

Wacs Programming Guide

Seventh Edition

for WACS 0.8.6

B "Beaky" King Publication date 12th August 2011

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by B "Beaky" King for WACS 0.8.6

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Abstract

WACS is a tool for building Adult Web Sites; it is equally suitable for managing a private collection or building a commercial web site. It has many best of breed features including dynamic filtering, model catalogs, automatic download and powerful search engine. It comes with a powerful API (application programming interface) implemented in both Perl and PHP5 languages to allow web developers to leverage it's facilities from their own programs.

This book describes the application programming interface provided by WACS, and how to utilise it from perl and Php languages. It provides an extensive introductory tutorial with a large number of worked example programs as well as a complete API reference manual. Additionally it provides a schema reference for the WACS database tables as understanding the fields available to you is central to writing programs that utilitise it. The intended audience is web developers and WACS site managers who wish to tailor an existing WACS installation to meet their precise requirements; people merely wishing to use or manage an existing WACS installation may well find the default configurations provided suffice.

The WACS source code and other documentation and support tools can all be found at the WACS website at Sourceforge [http://wacsip.sourceforge.net/] and on the WACS page at Launchpad.net [https://launchpad.net/wacs/]. The WACS demonstration site can be found at PinkMetallic.com [http://www.pinkmetallic.com/] - the site will initially be free but a charge maybe applied later to help fund additional content. Commercial add-ons and support options can be purchased from Bevtec Communications Ltd, see their website at Bevtec Communications [http://www.bevteccom.co.uk/].

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Part I. WACS API Programming Tutorial

This part of the WACS Programming Guide is designed to introduce you to programming using the WACS API - examples will be given in both Perl and PHP5 dialects so you can choose to work in either language.

Chapter 1, Introduction

Chapter 2, *Basics: Getting Started*Chapter 3, *Using More Database Fields*

Chapter 4, Set Display Routines Chapter 5, The User Interface Toolkit Chapter 6, Wacs-PHP: The Skins

Chapter 1. Introduction

Overview

Welcome to WACS, Web-based Adult Content Server, a free software package for the management of material of an "Adult Nature" (or basically whatever euphermism for porn you prefer). It is web-based and can be used for the management of an existing collection, as a download manager, or as a back-end system for running a commercial adult web site. It is dramatically different from most other image gallery systems in that it understands photo sets and video clips as basic concepts, instead of single photographs. It also includes far more specialised tagging, source, relationship and attribute marking concepts than other more generalised systems. WACS' abilities in the areas of searching and dynamic filtering are really industry-leading in their power and flexibility.

About This Book

This electronic book, the WACS Programming Guide, is designed to act both as an introduction to programming with the WACS API in either perl or PHP, and as a reference volume for both the API itself and the database schema. This book assumes you already have a basic knowledge of programming in your choosen language (PHP5 or perl5) and have some understanding of databases and in particular SQL (Structure Query Language). Some familiarity with WACS at a user level would also be a distinct advantage, and I'd strongly recommend working through the companion user guide first - who knows it might give you some ideas about neat extra features you can add to your own site. All documentation for WACS is available both within the distribution and from the WACS Web Site at Sourceforge.net [http://wacsip.sourceforge.net/].

It is important to stress that *ALL* of the collection management tools are implemented in Perl and the PHP interface is an optional addition to, not an alternative to, the core Wacs system which is perl based. Given the relative youth of the WACS system, php5 has been selected for the implementation to save future porting efforts as it is expected that php5 or later will be the minimum common standard by the time Wacs reaches 1.0. There is no intention to support older dialects of php at this point.

As the WACS software package is Open Source, we're always looking for contributions; if you create a site design (or prototype for one) which you don't end up using, maybe you would consider donating it to the repository of sample *WACS Skins*. We can always substitute our own artwork into already written web application code.

About The Examples

For copyright/licensing reasons, the example images feature sets from photoshoots by the main developer of WACS (Beaky) and a friend of his. These sets are available for download from the WACS demonstration site at PinkMetallic.com [http://www.pinkmetallic.com/] - *CAUTION: contains adult material*! Access to this site is currently free but we may have to levy a small charge in the future if refferal and donations don't reach the hoped-for amount.

Chapter 2. Basics: Getting Started

Outline

In this chapter we're going to talk about the basic first steps in making use of the WACS API from your own programs. We're going to assume that you've got a WACS server you can use up and running; that you know where things are on it and that you have appropriate write access to the web document tree (if you're working in PHP) or the cgi-bin directory (if you're working in Perl). Hopefully you'll have both some models and a few image sets known in the WACS system to work with. For these first code examples, you could merely load the sample model profiles we've provided in the samples directory of the WACS distribution.

While the finished code of the sample programs featured here is available in the samples directory of the WACS Core distribution (for the Perl verion) or the WACS-php distribution (for the PHP5 version), you may wish to type it in as you go along as an aid to learning how to use the interface. If you do, we'd recommend calling this file mysimple for perl, or mysimple.php for PHP. For consistency, we're going to put the PHP dialect first and then the Perl dialect in each of the examples.

The basic structure of your first WACS application will consist of five steps; these are:

- 1. import the WACS API modules
- 2. read configuration and check access rights
- 3. initialise the database connection
- 4. run an appropriate database query
- 5. retrieve records and display them

A First WACS Program

Modules: Importing

The very first step is to import the WACS API modules into your program file along with those standard modules needed to access the database. These files should be in the right location already and should just be found without any additional specification of where they are.

Example 2.1. WACS Module Import

```
require_once "wacs.php";
require_once "DB.php";
$wacs = new Wacs;
```

The same code segment implemented in perl looks like:

```
use Wacs;
use DBI;
```



Note

The PHP interface requires an *Object Handle* to use when accessing the WACS module which we're simply calling \$wacs. Perl doesn't need such a construct - there is simply the one instance.

Configuration And Security

The second step is to read the standard WACS configuration file to find out where everything is, and then check that this user is allowed to access the WACS system. This is a two step process, and the reading of the configuration file must be done first; otherwise WACS doesn't know where to look for the security files it needs to determine whether this user should be given access or not.

Example 2.2. Config and Security

```
// read the Wacs configuration files
$wacs->read_conf();

// check the auth(entication and authorisation) of this user
$wacs->check_auth( $_SERVER['REMOTE_ADDR'], 1 );

and here is the same thing again in the perl dialect:

# read the Wacs configuration files
read_conf;

# check the auth(entication and authorisation) of this user
check_auth( $ENV{"REMOTE_ADDR"}, 1 );
```

Initialising Database Connection

The third step is to initialise the database connection. Since some databases require an environment variable to determine where their configuration files have been stored, this needs to be set first. Wacs provides for this and this code will create that environment variable, if needed, and then proceed to establish the database connection itself.

Example 2.3. Database Connection Initialisation

```
// database initialisation
// - establish environment variable
$dbienv = $wacs->conf_get_attr("database","dbienvvar");
if( ! empty( $dbienv ))
        putenv($dbienv."=".$wacs->conf_get_attr("database","dbienvvalue"));
// - connect to the database
$dbhandle= DB::connect( $wacs->conf_get_attr("database","phpdbconnect") );
if( DB::iserror($dbhandle))
        die("Can't connect to database\nReason:".$dbhandle->getMessage."\n");
$dbhandle->setFetchMode(DB_FETCHMODE_ORDERED);
and here's how we do it in perl:
# database initialisation
# - establish environment variable
$dbienv = conf_get_attr( "database", "dbienvvar" );
if( $dbienv ne "" )
        $ENV{$dbienv}= conf_get_attr( "database", "dbienvvalue" );
# - connect to the database
$dbhandle=DBI->connect( conf_get_attr("database","dbiconnect"),
                        conf_get_attr("database", "dbuser"),
                        conf_get_attr("database", "dbpass") ) | |
die("Can't connect to database\nReason given was $DBI::errstr\n");
```

OK, let's just study this code for a moment. It first calls the WACS API function **conf_get_attr** with the section parameter of *database* as it wants database related configuration information, and an argument of *dbienvvar*. The WACS API function **conf_get_attr** is short for *configuration get attribute* and returns the value of the configuration file parameter of that name or it's default value. The dbienvvar means *database interface environment variable*. A typical value for this might be something like ORACLE_HOME which is the environment variable that Oracle 10g and 11i requires to be set in order to find it's current configuration.

The next line of the code checks to see if we got back an actual variable name (eg ORACLE_HOME) or an empty string (ie nothing). If we were given a valid variable name, then we're going to need to set it the value it should be, which again we can get from the configuration file, this time called dbienvvalue which is short for *database interface environment value* (as distinct from the *variable* name we just looked up). A likely value for this might be /usr/local/oracle. Obviously if we're given no variable name to set, there's no point looking for a value for it! Conversely we are assuming that having bothered to name the variable in the configuration file, also put in a valid value for it - this code could break if the variable name is specified but not it's value.

The second section of these code segments is to do with the establishment of a connection to the database and is a little different between the two versions. Both systems use a handle for the database connection,

which we call \$dbhandle - imaginative name huh? In both cases, the respective database APIs provide a **connect** function which takes an argument of how to connect to the database. The Php version takes a single argument, which is stored in our configuration files as phpdbconnect and includes the whole username, password and database specification in a single lump. The Perl version asks for three: the database specification, the username and finally the password. The configuration file knows these as dbiconnect, dbuser and dbpass respectively.

The final bit copes with putting out some kind of error message, at least showing the point of failure, if we are unable to establish a connection to the database. The methods are very slightly different, but the effect is very much the same between the two versions. We then just tell the PHP DB interface how we wish it to organise the returned data; the perl DBI default is pre-determined and is what we want.



Tip

Note that you might wish to have completed the output of the HTML header section and started the body by this point so that should the database connection fail, the error message will be visible.

Fetching Some Records

The next step in the process is to use the database connection we've established to actually make a request of the database. For now don't worry about what that request is or how we've written it - we'll come back to that topic in detail later in this chapter. Look at the mechanics of how we're issuing the request and getting back the results. What we're going to ask the database for is a list of those girls who are marked as *Favourite Solo* models. We chose this because both the models in our current samples directory are marked as this and so even if you only have our sample records loaded, you should find some matches.

Example 2.4. Database Query

The method is a little different in perl in that it is seperated into two steps; as a result it looks like this...



Note

The query structure is very similar between Php and perl apart for the two step process of validating and then seperately executing the query in perl. This is mostly down to different

traditions that exist for database accesses in each language. The net result is similar in technical terms and identical in output terms

In both cases we're putting together an SQL query that reads:

```
select mname, modelno, mbigimage, mimage
from models
where mflag = 'S'
order by mname
```

This query asks the database to fetch the four named items: mname, modelno, mbigimage, and mimage from the database table called models where the field mflag has a value of the capital letter S and to sort the results it returns to us by the value in the field called mname. It may not surprise you to learn that mname is the model's name, modelno is our reference number for her, mbigimage is the (location of the) large size headshot of her and mimage is the (location of the) smaller size headshot of her.

You may have noticed that the only part of this that wasn't copied verbatim from the code is the from models bit and that there we've used the WACS API call **conf_get_attr** to get the actual name of the database table concerned from the main WACS configuration file. This is actually important and it's strongly recommended that you do use this form when creating SQL queries. If you really insist on knowing why, take a look at the section on the tables part of the wacs.cfg configuration file in the WACS configuration guide.

Once we've created the SQL query, we feed it to the database routines. The first step is to pass in the SQL query and have the database perform that search on the database. Once the query has been executed, we want to pull back the matching records (or rows in database parlence) for each model. In both Php and Perl we're calling a routine that returns to us a single row from the database (a single model's record in this case) each time it's called. When we run out of records, a null return is given and our while loop ends. In Php, the function to do this is called using fetchRow which returns the next row as an array of values, which we assign into the variable \$results each time. In Perl, the function we're using is called fetchrow_array because perl offers us a choice in the type of data we are returned and in this case we want a numerically indexed array.



Note

There are other approaches to getting back the data, including having it returned in one big lump (such as with the Php call getAll()) - this has been avoided as some WACS installations might have tens of thousands of matching records for some queries.

Showing The Results

The final step is to actually generate some output from the data we've fetched from the database. We're going to do this as an unordered list in HTML, so we're going to be adding a little formating to the output as we retrieve each record.

Example 2.5. Outputing The List

We start off by printing out the HTML instruction to start an unordered list () in a line on it's own. We then start a while loop which goes through each entry until it's done them all. Both versions use the database cursor object (\$cursor) to fetch the next record (aka row) from the database using the **fetchRow** or **fetchrow_array** method and assigning it into the array \$results (or in perl @results). The act of the assignment fails when there are no more records to fetch and the while loop will terminate. The construct here is based upon the fact that both languages have seperate operators for assignment (=) and comparison (== and eq) and so the code is unambiguous (at least to the php and perl interpreters it is!).

Once inside the body of the while loop we print out the start of list entry tag () and start in on making use of the data. In the quest to make this example a little bit more satisfying, we've tried to make sure this application does something vaguely useful. A simple list of names is all well and good, but we wanted it to actually *do* something! So what we've done here is to create a link around each models name that points to her model page as displayed by the standard WACS tools. The raw HTML to achieve this would look like:

```
<a href="http://www.mywacsserver.com/cgi-bin/wacsmpthumbs/123">
Sarah</a>
```

So we're left with a slight problem here in that we don't know in advance (trust me on this) what the WACS server is called, we don't know what the models are called and we don't know what their numbers are. We have no idea if we have a model number 123 or not and whether she's called Sarah; but the WACS system should be able to fill in all the blanks for us.

The first part of the code merely prints out the start of the HTML href="> and then we ask the WACS configuration system what it's externally visible URL for cgi-bin programs is. We do this using the conf_get_attr call again, telling it we want an answer in the section server of the URL for cgi scripts aka cgiurl. On the next line of the example we put the name of the WACS application we want to link to, in this case wacsmpthumbs. Since the way we tell wacsmpthumbs what we want it to look up is to add a slash and then the model number to the URL, we add a slash (/) on the end and then the number.



Tip

You may have noticed that we added a comment on the line above the SQL select statement with 0,1,2,3 with each number above the field name in the query. This was a shorthand to ourselves to remind us what the index number in the array is for each of those database fields.

Since the order of the fields we asked for was mname, modelno, mbigimage and then mimage, the results in the array will be the same - element 0 will be the mname, element 1 will be the model number, and so on. In both cases we're dealing with a single-dimensional array. The first field we want to go into the URL for **wacsmodelthumbs** is the model number, so that will be element 1 (not zero) therefore we write \$results[1]. We then finish off the URL reference by closing the quotes (") and the > tag.

We then want to print the model's name which will be element 0 in our arrays, put out the closing anchor tag () and then finish off the unordered line entry with the end line tag (). We then print out a new line so the generated page is easier to read. The moving on to the next record will be done as a byproduct of the test for the next iteration around the while loop. Once we exit the loop, we finish off the HTML unordered list.

Finishing Off

To just finally finish it off, we need to add a few more pieces just to make it work. For the Php version, we need to declare it as being a php program with <?php at the very start of the file, with a matching ?> at the very end. For perl, we need to declare it as a perl script with the very first line being just #!/usr/bin/perl. Additionally for perl, we need to output the mime content type declaration so that the web browser knows what kind of object it's being passed - this is done simply with:

```
print "Content-Type: text/html\n";
print "\n";
```

Next we need a couple of lines of HTML preamble near the beginning (as mentioned before, just before the database connection code so we could see any error message that appears):

```
<html>
<head>
<title>MySimple: Index Of Favourites</title>
</head>
<body>
```

Similarly at the end, we just need to finish the page off with the html tail piece:

```
</body>
```

Putting It All Together

With all the components in place, let's review the new MySimple WACS program in it's entirety. We include the modules, initialise the configuration system, check the authorisation, connect to the database, draft the query, submit it and then loop through the results. Not really that complex now we know what each part does. Anyway here's the finished code....

Example 2.6. Php: Complete Simple Program

```
<?php
// MySimple - sample WACS API program (PHP5)
require once "wacs.php";
require_once "DB.php";
$wacs = new Wacs;
// read the Wacs configuration files
$wacs->read_conf();
// check the auth(entication and authorisation) of this user
$wacs->check_auth( $_SERVER['REMOTE_ADDR'], 1 );
// start the HTML document
print "<html>\n";
print "<head>\n";
print "<title>MySimple: Index Of Favourites</title>\n";
print "</head>\n";
print "<body>\n";
// database initialisation
// - establish environment variable
$dbienv = $wacs->conf_get_attr("database","dbienvvar");
if( ! empty( $dbienv ))
        putenv($dbienv."=".$wacs->conf_get_attr("database","dbienvvalue"));
// - connect to the database
$dbhandle= DB::connect( $wacs->conf_get_attr("database","phpdbconnect") );
if( DB::iserror($dbhandle))
        die("Can't connect to database\nReason:".$dbhandle->getMessage()."\n");
$dbhandle->setFetchMode(DB_FETCHMODE_ORDERED);
// do db select
                                  2
//
                         1
$query = "select mname, modelno, mbigimage, mimage from ".
         $wacs->conf_get_attr("tables", "models").
         " where mflag = 'S' order by mname";
$cursor = $dbhandle->query( $query );
// output the results
print "\n";
while( $results = $cursor->fetchRow() )
       print "";
        print "<a href=\"".$wacs->conf get attr("server","cgiurl");
        print "wacsmpthumbs/".$results[1]."\">";
        print $results[0]."</a>\n";
print "\n";
// finish off
print "</body>\n";
print "</html>\n";
?>
```

Example 2.7. Perl: Complete Simple Program

```
#!/usr/bin/perl
# MySimple - Sample WACS Program (Perl)
use Wacs;
use DBI;
# read the Wacs configuration files
read conf;
# check the auth(entication and authorisation) of this user
check auth( $ENV{"REMOTE ADDR"}, 1 );
# output the HTML headers
print "Content-Type: text/html\n";
print "\n";
print "<html>\n";
print "<head>\n";
print "<title>MySimple: Index Of Favourites</title>\n";
print "</head>\n";
print "<body>\n";
# database initialisation
# - establish environment variable
$dbienv = conf_get_attr( "database", "dbienvvar" );
if( $dbienv ne "" )
 $ENV{$dbienv}= conf_get_attr( "database", "dbienvvalue" );
# - connect to the database
$dbhandle=DBI->connect( conf_get_attr("database","dbiconnect"),
                        conf_get_attr("database","dbuser"),
                        conf_get_attr("database", "dbpass") ) | |
die("Can't connect to database\nReason given was $DBI::errstr\n");
# do db select
$query = "select mname, modelno, mbigimage, mimage from ".
          conf_get_attr("tables", "models").
          " where mflag = 'S' order by mname";
$cursor = $dbhandle->prepare( $query );
$cursor->execute;
print "\n";
while( @results = $cursor->fetchrow_array )
        print "";
        print "<a href=\"".conf_get_attr("server", "cgiurl");</pre>
        print "wacsmpthumbs/".$results[1]."\">";
        print $results[0]."</a>\n";
print "\n";
# finish off
print "</body>\n";
print "</html>\n";
```

Running MySimple

Our first WACS application is now complete, so copy the file into the either the web server document tree (for Php) or the web server cgi-bin directory (for perl). When you call up the URL, you should see something like this....

- Roxanne
- Sabrina

Granted it's fairly plain, but the names are in alphabetical order and there are links on each name to that girl's model page. If you didn't see any output, or got an error, you need to check the error log for the server you're using. With Apache on linux, the usual location of this is /var/log/httpd/www.mywacserver.com-errorlog or something similar to that.

Reviewing The First Program

This has been a fairly long and intense chapter, but we obviously had a lot of ground to cover and we really wanted to achieve a usable program before the end of it. This hopefully we've done. We've seen how to include the WACS module and the Database interface module. We've seen how to use **read_conf** and **check_auth** to read the configuration files and check the user's credentials. We've then made multiple uses of **conf_get_attr** to get all of the information together we need to make a connection to the database.

After all that setup procedure, which will become a very familiar template as you program with the WACS API, we looked at creating and sending a query to the database, retrieving the results and formating those results as a simple web page. In the next chapter, we'll look at how to make use of other information stored within the database.

Chapter 3. Using More Database Fields

Adding Model Icons

In the simple example in the last chapter, we saw how to create a list of model's names with hypertext links on each name to that model's standard WACS model page. Obviously that's not a particularly presentable page by itself, so the next step is to add a head shot for each model to the links.

We actually already paved the way for doing this by including the two headshot image fields in the results we asked for from the SQL query - if you remember, we put:

```
select mname, modelno, mbigimage, mimage
```

Since we have the data already, all we need to do now is to add a few extra statements to the output section to output an appropriate image tag and we'll have included the model's headshot too. We have a configuration attribute in the **server** section of the configuration file called **siteurl** that tells us where the site specific WACS web elements area can be found on the WACS server. Standard size model headshots are conventionally found in the icons/directory directly below the top level. So all we need to do is add in a call to **conf_get_attr** to get it and build the appropriate HTML img tag. In PHP we'd write:

```
print "<img src=\"".$wacs->conf_get_attr("server","siteurl");
print "icons/".$results[3]."\" alt=\"[".$results[0]."]\">";

and in perl we'd write:

print "<img src=\"".conf_get_attr("server","siteurl");
print "icons/".$results[3]."\" alt=\"[".$results[0]."]\">";
```

this needs to be done just below the line that establishes the link to the model's WACS model page, but before her name (you could put it after if you prefer) and closing .

Example 3.1. Modified Output Loop with Icon Code

```
while( $results = $cursor->fetchRow() )
{
    print "";
    print "<a href=\"".$wacs->conf_get_attr("server","cgiurl");
    print "wacsmpthumbs/".$results[1]."\">";
    print "<img src=\"".$wacs->conf_get_attr("server","siteurl");
    print "icons/".$results[3]."\" alt=\"[".$results[0]."]\">";
    print $results[0]."</a>
}
and in perl this now looks like:

while( @results = $cursor->fetchrow_array )
{
```

```
print "";
print "<a href=\"".conf_get_attr("server","cgiurl");
print "wacsmpthumbs/".$results[1]."\">";
print "<img src=\"".conf_get_attr("server","siteurl");
print "icons/".$results[3]."\" alt=\"[".$results[0]."]\">";
print $results[0]."</a>\n";
}
```

We then copy up the modified version of the program and run it and we should see something like this:



More Model Information

The WACS database does of course carry far more information about the model thank just her name and icons, so for the next step we're going to look at adding a few basic pieces of information about her to each entry. The first step is to add some additional fields to the list of what we want returned by the SQL query. Initially we're going to add another five fields: they are mhair, mlength, mtitsize, mnsets and mnvideos. These database fields give us her hair colour, length, the size of her breasts and the number of images sets and videos we have by her respectively. The modified version of the query looks like:

Example 3.2. Modified SQL command for more Model Info

in php.



Note

We've added a second line of comments with the element numbers within the array that the returned database field will appear in; mlength will be index 5 for instance.

The same code in perl will look like:

Using HTML tables

The next step is to modify the display loop to include the extra details and in this case it probably makes sense to switch to using an HTML table cell to contain and manage the entry. We'll start off by simply re-writing the existing display loop to build the results into an HTML table instead - once we have that working, we'll restyle the table to include the extra fields we just added to the query. There is no actual requirement to make use of all the fields we've requested.

Lets have a look at the structure of the HTML document we're outputing here: First we need to open the new table, then each model will have her own row as we go through with the headshot image on the left and her name on the right, and finally we'll finish off the table. The HTML (minus the links) to do this will look something like:

```
<img src="icons/Roxanne-1.jpg" alt="[Roxanne]">
Roxanne

<img src="icons/Sabrina-1.jpg" alt="[Sabrina]">
Sabrina
```

Of course the next step is to re-write the code to actually recreate the necessary HTML; the start and end of the table simply replace the unordered list (and) tags outside the loop that iterates through the list of models returned by the database. The list element (and) tags get replaced by the row start and end tags (and . Since we're puting the headshot icon and the name in separate elements and want a link to the appropriate model page on both of them, we need to double up the code that creates the hypertext link to wacsmpthumbs. We then include the icon (with alignment attributes) in a standard table tag (and the name in a heading (ta) table tag so it comes out in bold and is centred.

The mysimple example thus re-writen will look like:

Example 3.3. New version of the loop using tables

```
// output the results
print "\n";
while( $results = $cursor->fetchRow() )
       // start the HTML table row
       print "\n";
       // link around the headshot image
       print "<a href=\"".$wacs->conf_get_attr("server","cgiurl");
       print "wacsmpthumbs/".$results[1]."\">";
       // head shot image
       print "<img src=\"".$wacs->conf_get_attr("server","siteurl");
       print "icons/".$results[3]."\"[".$results[0]."]\"></a>\n";
       // end this cell and start the next
       print "\n";
       // link around name
       print "<a href=\"".$wacs->conf_get_attr("server","cgiurl");
       print "wacsmpthumbs/".$results[1]."\">";
       // the name
       print $results[0]."</a>\n";
       // end the HTML table row
       print "\n";
print "\n";
// finish off
and re-writing the same function in perl gives us something like:
# output the results
print "\n";
while( @results = $cursor->fetchrow_array )
       # start the HTML table row
       print "\n";
       # link around the headshot image
       print "<a href=\"".conf_get_attr("server","cgiurl");</pre>
       print "wacsmpthumbs/".$results[1]."\">";
       # head shot image
       print "<img src=\"".conf_get_attr("server", "siteurl");</pre>
       print "icons/".$results[3]."\"[".$results[0]."]\"></a>\n";
       # end this cell and start the next
       print "\n";
       # link around name
       print "<a href=\"".conf_get_attr("server", "cgiurl");</pre>
       print "wacsmpthumbs/".$results[1]."\">";
       # the name
       print $results[0]."</a>\n";
       # end the HTML table row
       print "\n";
print "\n";
```

finish off

When run, this modified version of the script should produce the following:



Roxanne



Sabrina

As you can see, this has improved the layout somewhat over the previous version using just unordered list elements. Now to add those extra fields....

Adding The Model Details

To display some more details about the model, we're going to span the headshot on the left hand side over several rows, and add the model details themselves as additional table rows on the right hand side. Our first change therefore is to add rowspan=4 to the options on the image container tag. The resulting php code is:

```
// start the HTML table row print "\n"; // link around the headshot image
```

and in perl reads:

```
# start the HTML table row
print "\n";
# link around the headshot image
```

Next we add the second row which will include her hair colour and length, then a third row which will describe her breast size and the fourth row that gives the number of image sets and the number of videos we have for her.

Example 3.4. Adding Model Information

```
// end the HTML table row
print "\n";
// do the second row (her hair)
print "hair: ";
print $results[5]." ".$results[4];
print "\n";
// do the third row (her breasts)
print "breasts: ";
print $results[6]."\n";
print "\n";
// do the fourth row (her sets)
print "sets: ";
print $results[7];
if( \$results[8] > 0 )
      print " videos: ".$results[8];
print "\n";
```

and the same implemented in perl would look like:

```
# end the HTML table row
print "\n";
# do the second row (her hair)
print "hair: ";
print $results[5]." ".$results[4];
print "\n";
# do the third row (her breasts)
print "breasts: ";
print $results[6]."\n";
print "\n";
# do the fourth row (her sets)
print "sets: ";
print $results[7];
if( \$results[8] > 0 )
      print " videos: ".$results[8];
print "\n";
```

With these changes made, if you now run this version of the program, which is called **mysimple4** in the samples/programming directory, you should see something like this:



Roxanne

hair: Long Dark Hair

breasts: Small

sets: 8 videos: 1



Sabrina

hair: Shoulder Blonde

breasts: Small

sets: 5

There's obviously a lot more room for using many more of the fields within the model schema for further improvement of our model index, and we'll return to this subject in a later chapter (Chapter 5, *The User Interface Toolkit*). Before we leave the topic of models and move on to sets, we will cover just one more topic, that of adding rating icons.

Adding Other Icons

One of the significant features of WACS is its ability to include various attribute icons within pages to make specific aspects and attributes easier to recognise. While many of them need some additional logic to handle their display, a few of them like the model's rating and country of origin are actually fairly simple to use. We're going to take a quick look at how we'd use the WACS API to include the rating icons before moving on to look at how we handle sets. We will return to the more complex cases later when we look at the User Interface toolkit API.

For the model's rating, we need the field called mrating so the first step is to add this to the list of fields that we select from the database:

and in perl the change makes this section read:

```
# do db select
# 0 1 2 3 4
```

```
$query = "select mname, modelno, mbigimage, mimage, mhair, ".

# 5 6 7 8 9

" mlength, mtitsize, mnsets, mnvideos, mrating ".
    "from ".conf_get_attr("tables", "models").
    " where mflag = 'S' order by mname";

$cursor = $dbhandle->prepare( $query );
$cursor->execute;
```

With the rating field now in the data returned to us by the database, we can move down and update the display section to make use of it. The first step needed is to change the rowspan setting from 4 to 5 to accommodate the extra line of output.

```
// start the HTML table row
print "\n";
// link around the headshot image
and in perl...

# start the HTML table row
print "\n";
# link around the headshot image
```

The final step is to add the processing of the mrating field. All WACS icons are typically stored in the glyphs/ directory which is within the web server document tree. To find its exact URL, you use the conf_get_attr function to retrieve the value iconurl in the section server. Within this directory, you will find five files called rating-1.png through rating-5.png which look like this:



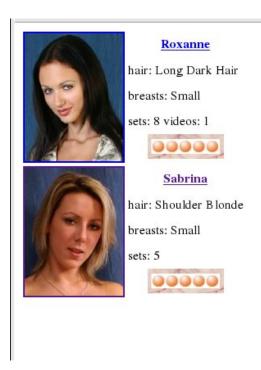
To make use of this we need to first test our data to see if we have a valid ratings value at all, then merely concatinate a string to create the necessary icon reference. In php, this will look like this:

Example 3.5. Adding A Rating Icon

```
print "\n";
// add the rating icon (if we have a value)
print "";
if( $results[9] > 0 )
{
          print "<img src=\"";
          print $wacs->conf_get_attr("server","iconurl");
          print "rating-".$results[9].".png\">";
          print " alt=\"[".$results[9]." out of 5]\">";
}
else
{
          print "no rating";
}
print "
```

while the same example in perl, would look like this:

Once you've put in these three changes, you can run the resulting script and expect to get an output something like this:



At this point we're hopefully beginning to get a rather more satisfying display of model details. Obviously there are many other tweaks we might like to add, and we'll return to some of those later on when we look at the User Interface Toolkit and the routines that provides. There is however one more thing we really should cover now - what happens when something goes wrong.

Improving Error Reporting

One of the most important things in good website engineering is ensuring that when things fail, it's handled gracefully with some kind of reasonable error message returned to the user, and that the event is logged properly in the system error logs. There are basically four ways in which a WACS application is likely to fail - authentication, failure to parse the configuration files, and failure to connect to the database, and failure to find the content.

The authentication failure is pretty conclusively covered by the core WACS check_auth function and it's partners. The parser is rather more tricky to cope with, and the XML parse routines tend to just abortit's also very all or nothing; the file parses or it doesn't. Additionally once a configuration file is in place, it's unlikely to become corrupted; if it's merely disappeared the defaults will be used and the system will most likely have problems at the next stage of connecting to the database. The third is connecting to the database, which we'll deal with in a moment. The fourth, failure to find content, doesn't result in completely blank screens and should get reported to you quite quickly. Additionally there are so many places it could be (raid parition, lvm volume, remote fileserver) that we can't really do much in a general way.

Where we can get some traction is with decent reporting of database connection problems, and this where the dberror function comes into play. Previously, if we failed to connect to the database we did the following in php:

To improve this, we're going to change this (called **mysimple6** in the example code) to use the dberror function instead. This is a routine that uses named parameters, a technique we'll see a lot more of later as we use the WacsUI programming library. Basically we pass it up to five arguments or parameters, but we tell it what each one is, thus the order doesn't matter and if any of them are missing, it doesn't affect the values of the others. The dberror routine expects parameters called: **header**, **message**, **error**, **dbuser** and **dbhost**.

The **header** is to tell the routine how early in the proceedings we are and whether we still need to start the HTML of the web page. Setting **header** to y says we do want a header added, setting it to n says we don't. The next one, **message** is the message that the end user will see. The next three are the error message returned by the database routines, the username it was trying to use, and the database connect string it was trying to use. Here is the code for doing this in PHP5:

Example 3.6. Calling dberror for better error reporting

while the same basic code in perl looks a little simpler because the parameter names don't need to be *packaged up* into an array before they're passed:

With the error reporting improved, we'll move on to other things. We'll continue to use the short form version of the error message for brevity in the later examples, but you'll know that you probably want to actually use dberror in most cases. Next up, we'll take a look at displaying set details rather than those of models....

Chapter 4. Set Display Routines

About Set Display

So far we've looked at displaying the information in the models table in the database, but of course there is also the small matter of sets without which whole thing wouldn't have much point. In this chapter we're going to look at displaying details of the sets, and then towards the end of the chapter, how to tie models and sets together.

In most of these examples, we're going to use the standard WACS tools to actually display the details of the sets themselves, but you can of course write your own web apps to do this should you wish to. In most cases we'll throttle the examples to only show a first few sets from the databases and assume you'll develop your own strategies for paginating and sub-dividing the sets in real world applications.

Sets: The Basic Bones

Since we're starting a new application, we'll start from scratch with the basic bones which we'll call **setdisp**. Much of the basic structure of this program should be getting quite familiar by now. The same five basic steps are to be found here - bring in the modules, initialise them, set up the database connection, submit the query and loop through the results outputting them.

What we're setting out to do in this script is to display a list of the latest additions of image sets marked as being of category flag type T which means they're solo sets involving toy usage. This we achieve by requesting only sets of type I which means image sets and of category flag type T.



Tip

The full lists of recommended values for the type and category flag can be found in the schema reference section at the back of this book in Chapter 11, *Schema Reference: Sets*.

The basic format is that we once again create an HTML table with a row for each record. There's a link on the name of the set that leads to the standard WACS page display program **wacsindex**. This takes a number of URL arguments but the one we're using here is to prefix the set number with page which puts it into paged display mode and appended with a .html so that it saves correctly and in some cases will get cached. We're shrinking the font in which it's displayed as it can be quite a long line of text in it's stored form (but more on that topic later).



Note

The SQL query itself looks after the ordering of the output; the order by sadded desc retrieves the entries in the reverse order in which they were added - the database field sadded being the date the set was added to the database, and the desc (meaning descending) puts the biggest value first. In this case that is the most recent date...

Example 4.1. The Basic SetDisp Program

```
<?php
// setdisp - set display program
require_once "wacs.php";
require_once "DB.php";
$wacs = new Wacs;
$wacs->read conf();
$wacs->check_auth( $_SERVER['REMOTE_ADDR'],1 );
// start the document
print "<html>\n";
print "<head>\n";
print "<title>SetDisp - List of Sets</title>\n";
print "</head>\n";
print "<body>\n";
// connect to the database
$dbienv = $wacs->conf_get_attr("database","dbienvvar");
if( ! empty( $dbienv ) )
        putenv($dbienv."=".$wacs->conf_get_attr("database","dbienvvalue"));
$dbhandle = DB::connect( $wacs->conf_get_attr("database","phpdbconnect"));
if( DB::iserror($dbhandle) )
        die("Can't connect to database\nReason:".$dbhandle->getMessage()."\n");
$dbhandle->setFetchMode(DB_FETCHMODE_ORDERED);
                        1
$query = "select setno, stitle, stype, scatflag, simages, scodec ".
         "from ".$wacs->conf_get_attr("tables","sets")." ".
         "where stype = 'I' and scatflag = 'T' ".
         "order by sadded desc ";
$cursor = $dbhandle->query( $query );
print "\n";
$setcount=0;
while( (($results = $cursor->fetchRow()) &&
        ($setcount < 25 )) )
        // start the row
       print "\n";
       // create the link
       print "<a href=\"".$wacs->conf_get_attr("server","cgiurl");
       print "wacsindex/page".$results[0].".html\">";
        // print out the set name
       print "<font size=-2 face=\"arial,helv,helvetica,sans\">";
        print $results[1]."</font></a>\n";
        // end the row
       print "\n";
        $setcount++;
print "\n";
print "</body>\n";
print "</html>\n";
?>
```

and implementing the same code in perl gives us:

```
#!/usr/bin/perl
# setdisp - set display program
use Wacs;
use DBI;
read conf();
check_auth( $ENV{'REMOTE_ADDR'},1 );
# output the HTML headers
print "Content-Type: text/html\n";
print "\n";
print "<html>\n";
print "<head>\n";
print "<title>SetDisp - List of Sets</title>\n";
print "</head>\n";
print "<body>\n";
# connect to the database
$dbienv = conf_get_attr("database","dbienvvar");
if( $dbienv ne "" )
        $ENV{$dbienv}= conf_get_attr( "database", "dbienvvalue" );
$dbhandle=DBI->connect( conf get attr("database", "dbiconnect"),
                        conf_get_attr("database","dbuser"),
                        conf get attr("database", "dbpass") ) | |
die("Can't connect to database\nReason given was $DBI::errstr\n");
                         1
$query = "select setno, stitle, stype, scatflag, simages, scodec ".
         "from ".conf get attr("tables", "sets")." ".
         "where stype = 'I' and scatflag = 'T' ".
         "order by sadded desc ";
$cursor = $dbhandle->prepare( $query );
$cursor->execute;
print "\n";
$setcount=0;
while( (($results = $cursor->fetchrow_array ) &&
        ($setcount < 25 )) )
        # start the row
        print "\n";
        # create the link
        print "<a href=\"".conf_get_attr("server", "cgiurl");</pre>
        print "wacsindex/page".$results[0].".html\">";
        # print out the set name
        print "<font size=-2 face=\"arial,helv,helvetica,sans\">";
        print $results[1]."</font></a>\n";
        # end the row
        print "\n";
        $setcount++;
print "\n";
print "</body>\n";
print "</html>\n";
```

When we run this set against our demonstration web server, we get the following output which is a list of the sets containing dildo use in most-recent first order.

```
Sabrina BlackTopGreySkirtPinkBraPanties WhiteBedDildoPussyClip
Roxanne RedWhiteTuftsSeeThruBabyDollDressMatchingPanties WhiteSofaRopeLightsChristmasTreeDildo
Sabrina CyanSeeThruLingerieTopWhiteStockingsNoPantiesWhiteSofaDildo
Roxanne BrownLeopardPrintBraMatchingPantiesWhiteDoubleBedDildo
```

Adding Icons

While it works and is usable, it's not exactly the greatest web page ever, so let's try and brighten it up a little. It'd be quite nice to be able to include an icon, and of course wacs has the infrastructure to do this for us. In fact, it offers us three different options of what size of icons we'd like: set, std and mini. In this case since we're trying to get a fair number of entries shown, we'll opt for the mini version. We get this by calling the **wacsimg** command and specifying that we'd like the mini version.

To make this happen we need to add another cell to the table with the HTML img tag pointing at wacsimg. As before we'll specify both align and valign properties for this table cell. So if we modify the code, much as we did before for the model icons, we get the following in php:

Example 4.2. Adding A Set Icon

```
// start the row
print "\n";
// create the link for the icon
print "<a href=\"".$wacs->conf_get_attr("server","cgiurl");
print "wacsindex/page".$results[0].".html\">";
// add the icon itself
print "<img src=\"".$wacs->conf_get_attr("server","cgiurl");
print "wacsimg/mini".$results[0].".jpg\" alt=\"[icon for ";
print $results[0]."]\">";
// end cell, next cell
print "\n";
// create the link
```

and of course the same example in perl looks like:

```
# start the row
print "\n";
# create the link for the icon
print "<a href=\"".conf_get_attr("server","cgiurl");
print "wacsindex/page".$results[0].".html\">";
# add the icon itself
print "<img src=\"".conf_get_attr("server","cgiurl");</pre>
```

```
print "wacsimg/mini".$results[0].".jpg\" alt=\"[icon for ";
print $results[0]."]\">";
# end cell, next cell
print "\n";
# create the link
```

and if we run the resulting program, we get something like this:



Sabrina BlackTopGreySkirtPinkBraPanties WhiteBedDildoPussyClip

 $Roxanne\ RedWhite Tufts See ThruBaby Doll Dress Matching Panties\ White Sofa Rope Lights Christmas Tree Dildo$

Sabrina Cyan See Thru Lingerie Top White Stockings No Panties White Sofa Dildo

Roxanne BrownLeopardPrintBraMatchingPanties WhiteDoubleBedDildo

Making The Text More Readable

One of the design decisions taken when designing WACS was to encourage directory names to be the same as the set names, and to make those more usable outside of the WACS system, to make them not include spaces. Instead the so-called *Camel Technique*, so named because of all the humps in it, where an upper case letter signifies the start of each new word. This is used along with a technique where underscores (_) act as the transitions between the three sections of the set name: these are:

- 1. Model or Models name(s)
- 2. Her Clothing
- 3. Location and Action

However the underscore aspect is only used in the directory name and not in the set title (field stitle) as stored in the database which has spaces instead. Amongst our tasks, we will need to replace the spaces with the appropriate HTML table tags.

Fortunately we can use a regular expression to convert the *Camel-Style* text back into something a little bit more readable. This next group of changes to the code are to do exactly that. We're going to take a slightly different approach from before as we're not going to make the split off parts into seperate HTML table cells. This is because that makes both the font setting and HTML link creation much more complex - we're merely going to insert a forced line break
br> tag into the places where we want a new line to start. Then we're going to break up the Camel-Style text into seperate words. We do this with:

Our first substitution is going to be to replace the spaces (the section dividers in the stitle field) with the appropriate HTML directives. The second and third ones actually break up the words at the points the case changes:

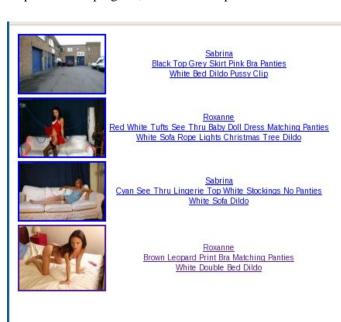
Example 4.3. Making Camel-Style Text Readable

```
// print out the set name
print "<font size=-2 face=\"arial,helv,helvetica,sans\">";
$prettytext = $results[1];
$prettytext = preg_replace('/\s/','<br>', $prettytext );
$prettytext = preg_replace('/(\w)([A-Z][a-z])/','$1 $2', $prettytext );
$prettytext = preg_replace('/([a-z])([A-Z])','$1 $2', $prettytext );
print $prettytext."</font></a>\n";
// end the row
```

To implement the same functionality in perl actually uses exactly the same regular expressions (aka *regexp*) but looks very different as it's all done in assignment operations without any explicit function call. There's no preg_replace used here. Anyway here is exactly the same functionality in perl:

```
# print out the set name
print "<font size=-2 face=\"arial,helv,helvetica,sans\">";
$prettytext = $results[1];
$prettytext =~ s/\s/<br>/g;
$prettytext =~ s,(\w)([A-Z][a-z]),$1 $2,g;
$prettytext =~ s,([a-z])([A-Z]),$1 $2,g;
print $prettytext."</font></a>\n";
# end the row
```

With these changes in place, we can once again copy over the code and we have a much more presentable output from the program; here's an example:



Hopefully with this we've got the output presentation of the sets list looking a whole lot better than it was in the first example. There are of course many more fields within the set database that we could also make use of in our pages. We will return to them when we look at the WACS User Interface Toolkit in Chapter 5, *The User Interface Toolkit*. For now, before we finish our look at sets, we're just going to look at how we find the model or models featured in a given set.

Connecting Sets And Models

Understanding The Data Architecture

One of the things that often confuses people about true relational databases is that they are unable to do a one-to-many or many-to-many relationship directly. While many so called *easy-to-use* databases do offer field types that purport to offer such linking, they are problematic and do not fit into any sensible logical model for how things should be structured. Worse, each vendor's implementation (those who do implement it at all) is different and incompatible. However with a sensible schema design, this limitation really isn't a problem at all.

One such instance of this need to link one-to-many is the concept of linking a set with a model within WACS. In the easy case, you'd have thought that you'd simply put the model number into one of the fields in the set schema and the job would be done. But what do you then do when you have two models featuring in a set; easy you might say - one is the main model, the other is a secondary model, so just add a second field for the additional model and put the second number there. Of course that then makes the SQL query more complex each time as you've got to check both fields before you know if a model is in a set or not. It still might work, but it's already getting cumbersome. You might discover a set first by virtue of the additional model and only afterwards identify the *official* primary model.

Just about every adult site we've encountered does feature at least a few sets with three models, so suddenly we're looking at a second additional model field and having to check that as well. And believe me, there are a few sites of which Sapphic Erotica comes to mind in particular where sets with three, four, five or even six models in a single set are relatively common. Simply put, adding models to the sets table just doesn't scale. So we take the proper relational database approach and add an additional schema called **assoc** for associations which gives us these relationships. It's a very simple schema, basically containing a primary key, a model number and a set number.

Using Relationships With Assoc

The process of finding out who is in a set becomes very simple and straight forward - you simply search the assoc table for the set number you're looking at. If we're looking for who is in set no 123, we simply use the following SQL query:

```
select amodelno from assoc
where asetno = 123
```

We then merely loop through the results of the above query and each record we find is another model involved in this set. If we don't get any results returned, then there aren't any models associated with this particular set. Of course we probably want more than just the model number(s), but that too is relatively simple. Consider the following query:

```
select modelno, mname, mimage, mbigimage
from models, assoc
where modelno = amodelno
  and asetno = 123
```

This query simply retrieves the model details for each model who is involved with this particular set, one record at a time. Due to the way relational databases are engineered, this is actually a very quick and

efficent process. The first line of the where clause does what is known as a *relational join* and establishes the necessary connection between the assoc and models tables necessary for what we're trying to do. Additionally it's a very logical and elegant solution that will cope with none, one, two, three, four or as many models as you like within a single simple action.



Note

Although we make use of the assoc table, we don't actually use any results from it - we don't need to - it has silently taken care of handling the connection we needed to make.

An Example Using Assoc

If we go back to our example program displaying sets, we can modify it to include this activity as a sub-routine. What we're going to do is to divide the right hand side of the output into the two cells, one with the title, and the other with the model(s) featuring in the set. The icon will remain on the left. First step is to add the rowspan attribute to the left hand side cell so the icon spans it.

Example 4.4. Modified Icon Cell

```
// start the row
print "\n";
// create the link for the icon
```

and in perl, it'll look very similar:

```
# start the row
print "\n";
# create the link for the icon
```

The next step is to create a new function to handle the query to look up the entries in the assoc table. We're going to call this function simply getmodel and it'll take just one argument, the set number for which we want the model(s) details. It will return to us a potentially quite long string variable containing all the model names that matched surrounded by a link to each model's WACS model page.



Note

So long as we use a different cursor variable to the database routines we can quite happily run another query and loop through it's results while inside an outer loop looking at the results of a completely different query. This is where the whole concept of a cursor becomes really useful.

Example 4.5. getmodel Subroutine

```
function getmodel ( $setno ) {
        global $dbhandle;
        global $wacs;
        $gmresult='';
                                       1
        $modelquery="select modelno, mname, mimage, mbigimage ".
                     "from ".$wacs->conf_get_attr("tables","models").
                     ", ".$wacs->conf_get_attr("tables", "assoc")." ".
                     "where modelno = amodelno ".
                     " and asetno = ".$setno." ".
                     "order by mname ";
        $modelcursor=$dbhandle->query( $modelquery );
        // loop through the results
        while( $modelresults = $modelcursor->fetchRow() )
                // do we need a divider?
                if( ! empty( $gmresult ))
                         $gmresult.="<br>";
                // add the model link
                $qmresult.="<a href=\"".$wacs->conf_get_attr(
                                 "server", "cgiurl"). "wacsmpthumbs/".
                                 $modelresults[0]."\">";
                // add her name and close link
                $gmresult.=$modelresults[1]."</a>";
        // return the complete string
        return( $gmresult );
and the same code implemented in perl looks like this:
sub getmodel( $ )
        my( $setno )=@_;
        my( $qmresult, $modelquery, $modelcursor, @modelresults );
        $gmresult='';
        $modelquery="select modelno, mname, mimage, mbigimage ".
                     "from ".conf_get_attr("tables", "models").
                     ", ".conf get attr("tables", "assoc")." ".
                     "where modelno = amodelno ".
                     " and asetno = ".$setno." ".
                     "order by mname ";
        $modelcursor=$dbhandle->prepare( $modelquery );
        $modelcursor->execute;
        # loop through the results
        while( @modelresults = $modelcursor->fetchrow_array )
```

The final step of this process is to add into our main loop going through the retrieved set records a call to the getmodel function. This looks like:

Example 4.6. Calling The getmodel Function

```
// next right hand cell
print "<font size=-1>\n";
print getmodel( $results[0] );
print "</font>\n";
// increment set count
```

and in perl this looks like

```
# next right hand cell
print "<font size=-1>\n";
print getmodel( $results[0] );
print "</font>\n";
# increment set count
```

With these changes incorporated into the code, we now have the finished version of the setdisp program (**setdisp4.php** or **setdisp4** in the samples directory. If we now copy this script up to the web server and run it, we should see something like this:



Once again we've gradually developed a program up to the point where it is now offering quite reasonable functionality and layout making use of the WACS programmers toolkit API. Hopefully this has given you an insight into what WACS is capable of and the basics of how to make use of it's API. In due course, we hope to have a respository of WACS skins, or mini-site scripts, which you can download and tailor to your own needs. If in the course of learning the WACS API you write some programs you'd be happy to share with others, please send them to us and we'll include them in the respository.

Chapter 5. The User Interface Toolkit

Introducing WacsUI

In this chapter, we're going to take a slightly different tack, we're going to just look at code segments you could choose to include within your application, primarily user interface components taken from the User Interface toolkit, WacsUI. This is not going to be an exhaustive review of what is available as that is covered in detail in the reference section, Chapter 8, WACS API: User Interface Module. Instead this is just a quick taster of just a few of the calls provided by the WacsUI toolkit.

So far we've been dealing with the various routines that are provided by the Core Wacs module - and these relate primarily to configuration parameters and security. There is a second module available for you to use called WacsUI, the WACS User Interface Toolkit. This concerns itself primarily with providing utility functions to ease the tasks of formatting and preparing data from the database into a form more suitable for use in web pages.

Including WacsUI support

To include support for the WACS User Interface (WacsUI) toolkit within your application, you need to add the following extra lines to your code, ideally just after the Wacs core module.

Example 5.1. WacsUI initialisation

```
require_once "wacsui.php";
$wacsui = new WacsUI;
and here's the perl dialect of the same activity...
use Wacs::WacsUI;
```



Note

NB: From Wacs 0.8.6, the WacsUI module now lives in a Wacs sub-directory and so needs to be called as **Wacs::WacsUI** instead of just **WacsUI**.

WacsUI: DescribeHer

The first function from WacsUI that we're going to look at is called **describeher** and it is designed to take the output of the very regemented values of the model attributes fields of the database and turn them into something much more readable. Although not implemented yet this provides a good mechanism for doing other translations or providing an attribute table rather than a textual description.

Example 5.2. Using WacsUI: describeher

```
print $wacsui->describeher(
    array( 'hair'=>$results[4],
    'length'=>results[5],
    'titsize'=>results[6],
    'pussy'=>results[7],
    'race'=>results[8],
    'build'=>results[9],
    'height'=>results[10],
    'weight'=>results[11],
    'occupation'=>results[12]))."\n";
```



Note

We have to *package up* our parameter list as an array in order to pass it in Php; perl is somewhat simpler with a simple sequence of named parameters.

```
print describeher(
    hair=>$results[4],
    length=>$results[5],
    titsize=>$results[6],
    pussy=>$results[7],
    race=>$results[8],
    build=>$results[9],
    height=>$results[10],
    weight=>$results[11],
    occupation=>$results[12] )."\n";
```

The above example is based upon modifying the MySimple example program from in the second chapter (Chapter 2, *Basics: Getting Started*) to add the following extra fields into the query: mhair, mlength, mtitsize, mpussy, mrace, mbuild, mheight, mweight, moccupation after the mimage (with a comma of course) and before the from clause.

The whatshedoes function

As with the previous describeher, whatshedoes is designed to make a readable sentence from a number of fixed format database fields. In this case however, it's a little different as the values passed in are typically either Y for yes, or N for no, and they are translated to a text phrase based upon what they're value is. This also means that if you're using array subscripts to fetch the database field values you need to be careful about positioning. Give a yes to the wrong field and the error will not be as obvious - while "blonde breasts" would be easy to spot, the fact that each model who did masturbation scenes was listed as doing straight scenes would be less apparent.

For the purposes of this example, we're adding yet more fields to the select statement in the original MySimple program shown in the second chapter (Chapter 2, *Basics: Getting Started*). In this case msolo, mstraight, mlesbian, mfetish, mtoys, mmast and mother.

Example 5.3. Using WacsUI: whatshedoes

The same function works just the same in perl without the need for the array declaration wrapper:

```
print whatshedoes(
  solo=>$results[13],
  straight=>$results[14],
  lesbian=>$results[15],
  fetish=>$results[16],
  toys=>$results[17],
  masturbation=>$results[18],
  other=>$results[19])."\n";
```

The addkeyicons function

Both the models and sets schemas feature fields that contain a space seperated list of keywords that mark certain attributes found within that set. These can be quickly turned into a small HTML table of icons using the routine addkeyicons. The fields suitable for use with this are scatinfo from the sets table and mattributes from the models table. These are passed as the first attribute; the second being the displayed size of the icons which for the default icons would be a maximum of 48 x 48 pixels. The function is called simply with:

Example 5.4. Using AddKeyIcons

```
addkeyicons( $results[16], 24 );
```

iconlink: WacsUI's Most Important Function

We're now going to take a look at **WacsUI** module's most important function, iconlink. It's job is simply to display and icon with an appropriate link around it. Sounds simple enough, doesn't it? Unfortunately it isn't - there's a lot of work that needs to be done relating to permissions, access methods, checking caches and resizing which actually makes it fairly complex. The good news is that the iconlink function will do it all for you!

The iconlink function takes quite a few arguments which control how it works, but they are reasonably straightforward. In most cases parameters are optional and sensible defaults will be used instead if they are not given - obviously things like set number and the location fields (sarea, scategory and sdirectory) are necessary.

Example 5.5. Using the iconlink function

The perl dialect is again very much the same:

WacsUI: Other Functions

Another example of using the wacsui module can be found in the **newsets.php** application in the samples directory. This is a more "real world" worked example showing a new releases index page; it makes use of both the iconlink and addkeyicons functions.

Detailed documentation on each call available and how it works can be found in the API reference section Chapter 8, *WACS API: User Interface Module*. Another good source of examples of how to utilise these functions is to be found in the section called "Wacs-PHP: The Simple Skin" provided as part of the Wacs-PHP API library. And of course don't forget that you can always look at how the main WACS user environment applications themselves make use of these functions.

Conclusions

We've now come to the end of the basic WACS API tutorial, at least for this edition of the WACS Programmers Guide. It is our intention to expand this section in future editions. Still, it has hopefully introduced you to the key concepts in making use of the WACS Programming API and given you some useful simple programs to build on when creating your own applications. The rest of this book consists of the WACS API reference manual and the WACS Database Schema Reference. If these do not provide sufficient information, please contact us via the methods listed on the WACS web site at SourceForge [http://wacsip.sourceforge.net].

Chapter 6. Wacs-PHP: The Skins

Introduction To PHP Skins

In previous chapters we've mentioned that the WACS Application Programming Interface (API) is available in both Perl and PHP5. We've also mentioned that many commercial web sites will choose to design their own web pages and will make use of the extensive WACS database infrastructure and utilities via the API from such pages. Other people may simply be interested in using it to tailor the presentation of their WACS site to their personal preferences.

With the Skins project, we go a step further by providing an alternative WACS-based web site written using the Wacs API for PHP5. This can serve one of two purposes - to provide a more complex set of example programs for web designers to study in order to familiarise themselves with how the APIs are used, or it can simply be restyled and personalised to provide a turn-key porn web site quickly and easily. In due course we hope people will contribute some sample pages of their own and there may be a choice of components to make the process easier. Initially we are providing just one skin known as *simple*. To aid both understanding and the ease of restyling, the Simple Skin is implemented using an external cascading style sheet separate from the HTML output generated by the php programs.



Note

The Wacs-PHP Simple Skin is still very much an under development project and only just became fully functional at 0.8.5. You can always dive in and help us make it even better!

Wacs-PHP: The Simple Skin

The provided simple skin consists of a number of small PHP5 programs and a single large style sheet shared by all the applications. The php programs are:

Table 6.1. Simple Skin: Components

Name	Description
index.php	The main menu of the simple skins site - equivalent to wacsfp in WACS itself
latest.php	The simple skins combined new models, new sets and new videos page - no direct WACS equivalent
girlie.php	The model page of the simple skins site - very loosely equivalent to wacsmpthumbs in WACS itself
directory.php	The Alphabetic directory of models - similiar to just one of the modes of wacsmodelthumbs in WACS itself
galleries.php	The index of galleries - a rather different approach from wacsshow in WACS itself. Focuses on indexing all the entries in a given top level area (sarea); to index the toplevels themselves, use movies.php below.
gallery.php	An individual gallery display - similiar to that produced by wacsimglist in WACS itself.
movies.php	A top level view of the galleries. Works for either images or videos despite the name.

Name	Description
photos.php	A photo set front page - similiar to wacsindex in info mode.
videos.php	The video clip version of the above.
search.php	The search system for the simple skin. This takes a very different approach from the search system in WACS core as it amalgamates both model and clip attributes into a single search engine.

Styling Wacs-PHP Skins

One of the design objectives of the Wacs-PHP skins project was to make it easy to restyle the pages to look very different without touching the code itself purely through use of Cascading Style Sheets. To this end each page has a large number of named **<div>** and **** directives placed throughout the generated pages to provide a framework for this to happen.

The first of these is that every page has a standard core structure to it which consists of three div elements with the following ids: <code>pagebanner</code> for the top heading, <code>navigation</code> for the menu links and <code>maincanvas</code> for the content itself. They will also always be featured in this order. You can of course choose to make them invisible or use javascript to toggle their visibility to make pull down menus and the like.

In addition to the core layout detailed above, there are also a number of div classes (because they often repeat) that are set on each type of icon that may be displayed. For set-based content, these are normmovietile and normimagetile for regular standard sized icons and for the smaller ones (but which are used heavily in the simple skin) imagesettile and moviesettile. For generic styling of the small icons there is also a span class of miniicon around the icon itself.

Moving on to Models, here too there are standard div wrappers around all instances of model icons allowing them to be styled. For the normal model headshot icon, there is a div of class modeltile around the icon block itself, with spans of classes iconmodel and iconmodelname around the icon itself and the text of her name respectively. Around the large model headshot you will find a div with the id of headshot in the **girlie.php** program which is the only place that Wacs-PHP uses the large format headshot.

WACS and Web 2.0

There's a lot of buzz in the IT industry at the moment about dynamic content on the web - also known as Web 2.0. This is where the web page changes what it displays immediately with each selection that you make. So far we've not seen much application of the technology on adult web sites, but as we rather pride ourselves on having the capabilities of the very best, we decided to go ahead and prove we can do it with WACS. The **modelsel.php** application introduced in WACS 0.8.4 is the first example of this. This application simply displays various icons related to hair colour, length, breast size, pubic hair style and now in Wacs 0.8.6 we've added complexion, body type and other attributes to it. As you click on these, the page updates with a selection of headshots that match the specified criteria.

The **modelsel.php** application itself is fairly simplistic and it's use of the underlying AJAX architecture has been re-engineered in Wacs 0.8.6 to make more effecient use of the AJAX system. We think it's an interesting and ground breaking application and plan to do something similar for sets. We've also used it as a showcase of how realitively easy it is to integrate php-based applications into the main perl based Wacs infra-structure as it shares the look and feel of the perl based apps.



Part II. WACS API Programming Reference

This is the API (Application Programming Interface) reference manual for the WACS environment. It documents the main API calls in both Perl and PHP dialects. There are now six operational modules available as part of the WACS system, plus a utility module used by the installers.

Table 2. The Key WACS Modules

WACS Module List		
name	part of	description
Wacs.pm	Core	the main Wacs module
WacsUI.pm	Core	the Wacs User Interface module
WacsStd.pm	Core	the Wacs Standardised Components module
WacsID.pm	Core	the Wacs Identification module
wacs.php	wacs-php	the main Wacs module, Php dialect
wacsui.php	wacs-php	the Wacs user interface module, Php dialect



Note

From Wacs 0.8.6 the perl **WacsUI**, **WacsStd** and **WacsId** modules have been relocated into a Wacs subdirectory for greater clarity and so now need to be used with Wacs:: prefixes.

Chapter 7, WACS API: Core Module

Chapter 8, WACS API: User Interface Module

Chapter 9, WACS API: Standard Components Module

Chapter 10, WACS API: Identification Module

Chapter 7. WACS API: Core Module

Core Module: Summary

Table 7.1. Function Summary: Core Module

function	description
read_conf	locate and read the XML based configuration file
check_auth	check that this is an authorised access
auth_error	report an authentication error and suggest remedies
auth_user	return the registered username for this IP
add_auth	add a new authentication token to access control system
find_config_location	try to locate the specified XML config file
conf_get_attr	get the requested configuration attribute
auth_get_attr	get the requested access control list attribute
dberror	produce a more helpful error page when db connections fail
gettoday	get today's date as a string suitable for the current DB
timecomps	break a date down into component parts
vendlink	provide a link to the vendors site
getvaluename	takes a single character flag and converts to string
geticonlist	gets the icon array for the specified object type
gettypecolour	get the prevailing colour scheme for the set type
divideup	make a directory name more readable
checkexclude	check for this file name being one to ignore/hide
checkindex	check for what might be an index file
makedbsafe	try to make the returned string safe for use in the database
addheadercss	add standard preamble to enable javascript menus
setgroupperms	set the appropriate group permissions for co-operative updating
treemkdir	create a tree of directories (mkdir -p equiv)

Core Module: Reference

Core Module: Reference

The following pages contain the *nix style reference pages for each function call in the WACS core module. These detail what the function does, what parameters it takes, what it returns and which versions of the core library it is available in.

read_conf — read Wacs core config modules

Synopsis

use Wacs;

read_conf

Summary

The read_conf causes the standard WACS XML configuration file, wacs.cfg to be parsed and the contents read into internal memory structures in the WACS module for later use by other WACS routines. The main interface to accessing this information is the call conf_get_attr.

read_conf is sensitive to the environment variable WACS_CONFIG which specifies a directory containing an alternative wacs.cfg configuration file.

Availability

read_conf is available in both perl and php.

check_auth — check if this IP address is authorised for access

Synopsis

```
use Wacs;
check_auth(ip_address, vocal_error);
scalar ip_address;
scalar vocal_error;
```

Summary

check_auth checks whether the passed IP address is authorised for access to this Wacs server at this time. This authorisation may be by either permanent or lease permission based upon the calling IP address. This IP address is specified by the first parameter to the function. The second parameter controls what will be done about it: if the value is 0 (zero), the call will merely terminate the session by exiting the program; if the value is 1 (one), an authorisation error HTML page will be displayed offering the user the option to log in. In the Perl version, an additional option of 2 (two) is available which outputs a failure icon in the case of an expired lease and a request for an image file - this is not possible in PHP as the content type of text/html has already been determined.

Availability

check_auth is available in both perl and php.

auth_error — create a reasonable HTML error page with reason and link to remedy

Synopsis

```
use Wacs;
auth_error(message);
scalar message;
```

Summary

auth_error creates a reasonable HTML error page with reason and link to remedy if applicable (ie login page). The message parameter will be placed in a bordered box near the bottom of the message and can be used to convey additional information. check_auth sets this to Sorry, your lease has expired. when that is the case.

Availability

auth_error is available in both perl and php.

auth_user — return the account name of the user associated with IP address

Synopsis

```
use Wacs;
scalar auth_user(ip_address);
scalar ip_address;
```

Summary

auth_user returns the account name of the user associated with the specified IP address.

Availability

auth_user is available in both perl and php.

add_auth — add a new authentication token to the access control list

Synopsis

```
use Wacs;
add_auth(...);
```

Parameters

parameter	description
ipaddr	The IP Address of the host being authorised.
user	account name of the user being registered
type	type of registration being undertaken - currently lease
role	leval of access granted currently: viewer, power or admin
date	date at which this lease should expire
prefexcl	preference exclusions: the scatflag values not to be shown by default
usedirect	whether to use the usedirect function if supported by the server - can be yes or no
imagepage	whether to create links to framed page or raw ones - should be frame or raw
scaling	when to use image scaling - can be none, slide, slide+page and all
size	size of scaled images when applicable in the format 1024x768
quality	jpeg quality setting used when scaling images
delay	desired delay before next image in slideshow

Summary

add_auth adds a new authentication token to the access control list, ie the leases file. This is the action taken by the wacslogin command after it has authenticated the user. It can also be used to update the user preferences - it is used by wacslogin, wacspref and wacslogout.

Availability

add_auth is currently available only in perl. A php implementation is possible in a future release if required.

find_config_location — return the location of the requested config file

Synopsis

```
use Wacs;
scalar find_config_location(configuration_filename);
scalar configuration_filename;
```

Summary

 $\label{thm:config_location} file. It first checks the directory specified by the WACS_CONFIG environment variable, and then tries the built-in list of possible WACS configuration file locations. This list is normally: <math display="block">\label{eq:configuration} / \text{configuration file locations}. This list is normally: <math display="block">\label{eq:configuration} / \text{configuration file locations}. This list is normally: <math display="block">\label{eq:configuration} / \text{configuration file locations}. This list is normally: <math display="block">\label{eq:configuration} / \text{configuration file locations}. This list is normally: <math display="block">\label{eq:configuration} / \text{configuration file locations}. This list is normally: <math display="block">\label{eq:configuration} / \text{configuration file locations}. This list is normally: <math display="block">\label{eq:configuration} / \text{configuration file locations}. This list is normally: <math display="block">\label{eq:configuration} / \text{configuration file locations}. This list is normally: <math display="block">\label{eq:configuration} / \text{configuration file locations}. This list is normally: <math display="block">\label{eq:configuration} / \text{configuration file locations}. This list is normally: <math display="block">\label{eq:configuration} / \text{configuration file locations}. This list is normally: <math display="block">\label{eq:configuration} / \text{configuration file locations}. This list is normally: <math display="block">\label{eq:configuration} / \text{configuration file locations}. This list is normally: <math display="block">\label{eq:configuration} / \text{configuration file locations}. This list is normally: <math display="block">\label{eq:configuration} / \text{configuration file locations}. This list is normally: <math display="block">\label{eq:configuration} / \text{configuration file locations}. This list is normally: <math display="block">\label{eq:configuration} / \text{configuration file locations}. This list is normally: <math display="block">\label{eq:configuration} / \text{configuration file locations}. This list is normally: <math display="block">\label{eq:configuration} / \text{configuration file locations}. This list is normally: <math display="block">\label{eq:configuration} / \text{configuration file locations}. This list is normally: <math display="block">\label{eq:configuration} / \text{configuration file locations}. This list is normally: \\ \label{eq:configuration} / \text{configuration file locations}.$



Note

The location specified by the environment variable WACS_CONFIG takes precidence, if and *only if* the requested file is present there. The normal directories are searched afterwards if the file is not found in the directory specified.

Availability

find_config_location is available in both perl and php.

conf_get_attr — get the specified attribute from the config file values

Synopsis

```
use Wacs;
scalar conf_get_attr(configuration_section, configuration_attribute);
scalar configuration_section;
scalar configuration_attribute;
```

Summary

conf_get_attr returns the specified attribute from the config file or it's default value if not specified there. The WACS configuration files are divided into a number of logical sections; the first parameter specifies which of these is required: amongst those defined are database, tables, fsloc, server, security, download, colours, layout, precedence and debug. Please see the WACS configuration guide and sample wacs.cfg files for more information on what information is available.

Availability

conf_get_attr is available in both perl and php.

auth_get_attr — get the specified attribute from the authorisation file values

Synopsis

```
use Wacs;
scalar auth_get_attr(ip_address, authorisation_attribute);
scalar ip_address;
scalar authorisation_attribute;
```

Summary

auth_get_attr returns the specified attribute from the authorisation file or it's default value if not specified there. These look ups are based on the IP address of the host - typical attributes include the user name, the preference exclusions, the role, and the various preference settings - see add_auth for more info.

Availability

auth_get_attr is available in both perl and php.

dberror — produce a more helpful error page when db connections fail

Synopsis

```
use Wacs;
dberror(...);
```

Parameters

parameter	description
header	Whether to add an HTML preamble or not: n for no, y for yes.
message	The message the end-user should recieve
error	The error message returned from the database routines; logged in the web server error log
dbuser	The database user account with which the access was being attempted, from the config file's dbuser entry.
dbhost	The host specification of the database that it was trying to access, from the config file's dbiconnect entry when using perl, and the phpdbconnect entry when using PHP

Summary

The dberror function provides a detailed and hopefully helpful error message when the WACS subsystem cannot connect to the database server. It also logs details of the failure to the web server error log.

Availability

dberror is available in both perl and php. It was introduced in Wacs 0.8.1.

gettoday — get todays date and various relations thereof

Synopsis

```
use Wacs;
scalar gettoday(...);
```

Parameters

parameter	description
format	which format to return date in (DD-MON-YYYYYY or YYYY-MM-DD) - default is native format for the current database
epoch	the actual date to convert in Unix seconds since 1970 format.
offset	number of days different from today - assumed to be historial if postive, future if negative - thus yesterday will be 1, a week ago will be 7, tomorrow will be -1.

Summary

The gettoday function returns either todays date or various deviations thereform - yesterday, a week ago, two weeks ago, etc.

Availability

gettoday is available in both perl and php.

timecomps — return seperated time components

Synopsis

```
use Wacs;
array timecomps(date_in_db_format);(format);
scalar date_in_db_format;
```

Summary

The timecomps breaks a database format date up into year, month and day components. The optional **format** parameter can specify a non-native date format for conversion purposes.

Availability

timecomps is available in both perl and php.

vendlink — provide (if possible) a link to the vendor's site for this model

Synopsis

```
use Wacs;
scalar vendlink(...);
```

Parameters

parameter	description
vendor	the vendor's reference (ie their vsite id)
page	which page to get: valid options are directory, modelpage, bio, vidindex, vidpage, imgpage, altpage, or signup.
name	the model's name
key	the model's key for this site
altkey	the model's alternative key for this site
setkey	the setkey if this request needs it (depends on the value of page above
sessionkey	the session key (if required and known).
modelno	the WACS model number for this request (believe me we occasionally need this)
setno	the WACS set number for this request (see above - this too)
dbhandle	current handle to the database connection

Summary

The vendlink provides (if possible) a link to a page on the vendor's site for this model or set. Specify the page you require using the page parameter - can link to any one of the many pages the vendor database knows about.

Availability

vendlink is available in only in perl at present. If you need it in PHP, please put in a request for it on the sourceforge tracker.

getvaluename — provide the long name for the specified value of specified type

Synopsis

```
use Wacs;
scalar getvaluename(...);
```

Parameters

parameter	description
object	The object you want the mapping for - see geticonlist below
value	The value you want mapped to it's long format (often a single character.

Summary

The getvaluename function returns the long (readable) name for the specified short value of specified fixed values attribute type. For instance, if you want to get the long name for type "M", you call getvaluename with object=>"types" and value=>M and getvaluename will return Masturbation.

Availability

getvaluename is available in both perl and php.

geticonlist — return the array of attributes to filename/long name mappings.

Synopsis

```
use Wacs;
hashref geticonlist(requested_object);
scalar requested_object;
```

Summary

The geticonlist function returns an array/hashref of the legal values for the requested type object. In some cases this will be the filenames of the icon for the attributes; in other cases it'll be the single character legal values and their long form names. Valid requests include: models, sets, types, media, dstatus, regions, flags, pussy, build and picon, hicon, ticon, bicon.

Availability

geticonlist is available in both perl and php. The picon attribute was added in Wacs 0.8.2. The build and bicon attributes were added in Wacs 0.8.6.

gettypecolour — return the background colour for this type of set

Synopsis

```
use Wacs;
scalar gettypecolour(set_type);
scalar set_type;
```

Summary

The gettypecolour returns the HTML colour specification for the background of the current set type. Pass it the set stype value ${\tt I}$, ${\tt V}$, etc.

Availability

gettypecolour is available in both perl and php.

divideup — make Camel-style text more readable and add HTML markup

Synopsis

```
use Wacs;
scalar divideup(original_text, divider, already_small_font);
scalar original_text;
scalar divider;
scalar already_small_font;
```

Summary

The divideup function returns a more readable version of the so-called Camel Style wording used in creating WACS directories. It also embeds HTML directives to try and ensure that even long entries don't take up too much space. The first argument is the original text (typically the field stitle from the sets database), the second (divider) is typically the HTML break tag
br> but could be other things like a table divider sequence
. The third parameter signifies whether the font in use is already small - if set to 0 (zero), HTML tags to reduce the font size be based on using size is -1 for long lines; if it's set to 1 (one) it'll be assumed they were already using size is -2, and will therefore use size = -3. As from Wacs 0.8.5, -1 is also available which suppresses the resizing of long lines if required.

Availability

divideup is available in both perl and php.

checkexclude — test for being a directory file or other reserved purpose name

Synopsis

```
use Wacs;
scalar checkexclude(filename);
scalar filename;
```

Summary

The checkexclude returns 1 if the file is one of those that should be excluded from consideration (ie . or .. or one of ours like .info or .unpack). If the file looks genuine, returns 0.

Availability

checkexclude is available only in perl as it is just used for collection management tasks.

checkindex — try to guess if this is an index image file

Synopsis

```
use Wacs;
scalar checkindex(filename);
scalar filename;
```

Summary

The checkindex tries to guess if a given file name is likely to be an index file or a regular image file based upon it's name. If it's a name associated with index files, it returns 1; if it isn't checkindex returns 0.

Availability

checkindex is available in only perl as it is really only appropriate to collection management tools.

makedbsafe — try to make the returned string safe for use in the database

Synopsis

```
use Wacs;
scalar makedbsafe(...);
```

Parameters

parameter	description
string	the string of text to be considered
allow	characters to allow which are not normally acceptable: at present only forward slash (/) is recognised
deny	characters to deny which are normal acceptable: at present any space character (space, tab, newline) given here will cause any whitespace characters to be stripped out.

Summary

The makedbsafe function is designed to remove characters which are unsuitable for feeding to the database. It normally works with a default set of rules, which implicitly disallows forward slash (but this can be explicitly allowed with allow=>'/'). Similarly white space can be removed from a file name when required using the deny option.

Availability

makedbsafe is available in both php and perl. This function was added in Wacs 0.8.1.

addheadercss — prints out the header cascading style sheet preamble

Synopsis

```
use Wacs;
addheadercss(css_preamble_type);
scalar css_preamble_type;
```

Summary

The addheadercss prints out the required css preamble to support the appropriate pull down menu system. At present only one type, "csshoriz" is recognised, but additional options can be added.

Availability

addheadercss is available in both perl and php.

setgroupperms — set group permissions to allow both command line and web management of sets.

Synopsis

```
use Wacs;
setgroupperms(...);
```

Parameters

parameter	description
target	pathname of the file or directory to update
group	the unix group to set permissions to (usually wacs, can be obtained with conf_get_attr on security -> admingroup.
mode	access mode that should be set - typically ug+rwX.

Summary

The setgroupperms function sets the group permissions on the specified file to allow updating by both command line tools and the web interface. This is typically done by making all files group-writeable to the wacs group of which both apache and the approved WACS administrative users should be members.

Availability

setgroupperms is available only in perl as it is used only for collection management tasks.

treemkdir — Makes a descending tree of directories (equivalent to the mkdir -p command) which includes calls to setgroupperms.

Synopsis

```
use Wacs;
treemkdir(...);
```

Parameters

parameter	description
origin	The toplevel directory from which to start - this is required to already exist.
path	The path below the toplevel directory given above to be created (or partially created as necessary)

Summary

The treemkdir function is the equivalent of the -p option to the **mkdir** command which is not supported by the internal mkdir call of perl. It makes each element of the path it is asked to make if it does not already exist. This is part of the effort to reduce the dependency on the system call to unix shell commands within WACS. Each directory created has it's permissions set using setgroupperms.

Availability

treemkdir is available only in perl as it is used only for collection management and infrastructure tasks.

Chapter 8. WACS API: User Interface Module

User Interface Module: Summary

Table 8.1. Function Summary: User Interface Module

function	description
describeher	tries to make a sensible sentance out of model data
whatshedoes	describes the kind of sets this model appears in
addkeyicons	makes a little HTML table with the attribute icons
addratings	makes a little HTML table with the set ratings
iconlink	build a link around the icon for this set
addlinks	add standard top-of-the-page menus
alsofeaturing	find and list any other models featured in this set
read_menu	read the XML menu files and create menu record structure
menu_get_default	get the default link for the menu title
menu_get_title	get the menu title itself
menu_get_body	get the body of the menu
menu_get_entry	get a single entry from the menu
menu_get_handler	get the webapps name to handle a datatype

User Interface Module: Reference

describeher — tries to make a sensible sentance out of model data

Synopsis

```
use Wacs;
use Wacs::WacsUI;
scalar describeher(...);
```

Parameters

parameter	description
name	Her name
hometown	Where she says she's from - might be place of birth or current home
country	The country she comes from
age	Her reported age
ageyear	The year in which that age was given
hair	The colour of her hair
length	The length of her hair
titsize	The size of her breasts
cupsize	The cupsize of her breasts if known
pussy	The usual style of her pubic hair
race	Her race (in broad terms)
eyes	The colour of her eyes
distmarks	distingishing marks - easy ways to recognise her
build	her phyiscal build/body type
height	her height in centimetres (NB: field not suitable for imperial values)
weight	her weight in kilograms (NB: field not suitable for imperial values)
vitbust	her bust measurement in centimetres
vitwaist	her waist measurement in centimetres
vithips	her hips measurement in centimetres
occupation	her occupation (if stated)
aliases	other names she's known by
bio	any additional biography text
units	override configuration file when giving units: imperial or metric

Summary

The describeher tries to make a readable biography entry out of the various model attribute parameters in the model table. The result is returned as a string.

Availability

describeher is available in both perl and php. The fields name, hometown, country, age, ageyear, bio and units were added in WACS 0.8.2.

whatshedoes — describes the kind of sets this model appears in

Synopsis

```
use Wacs;
use Wacs::WacsUI;
scalar whatshedoes(...);
```

Parameters

parameter	description
solo	does she feature in solo sets (Y, N)
straight	does she feature in straight sets (Y, N)
lesbian	does she feature in lesbian sets (Y, N)
fetish	does she feature in any sets flagged as fetish
toys	does she use toys in any of her sets
masturbation	does she masturbate in any of her sets
other	does she do any activites marked as other

Summary

The whatshedoes function takes the truth values for doing certain kinds of activities and makes it into a descriptive sentence which is returned as a string.

Availability

whatshedoes is available in both perl and php.

addkeyicons — makes a little HTML table with the attribute icons in

Synopsis

```
use Wacs;
use Wacs::WacsUI;
addkeyicons(list_of_attribute_keywords, icon_size);
scalar list_of_attribute_keywords;
scalar icon_size;
```

Summary

The addkeyicons function takes a space seperated list of attribute keywords such as the sets table scatinfo field or the models table mattributes field and prints out the associated icons in a small HTML table. It scales the icons to the specified size in doing so.

Availability

addkeyicons is available in both perl and php.

addratings — makes a little HTML table with the ratings icons in

Synopsis

```
use Wacs;
use Wacs::WacsUI;
addratings(...);
```

Parameters

parameter	description
overall	The overall rating for the set (1 to 5)
variety	How unusual the content or action of the set is
techqual	The technical quality of the photography, lighting and set
size	How big the icons should be: normal or small
orientation	whether the table should be vertical or horizontal
title	display title on table: y for yes, n for no.

Summary

The addratings function is similar to addkeyicons in that it outputs an HTML table with icons in. In this case, it's the ratings icons for each of the three main set ratings: overall, variety and techqual. It can display the table in two sizes, with or without a title and in a horizontal or vertical orientation.

Availability

addratings is available in both perl and php. This function was introduced in Wacs 0.8.1

iconlink — build a link around the icon for this set

Synopsis

```
use Wacs;
use Wacs::WacsUI;
iconlink(...);
```

Parameters

parameter	description
type	set type value (I, V, etc)
setno	The set number
sarea	The toplevel area of the set
scategory	The middle level area of the set
sdirectory	The lower level area of the set
model	The model's name - used in the alt tag in the images
resize	Whether to resize or not - 0 is actual size, 1 is rescaled to standard size, 2 is rescaled to mini size
destloc	Which configuration variable to use for location of link destination application - typically cgiurl for perl scripts, siteurl for php scripts, or wacsurl for wacs GUI elements (like glyphs, javascript files or stylesheets)
destapp	The stem of the URL to link to around the icon, something like wacsindex/page, needs to include any parameter introducers like page or setid=
destext	The extension of the URL to link to, or null, ie .html or .php

Summary

The iconlink function displays the icon for a set at the requested size surrounded by an appropriate link to the set concerned.

Availability

iconlink is available in both perl and php. The destloc, destapp and destext options are only available in 0.8.1 or later.

addlinks — add standard top-of-the-page menus

Synopsis

```
use Wacs;
use Wacs::WacsUI;
addlinks(...);
```

Parameters

parameter	description
myname	name of the calling program
context	general area of the current page: possible values are modelindex, models, search, tags, newimage, newvideo or admin
title	Title of the menu (not currently used)
exclude	name of link to exclude (normally this apps name so it doesn't link to itself
mode	menu mode: either normal for old-style simple top line menu or csshoriz to use javascript pull down menus
options	optional parameter list (array)
optdesc	matching descriptions for the above

Summary

The addlinks function is a generalised interface to adding a top of the page menu - you specify a general category into which the page you're writing falls, and it adds an appropriate selection of the standard menus.

Availability

addlinks has been available in perl for sometime and was newly added to the php implementation in Wacs release 0.8.4. In general, unless you're trying to create a php app that blends in with the standard Wacs tools, you'll probably want to use your own menu mechanism when using PHP.

alsofeaturing — look for any other models also featuring in this set

Synopsis

```
use Wacs;
use Wacs::WacsUI;
scalar alsofeaturing(...);
```

Parameters

parameter	description
setno	The set number of this set
primary	The model number we already know about for this set; exclude this model from the results. Leave blank if you want all models listed.
staysmall	stay in a small font - if this is set to Y font change specifications will not cause a size change.
destloc	the location of the destination application for the link. This defaults to cgiurl but can be baseurl or any of the url configuration values.
linkto	which wacs application to link to (assumed to be in cgi-bin). If this ends in an equals sign (=) no slash will be added between the application name and the modelno. This allows modelno= and L= style arguments.
skipbr	tells the function not to output HTML breaks around the output it creates. This can be first or all as required.
dbhandle	current handle to the database connection

Summary

The alsofeaturing function returns a list of models featured in this set along with links to an appropriate WACS application.

To aid CSS styling there is a span directive with a class of alsofeattitle around the Featuring or Also Featuring title output, and another with a class of alsofeatmodel around each model link output.

Availability

alsofeaturing is available in both perl and php (from release 0.8.5); only in perl in the releases prior to that. It was moved to WacsUI in release 0.8.5 from the core Wacs module. The <code>skipbr</code> and <code>destloc</code> parameters were added in Wacs release 0.8.5.

read_menu — read the XML menu files and create menu record structure

Synopsis

```
use Wacs;
use Wacs::WacsUI;
read_menu(menu_filename);
scalar menu filename;
```

Summary

The read_menu reads the specified menu XML file into the internal data structures of the wacsui object. It should be called before using any of the other menu routines. For the standard system menus, the collection management tools use the file menu.cfg in the wacs config directory (usually /etc/wacs.d). You can edit the standard menu file to add your own additional menu definitions for use in specific applications. If your application wishes to use an alternate namespace, you could specify an alternate menu config name, something like mysite.cfg and also place it in the wacs config directory.

Availability

read_menu is available in both perl and php.

menu_get_default — get the default link for the menu title

Synopsis

```
use Wacs;
use Wacs::WacsUI;
scalar menu_get_default(...);
```

Parameters

parameter	description
name	the menus name; typically in lower case (eg navigation)
caller	name of the calling application
exclude	applications to exclude from menus; typically the calling application itself
options	an array of options to be substituted.
optdesc	a matching array of descriptions

Summary

The menu_get_default returns the default link for the top-of-the-page menu title before the menu pull-down is activated. Normal substitutions are applied to this option if specified.

Availability

menu_get_default is available in both perl and php.

menu_get_title — get the menu title itself

Synopsis

```
use Wacs;
use Wacs::WacsUI;
scalar menu_get_title(...);
```

Parameters

parameter	description
name	Name of the menu whose title you want

Summary

The menu_get_title function returns the readable title for the specified menu. This is typically what the link address returned by menu_get_default will surround.

Availability

menu_get_title is available in both perl and php.

menu_get_body — get the body of the menu

Synopsis

```
use Wacs;
use Wacs::WacsUI;
scalar menu_get_body(...);
```

Parameters

parameter	description
name	name of the menu concerned
caller	name of the program calling it
exclude	name of program to exclude from menus
options	array of options to use
optdesc	array of matching descriptions for the options above
isarea	hashref/array of image-based sarea values
vsarea	hashref/array of video-based sarea values
mflags	hashref/array of model flags
vsites	hashref/array of vendor codes and names
pre	prefix for generated entries (eg <a)<="" href='\"' td="">
intra	middle section for generated entries (eg \ " >)
post	postfix for generated entries (eg

Summary

The menu_get_body function returns a big string containing the HTML formatted body of the requested menu. Using the pre, intra and post parameters you can include the correct entry pre-amble, mid-section and tail-section for your desired menu layout.

Availability

menu_get_body is available in both perl and php.

menu_get_entry — get a single entry from the menu

Synopsis

```
use Wacs;
use Wacs::WacsUI;
scalar menu_get_entry(...);
```

Parameters

parameter	description
name	name of the menu concerned
caller	name of the program calling it
entry	hashref/array of the current entry object from menu tree
options	array of options to use
optdesc	array of matching descriptions for the options above
isarea	hashref/array of image-based sarea values
vsarea	hashref/array of video-based sarea values
mflags	hashref/array of model flags
vsites	hashref/array of vendor codes and names
pre	prefix for generated entries (eg <a)<="" href='\"' td="">
intra	middle section for generated entries (eg \">)
post	postfix for generated entries (eg

Summary

The menu_get_entry takes an individual menu entry (which may result in multiple menu entry lines) and processes it into a string that is returned. It is available seperately as it can be called with custom parameters via options and optdesc to do specific non-standard parameters. All the usual substitions are available including a special one called #NEWPERIOD# which provides a text representation of the current value of the layout->newperiod variable.

Availability

 $menu_get_entry$ is available in both perl and php. The NEWPERIOD functionality was introduced in WACS 0.8.5.

menu_get_handler — get the webapps name to handle a datatype

Synopsis

```
use Wacs;
use Wacs::WacsUI;
scalar menu get handler(...);
```

Parameters

parameter	description
for	The type of data this is a handler for; usually this will be the table name, eg models but it can be any arbitary name.
options	This is the primary key to be passed to the application specified in the lookup.

Summary

The menu_get_handler function is there primarily to let you find the applications that mesh best with the menu tree currently being used. You pass to the function the table or activity name and the primary key (or other lookup parameter) and it will return the preferred application to handle that type of link for this menu/look and feel in use. If the menu configuration file does not include a specification of the handler for any of the standard database tables, the default Wacs application will be given as the reply. A null reply will be indicated by a single character reply of just the hash character.

Some Common Names	
mainmenu	
models	
photographer	
preferences	
slideshow	

Availability

menu_get_handler is available from Wacs 0.8.5 onwards in both perl and php. It was not available prior to this release.

Chapter 9. WACS API: Standard Components Module

Standard Components Module: Summary

Table 9.1. Function Summary: Standard Components Module

function	description
masthead	creates a top-of-the-page summary for any page handling set
modelheads	adds the icons with links for model(s) specified
findmodel	creates a table and choice box for models with a given name
findrecentsets	creates rows in a table managed form with pull-down menus containing details of recently added sets
findrecentmodels	creates rows in a table managed form with pull-down menus containing details of recently added models and a search box to be fed to findmodel
modelheadshot	creates a model headshot icon and basic info table contents
getgallery	work out the next available gallery slot when in gallery layout mode
kwscore_reset	resets the keyword scoring system back to defaults
kwscore_process	process the provided string looking for keywords
kwscore_get	get the specified result from the processing of the strings provided previously
removedups	remove duplicates from an attribute string
removeconflicts	remove items that contradict the set attributes from the model attributes
addassoc	Add a new model/set association record
alloc_nextkey	Work out the next primary key value for the specified database table

Standard Components Module: Reference

The **WacsStd** module contains standard components for building the standard WACS collection management tool interface. Since all these tools are written in perl, this module is only implemented in perl.

masthead — top of page banner for set-based apps

Synopsis

```
use Wacs;
use Wacs::WacsStd;
masthead(...);
```

Parameters

parameter	description
setno	The set number
stype	The set type (single letter database format)
scatinfo	The attributes for the set
scatflag	The set type flag (single letter database format)
stitle	The assigned set title, aka standard description
sofftitle	The official title (usually from original site)
sarea	Toplevel directory entry
scategory	Middle level directory entry
sdirectory	lowest level - actual holding directory (filename for videos)
simages	Number of images in the set
sindexes	Number of index images for the set
saspect	aspect ratio (mainly for videos)
sformat	file format for this set (.jpg, .png, .mov, .wmv etc)
sdurhrs	video or DVD scene duration - hours value
sdurmin	video or DVD scene duration - minutes value
sdursec	video or DVD scene duration - seconds valus
sphotog	photographer reference code (references pref in photographer)
sfoundry	organisation where the set came from
modelno	associated model number
downloadno	associated download record number
useicon	when working with a set number 0, attempt to get an icon by asking for a thumbnail of the first image
addlinks	add set browsing links to the masthead centre section
width	make the masthead table the specified width only
dbhandle	the current database handle object

Summary

masthead generates a standard top-of-the-page banner heading for any page that is intended to document or amend a standard set record. It does a *best efforts* with whatever fields it has passed to it.

Availability

masthead is only available in Perl.

modelheads — adds the icons with links for model(s) specified

Synopsis

```
use Wacs;
use Wacs::WacsStd;
modelheads(lookup_method, set_number, dbhandle);
scalar lookup_method;
scalar set_number;
scalar dbhandle;
```

Summary

The modelheads function was originally written as part of the implementation of masthead but has broader uses. It provides a table of a model (or group of models) headshots with ratings and name. The <code>lookup_method</code> can be one of <code>byset</code> (where it's the models featured in the specified set number) or <code>byno</code> (where the second argument is the *model number* rather than the set number). The default option in other cases is any models who've been added today - it is recommended you specify <code>bydate</code> and pass the date for this option.

Availability

modelheads is currently only available in perl.

findmodel — creates a table and choice box for models with a given name

Synopsis

```
use Wacs;
use Wacs::WacsStd;
use Wacs::WacsUI;
findmodel(...);
```

Parameters

parameter	description
mname	the model name or beginning of the name to look for
offeralt	Whether to offer an alternative choice or not: y or n
offervalue	What the value returned for the alternative should be, eg next
offercapt	What the caption for the alternative value should be
incsubmit	Whether to include a submit button or not: y or n
dbhandle	pointer to the currently active database handle
cgihandle	pointer to the currently active CGI object

Summary

The findmodel function takes the name of a model and searches the database for who it might concievably be. It checkes the model's name, her aliases and the name from each of her ID map entries. It presents a headshot, description, and a radio button to allow her to be choosen. It can optionally offer an additional radio button for another purpose. The choosen model's number or next will be returned in a CGI variable called modelno.

Availability

findmodel is only available in perl at this time

findrecentsets — creates rows in a table managed form with pull-down menus containing details of recently added sets

Synopsis

```
use Wacs;
use Wacs::WacsStd;
findrecentsets(...);
```

Parameters

parameter	description
offset	the number of days in the past to consider as recent. Defaults to the current value of layout->newperiod if not specified.
default	the default value for the set number if known.
dbhandle	pointer to the currently active database handle
cgihandle	pointer to the currently active CGI object

Summary

The findrecentsets function creates rows in a table managed form with pull-down menus containing details of recently added sets. The method selected by the user for specifying their response will be stored in a CGI variable called <code>setmeth</code> which will have a value of one of <code>specify</code>, <code>image</code> or <code>video</code>. If their response is <code>specify</code> the setno will be in a CGI variable called <code>spec_setno</code>. If their response is <code>image</code> the setno will be in a CGI variable called <code>recent_img</code> and for <code>video</code> it'll be in <code>recent_vid</code>.

Availability

findrecentsets is only available in perl at this time. This function was introduced in WACS 0.8.5.

findrecentmodels — creates rows in a table managed form with pull-down menus containing details of recently added models and a search box to be fed to findmodel

Synopsis

```
use Wacs;
use Wacs::WacsStd;
findrecentmodels(...);
```

Parameters

parameter	description
offset	the number of days in the past to consider as recent. Defaults to the current value of layout->newperiod if not specified.
default	The default model number if known.
dbhandle	pointer to the currently active database handle
cgihandle	pointer to the currently active CGI object

Summary

The findrecentmodels function creates rows in a table managed form with pull-down menus containing details of recently added models and a search box to be fed to findmodel. The method selected by the user for specifying their response will be stored in a CGI variable called <code>modmeth</code> which will have one of these values: <code>specify</code>, <code>recent</code> or <code>search</code>. If their response is <code>specify</code> the modelno will be in a CGI variable called <code>spec_modelno</code>. If their response is <code>recent</code>, the modelno will be in a CGI variable called <code>recent_mod</code>. If the value is <code>search</code> the findmodel function should be called <code>passing</code> the CGI variable <code>search</code> as the <code>mname</code> parameter.

Availability

findrecentmodels is only available in perl at this time. This function was introduced in WACS 0.8.5.

modelheadshot — creates a model headshot icon and basic info table contents

Synopsis

```
use Wacs;
use Wacs::WacsStd;
modelheadshot(...);
```

Parameters

parameter	description
modelno	The model number - that is our model number for her.
name	The model's name that we're looking for - thus if we know the model as Jedda, but know she's known as Jana elsewhere, we'd put Jana here to build up a link along the lines of "Known as Jana at KPC" in the id description field.
howcome	How we came by this model - this can be S as the result of a name search or I if we're displaying her ID details for a specific site.
where	The site id or short name for where we found this model called this name
key	The model's key on the site we're talking about if specified.
dbhandle	pointer to the currently active database handle

Summary

The modelheadshot is used to produce a basic headshot accompanied by name, attribute icons and optionally details of her identity on a given site. It is a component used in the findmodel function but directly exposed since Wacs 0.8.4 to allow it's use in other places too.

Availability

modelheadshot is only available in perl at this time.

getgallery — get the next available slot in the named gallery

Synopsis

```
use Wacs;
use Wacs::WacsStd;
scalar getgallery(...);
```

Parameters

parameter	description
which	Specifies which area to substitute in - can be either scategory (middle level) or sdirectory (lower level).
stype	stype of the set concerned: typically I for image set, V for video.
sarea	Top level area in which to search for the next available gallery slot
scategory	The middle level directory entry (can be either simply specified or the subject of the substitution). This should include the variable pattern given in substitute below, as in gallery#NEXT#.
sdirectory	The lower level directory entry (if needed, otherwise blank).
substitute	The string to be substituted with the value determined by the routine. Typically this will be something like #NEXT#.
dbhandle	The Perl DBI handle to the current database

Summary

The <code>getgallery</code> function returns the appropriate string for the next available slot in the gallery in the specified section. It can return either an scategory or sdirectory variable as requested via the which parameter. It is used to work out the placement of new sets within a gallery structure. What the next usable gallery is is determined by reference to the <code>layout</code> attribute <code>setspergallery</code> in the configuration file or the default value (usually 20) if not specified. Please see the configuration manual for more details on this configuration attribute.

Availabilty

As a collection administration function, getgallery is only available in perl.

kwscore_reset — resets the keyword scoring system back to defaults

Synopsis

```
use Wacs;
use Wacs::WacsStd;
kwscore_reset(scope);
scalar scope;
```

Summary

The kwscore_reset function resets the currently built attributes table. It is possible to run the kwscore_process function several times with different fields from the database and so it does not naturally reset the internal table of results - this call provides that facility and should always be called before each new set to consider. The scope parameter is currently ignored but may in future modify the behaviour.

Availability

As keyword scoring is a collection administration activity, it is currently only implemented in perl.

kwscore_process — process the provided string looking for keywords

Synopsis

```
use Wacs;
use Wacs::WacsStd;
kwscore_process(...);
```

Parameters

parameter	description
string	the string to be processed against the keyword database
dbhandle	the database session object pointer

Summary

The kwscore_process function allows you to submit a string to the keyword scoring system for consideration. It's scores will be stored allowing both retrieval of results and modification of those results by subsequent invocation of the kwscore_process with alternative strings. It is perfectly possible to consider both the title (field stitle) and the official title (field sofftitle) if that is appropriate. It could also be run on the description of the set if that is present.

Availability

As a collection administration function, kwscore_process is currently only available in perl.

kwscore_get — get the specified result from the processing of the strings provided previously

Synopsis

```
use Wacs;
use Wacs::WacsStd;
kwscore_get(...);
```

Parameters

parameter	description
what	which result you are requesting: valid ones are: cat, loc, det, attr or other.
default	a default value you want returned if nothing is found for this request

Summary

The kwscore_get function retrieves the results from any kwscore_process calls made since the last kwscore_reset. The what argument specifies what to return:- cat returns a category flag (scatflag etc.), loc returns a location (slocation), det returns a detailed location (slocatial, attr returns the attributes (scatinfo and other is available for future expansion.

Availability

As a collection administration function, kwscore_get is currently only available in perl.

removedups — remove duplicates from an attribute string

Synopsis

```
use Wacs;
use Wacs::WacsStd;
scalar removedups(raw_attribute_list);
scalar raw_attribute_list;
```

Summary

The removedups function removes any duplicate entries from a space-separated list of attributes - this is typically necessary when merging more than one source of attribute information like that from the kwscore_get function and the result of fetching model attributes. Please also see removeconflicts function below.

Availability

As a collection administration function, removedups is currently only available in perl.

removeconflicts — remove items that contradict the set attributes from the model attributes

Synopsis

```
use Wacs;
use Wacs::WacsStd;
scalar removeconflicts(...);
```

Parameters

parameter	description
model	The model's attributes (mattributes field)
existing	The existing combined attributes (ie those taken from the set scatinfo field

Summary

The removeconflicts function is designed to stop contradictory overwriting of mutually exclusive model attributes - typically those relating to pubic hair trimming, as these can often vary between sets of the same model. It is provided with the model's attributes plus the existing set attributes - if the existing set attributes do not include a contradictory value, then the model's attributes are included. If there's a conflict, the model's pubic hair attribute is dropped in favour of that in the set. This is usually the correct behaviour. This if a model is normally considered to have a shaven pussy, but appears in a set before she's shaven it (or even as she does so), then the set may be marked with the hairy attribute. If that is there, the model's default of shaven will be removed and only her other attributes (tattoos, piercings, etc) will be imported.

Availability

As a collection administration function, removeconflicts is currently only available in perl.

addassoc — add a new association record connecting a model with a set

Synopsis

```
use Wacs;
use Wacs::WacsStd;
scalar addassoc(...);
```

Parameters

parameter	description
setno	the set number to be associated with a model (see below)
modelno	the model number to be associated with the above set
asstype	the type of the association - currently only G for general but this might be changed in the future - see the schema reference for the assoc table for more information.
dbhandle	The open database handle for use in querying the database

Summary

The addassoc function is designed to add association records between sets and models. To do this it creates a new record in the assoc database table using the next available primary key for that table. To call addassoc you need to provide a set number, a model number and a dbhandle to a currently open database session. Optionally you may also provide an association type although currently only one type, G for general is defined in the WACS database dictionary. addassoc protects against adding multiple associations between the same model and set.

Availability

As a collection administration function, addassoc is currently only available in perl.

alloc_nextkey — allocate the next new unique primary key for the database table specified

Synopsis

```
use Wacs;
use Wacs::WacsStd;
scalar alloc_nextkey(table_name, primary_key_fieldname, dbhandle);
scalar table_name;
scalar primary_key_fieldname;
scalar dbhandle;
```

Parameters

parameter	description
table_name	The name of the table in the Wacs database schema for which the new key should be allocated, eg sets, models or assoc.
primary_key_fieldname	The name of the primary (unique) key to that database table.
dbhandle	The open database handle for use in querying the database

Summary

The alloc_nextkey function simply returns the next available value for creating a new record in the specified table. It's rather simplistic and can be caught out by race conditions, but it mostly gives you a valid numeric primary key for the table concerned.

Availability

As a collection administration function, alloc_nextkey is currently only available in perl.

Chapter 10. WACS API: Identification Module

Identification Module: Summary



Warning

The existing identification module has many flaws and it is intended to massively overhaul it in the near future. We would not recommand utilising functions from this module at the present time. If you need a particular routine listed here, please contact us and we'll consider moving it to one of the more stable modules if appropriate

Table 10.1. Function Summary: Identification Module

function	description
ident_img	Identify characteristics of an image set from download info
ident_vid	Identify characteristics of a video clip from download info
reset_attr	reset the global attribute table
id_get_flag	get previously determined flag (run ident_* first)
id_get_info	get previously determined catinfo (run ident_* first)
id_get_photog	get previously determined photographer (run ident_* first)
id_get_dnldno	get download record number
id_get_modelno	get the model number
id_get_modelname	get the model's name
id_get_vendor	get the vendor reference
id_get_dbhandle	get the current DB handle
id_get_key	get the current models id at the current vendor
id_get_setkey	get the set key at the current vendor
id_get_setname	get the name of the most recent set
id_get_status	get the status of the most recent set
id_get_notes	get the current value of the notes field
id_get_setno	get the current value of the setno field
id_mpage	process a modelpage looking for links to suitable sets
chk_vid_type	check to see if this url is a video file type
chkid_existing	check to see if we already have a model with this idmap

Part III. WACS Database Schema

This is the Database Schema Reference Manual, or data dictionary, for the WACS environment. This documents the database tables in use, their contents, structure, relationships and assigned values.

The WACS database schemas are built with the convention that the first letter of the schema name is prefixed to all fields within that schema. Thus a field from the sets schema will start with the letter s, a field from the assoc schema will start with the letter a and so on. Generally relationed fields will have fundamentally the same name, such that the set number is setno in the sets schema, asetno in the assoc schema, tsetno in the tags schema, dsetno in the download schema, and so on. This makes performing relational joins much easier and more portable since one can do the likes of where amodelno = modelno without any ambiguity and without having to specify the table name explicity.

Where possible fields with a limited set of possible values will be single character fields with a reasonably neumonic value for each possible value. Thus the media type (stype, dtype, etc) is **V** for Video Clip, **I** for Image Set, **D** for DVD scene, and so on. A lookup hash of the legal values will typically be available for programmers to use from the core Wacs module (see the Part II, "WACS API Programming Reference" for more details).

Chapter 11, Schema Reference: Sets
Chapter 12, Schema Reference: Assoc
Chapter 13, Schema Reference: Idmap
Chapter 14, Schema Reference: Models
Chapter 15, Schema Reference: Download
Chapter 16, Schema Reference: Photographer
Chapter 17, Schema Reference: Tag

Chapter 18, Schema Reference: Vendor Chapter 19, Schema Reference: Conn Chapter 20, Schema Reference: Keyword Chapter 21, Schema Reference: User Chapter 22, Schema Reference: Attrib Chapter 23, Schema Reference: Notes

Chapter 11. Schema Reference: Sets

Sets: Schema SQL



Warning

WACS 0.8.5 contains a significant number of additions to this schema ahead of the shift to the 0.9.x release series. None of these changes are used or accessed by applications in Wacs 0.8.5, so you can defer updating the Schema until Wacs 0.9.0 comes out if you wish to. There will be a tool to update the schema supplied with Wacs 0.9.0. The newly added and currently not used fields are those in **bold** typeface.

```
create table sets
                         number(9) primary key,
( setno
                         char(1) not null,
  stype
                         char(1) not null,
  sstatus
                         char(1),
  srank
  sauto
                         char(1),
  srating
                         char(1),
                         char(1),
  sflag
  stechqual
                         number(2),
  svariety
                         number(2),
  svisits
                         number(2),
  sformat
                         varchar2(10),
  scodec
                         varchar2(40),
  stitle
                         varchar2(240),
  sofftitle
                         varchar2(240),
  sofficon
                         varchar2(160),
  saddicon
                         varchar2(160),
  sname
                         varchar2(80),
  shair
                         varchar2(80),
  smodelno
                         varchar2(40),
  slocation
                         varchar2(20),
  slocdetail
                         varchar2(40),
  sattire
                         varchar2(20),
  sfocus
                         char(1),
                         varchar2(6) references photographer,
  sphotog
  ssource
                         varchar2(80),
  sfoundry
                         varchar2(80),
  sproddate
                         date,
  sreldate
                         date,
                         char(1),
  suscattr
  snotes
                         varchar2(240),
  sdesc
                         varchar2(2048),
  sindexes
                         number(6),
  simages
                         number(6),
  sdurhrs
                         number(2),
  sdurmin
                         number(2),
  sdursec
                         number(2),
  slandx
                         number(6),
```

```
slandy
                         number(6),
  sportx
                         number(6),
  sporty
                         number(6),
  saspect
                         varchar2(10),
                         number(6),
  sfps
  sinter
                         char(1),
  sskipfr
                         number(9),
  sbytes
                         number(12),
  sdvdno
                         number(6),
  sdvddisc
                         number(2),
  sdvdtitle
                         number(3),
  sdvdstartch
                         number(3),
                         number(3),
  sdvdendch
  sidlogo
                         char(1),
  serrors
                         char(1),
  sduplicates
                         number(9) references sets,
  saltmedia
                         number(9) references sets,
  snext
                         number(9) references sets,
                         number(9) references sets,
  sprev
  ssetpos
                         number(2),
                         varchar2(160),
  scatinfo
  scatflag
                         char(1),
  snamestem
                         varchar2(80),
                         varchar2(160),
  sdownload
                         varchar2(160),
  sarea
  scategory
                         varchar2(160),
  sdirectory
                         varchar2(240),
  scomments
                         varchar2(240),
  sadded
                         date,
  samended
                         date
);
```



Note

sattire is a new field introduced into the schema in release 0.8.1; it came into use in WACS 0.8.2. It is currently scored using the other attribute of the keyword system, this will change to using kiwear in WACS 0.9.0.



Tip

The new fields introduced in WACS 0.8.5 are srank, sfocus, saltmedia, snext, sprev and ssetpos. Additionally referential integrity is now enforce for sduplicates which shouldn't cause a particular problem if it's been used correctly.

Sets: Defined Values

Table 11.1. stype: Type of Set: defined values

stype	
I	Image Set
V	Video Clip

stype	
A	Audio File
S	DVD Scene

Table 11.2. sstatus: Status of Set: defined values

sstatus	
M	Manually Added, Details Not Checked
A	Automatically Added, Details Not Checked
N	Normal - Checked
G	Good - Thoroughly Checked
U	Unknown

Table 11.3. sauto: Automatic Update of Set Allowed?: defined values

sauto	
N	None (no auto updates)
L	(on-disk) Location only - all attributes manual
A	Append only - all existing entries stay
F	Fully auto-generated - all values can change

Table 11.4. srating: Overall Rating For The Set: defined values

srating	
5	Finest
4	Very Good
3	Good
2	Reasonable
1	Mediocre
0	None Specified

Table 11.5. stechqual: Technical Quality Rating For The Set: defined values

stechqual	
5	Finest - HD Video done well, Multi-megapixel stills
4	Very Good - Well lit SD or good HD Video, good megapixel + stills
3	Good - Well done low-res SD, good sub-megapixel stills; not quite so good but higher res

stechqual	
2	Reasonable - either very small, or bad equipment (flash on camera) used moderately well
1	Mediocre - lack of skill, bad equipment, poor composition
0	None Specified

Table 11.6. svariety: Unusualness Rating For The Set: defined values

svariety	
5	Very Unusual - look at the set scenario and think "What the F***!"
4	Unusual - unusual and very interesting - "Wow"
3	Neat - interesting and impressive but not quite "Wow"
2	Cute Twist - a slightly unusual twist, unusual pose etc
1	Ordinary - can still score very highly in overall and tech
0	None Specified

Table 11.7. sformat: Format of the File(s) In The Set: defined values

sformat	
JPEG	JPEG image
GIF	GIF image
PNG	PNG image
PNM	PNM,PBM,PGM,PPM image
WMV	Windows Media Player Video
AVI	AVI Video (codec specified separately)
QT	QuickTime .mov Video (codec specified separately)
MPEG	MPEG Video (MPEG-1 or 2)

Table 11.8. sidlogo: Presence of Burnt-in Logo: defined values

sidlogo	
U	Unknown
Y	Yes - image/video has burnt-in logo
N	No - image/video is clean of bugs

Table 11.9. sinter: Progressive or Interlaced Video Structure

sinter	
I	Video has interlaced frame/field structure

sinter	
P	Video has progressive frames (atomic)

Table 11.10. serrors: Presence of Known Errors: defined values

serrors	
N	None detected
F	Fixed - faulty images/video have been fixed - Quality may have been compromised - sizes/signatures no indicative of original
E	Encoding Only - causes message but renders OK
C	Some Corrupt Images/Segments of video

Table 11.11. scatflag: Generalised type of the set: defined values

scatflag	
F	Fuck - straight sex
L	Lesbian - lesbian sex
G	Group - more than two people having sex, mixed-gender
T	Toy - Solo but uses toys such as dildo, vibrator, etc
S	Solo - Model on her own (possibly with a non-participatory audience)
M	Masturbation - Solo but includes masturbation activities
N	None - not determined yet
В	Backstage - Behind The Scenes set featuring this model
C	Clothed - non-nude set featuring this model
D	Duplicate - duplicate set - maybe from a different site - DEPRICATED

Table 11.12. slocation: generalised description of locations: recommended values

slocation (recommended values)	
Note	
This is a Re	ecommended Values list only; additional values can be added as appropriate
Balcony	Balcony or Terrace; outdoors but not part of Garden
Bathroom	Bathroom, Toilet or Shower Cubicle
Bedroom	Bedroom or other sleeping area
Country	Country - including Beach, Forest, and Fields
Dining Room	Dining Room or Eating Area
Garden	Garden or other private outdoor area
Hallway	Hallway, Staircase or Entrance

slocation (recommended values)	
Kitchen	Kitchen or Kitchen area of apartment
Laundry	Laundry, Cleaning or Utility Area
Lounge	Lounge, Sitting Room or Other Seating Area
Office	Office, including Home PC desk
Other Room	Any other room - (Domestic) Library, Junk Room, Garage, etc
Specialised	Specialised Location: Swimming Pool, Shop, Recording or TV Studio, Factory, Railway Station, etc; additional details can be placed in slocdetail.
Sports	Location associated with Sports and Exercise: Gym, Locker Room, etc.
Studio	White or other plain background Photographic Studio - but NOT Television or Audio recording studios as a feature of the set theme

Table 11.13. sattire: generalised description of model's clothing: recommended values

sattire (recommended values)	
Note This is a R	Recommended Values list only; additional values can be added as appropriate
Business	A tidy business suit or other combination appropriate to an office environment.
Casual	A pretty general category - jeans, denim skirts, summer dresses
Elegant	Particularly stunning dresses or formal evening wear.
Fantasy	Fantasy costumes of all sorts.
Glamourous	A glamourous party dress or similar that is quite risque and is likely to spontaneously reveal the woman's assets!
Housewear	The sort of clothing that is worn casually about the house but not normally in public.
Hospitality	Housemaids and Waitress Uniforms
Law Enforcement	Police and Security Guard Uniforms
Medical	Uniforms appropriate to the Medical Industry
Military	Uniforms appropriate to the Military Services
Nightwear	Pajamas, Baby Doll dresses, Nightshirts
Nothing	Nude!
Partial	Only partially clothed
Retail	Uniforms appropriate to the Retail and other service industries (but not Maids)
Schoolwear	Various uniforms associated with Schoolgirls including cheerleaders and gym slips
Smart	Smart or attractive clothes suitable for going to a party without being elegant or stunning.
Sports	Sportswear - track suits, sports bras, cycling outfit, etc
Swimwear	Bikinis and other swimming costumes

sattire (recommended values)	
Underwear	Just a bra and panties, or similar - BUT does not include a tank top plus panties which with the addition of a skirt or jeans would be presentable outdoor wear.

Table 11.14. suscattr: how to generate the 18 USC 2257 declaration: defined values

suscattr	
V	Vendor based - use vendor's USC declaration address
P	Photographer based - use photographer's address for USC declaration
N	Suppress declaration - NOT RECOMMENDED FOR US RESIDENTS
G	Generic - include generic text with all vendor addresses

Chapter 12. Schema Reference: Assoc

Assoc: Schema SQL

Assoc: Defined Values

Table 12.1. astatus: association status: defined values

astatus	
M	Manually Added
G	Generated Automatically
R	Relationship entry - not the primary model for this set.

Chapter 13. Schema Reference: Idmap Idmap: Schema SQL



Note

A possible future direction is for this table to be relationally linked to the vendors table such that idmap.isite = vendor.vsite

```
create table idmap
( identryno
                                  number(7) primary key,
  imodelno
                                  number(6) references models,
  istatus
                                  char(1),
  isite
                                  varchar2(20) not null,
                                  varchar2(30),
  ikey
  ialtkey
                                  varchar2(30),
  iname
                                  varchar2(30),
  inotes
                                  varchar2(80),
  iactive
                                  char(1),
  ichanged
                                  date,
  ichecked
                                  date,
  iadded
                                  date,
  iamended
                                  date
);
```

Idmap: Defined Values

Table 13.1. istatus: idmap status: defined values

istatus	
M	Manually Added
A	Generated Automatically
I	Imported From Another WACS site

Table 13.2. iactive: model activity status as this identity: defined values

iactive	
Y	Yes - active model (refresh list with auto tools)
D	Dormant - no new sets for a while (don't bother checking)
N	No - inactive (id not known)
0	Obsolete - old reference (no longer there)

Table 13.3. isite: Some recommended site abbrievations: recommended values

isite (recommended values) Note This is a Recommended Values list only; additional values can be added as appropriate ALS ALSScan.com **AMK** AMKingdom.com (aka ATK Galeria) ATE ATKExotics.com **ATKP** ATKPremium.com \mathbf{AW} AbbyWinters.com FJ FemJoy.com IFG infocusgirls.com **JAFN** jennyandfriends.net **KPC** karupspc.com (aka Karup's Private Collection) **KHA** karupsha.com (aka Karup's Hometown Amateurs) SE sapphicerotica.com TF teenflood.com **PMET** PinkMetallic.com, the WACS Demo site

Chapter 14. Schema Reference: Models

Models: Schema SQL



Warning

WACS 0.8.5 contains a significant number of additions to this schema ahead of the shift to the 0.9.x release series. None of these changes are used or accessed by applications in Wacs 0.8.5, so you can defer updating the Schema until Wacs 0.9.0 comes out if you wish to. There will be a tool to update the schema supplied with Wacs 0.9.0. The newly added and currently not used fields are those in **bold** typeface.



Note

Please notice that the use of metric in the vital statistics is not intended to be a dig at the imperial measurements, merely that it reliably and consistantly conveys the necessary information as sensible, manageable integers. Utility functions are planned to make it easier to convert and update in a future release of WACS. You try writing an SQL query to find models between 5ft 3ins and 5ft 6ins in height, as compared to between 160 and 168 cms in height. See what I mean?

```
create table models
                     number(6) primary key,
( modelno
                     varchar2(40),
 mname
  mhair
                     varchar2(15),
 mlength
                     varchar2(20),
  mtitsize
                     varchar2(10),
                     char(1),
 mcupsize
                     varchar2(15),
  meyes
 mrace
                     varchar2(15),
 mattributes
                     varchar2(60),
                     varchar2(60),
 maliases
 mdisting
                     varchar2(80),
 musual
                     varchar2(60),
 mimage
                     varchar2(80),
  mbigimage
                     varchar2(80),
                     varchar2(80),
 mbodyimage
 maltimage
                     varchar2(80),
                     char(1),
 mstatus
 mrating
                     char(1),
                     char(1),
 mpussy
                     varchar2(80),
 mlabia
 mflag
                     char(1),
 mvideos
                     char(1),
 msolo
                     char(1),
                     char(1),
 mstraight
 mlesbian
                     char(1),
  mfetish
                     char(1),
                     char(1),
  mmast
 mtoys
                     char(1),
```

```
char(1),
mother
mnsets
                  number(4),
mnimages
                  number(7),
mnvideos
                  number(4),
mcountry
                  varchar2(30),
mhometown
                  varchar2(80),
mage
                  number(3),
                  number(4),
mageyear
                  char(1),
mcstatus
mvitbust
                  number(4),
mvitwaist
                  number(4),
mvithips
                  number(4),
mbuild
                  char(1),
mheight
                  number(3),
mweight
                  number(3),
mdress
                  number(2),
mstarsign
                  number(2),
moccupation
                  varchar2(30),
mcontact
                  varchar2(80),
mbirthdate
                  date,
monfile
                  char(1),
                  varchar2(80),
magency
mnotes
                  varchar2(240),
mbio
                  varchar2(240),
madded
                  date,
mamended
                  date
```

Models: Defined Values

);

Table 14.1. mstatus: model record status: defined values

mstatus	
A	Automatically Added, Details Not Checked
M	Manually Added, Details Not Checked
N	Normal - Checked
G	Good - Thoroughly Checked
P	Placeholder - Not Real Person

Table 14.2. mrating: model rating: defined values

mrating	
5	Finest (included in Q= searches and front page)
4	Very Good (included in Q= searches and front page)
3	Good (not included in Q= searches, included in front page)
2	Reasonable (not included in Q= searches or front page)

mrating	
1	Mediocre (not included in Q= searches or front page)
0	None Specified (listed in U= searches)

Table 14.3. mpussy: model's normal pubic hair style: defined values

mpussy	
Н	Hairy
T	Trimmed
В	Brazilian style shaved - very little hair above clit area
S	Shaven - completely
V	Varies (best avoided, try and pick one of above - her usual style)
N	Not Specified

Table 14.4. mflag: special marking flag for models: defined values

mflag	
S	Favourite Solo
L	Favourite Lesbian
С	Favourite Cutie
F	Favourite Straight
M	Current Featured Model
P	Placeholder (not a real person)

Table 14.5. model activites flags: defined values

model activ	model activities flags	
fieldname		possible values
	Note	
	Automatical	lly updated by updatestats
mvideos		
msolo		
mstraight		
mlesbian		Y - Yes, does this; N - No, doesn't do this
mfetish		
mmast		
mtoys		

model activities flags	
fieldname	possible values
mother	

Table 14.6. mcstatus: accuracy of home country field: defined values

mestatus	
C	Certain - country of origin stated in bio
I	Inferred - from location or other models seen with
G	Guess - based on photographer or building style
N	None

Table 14.7. mrace: race of the model: defined values

mrace	
Caucasian	Caucasian - European Descent aka White
Oriental	Oriental - Chinese, Japanese, SE Asian
Asian	Indian Sub-Continent - India, Pakistan, etc
Negroid	Negroid - of African Descent aka Black
Aboriginal	Aboriginal - indigenous peoples - First Nation, Polynesian, etc
Latina	Latin American - aka Hispanic
Mixed	Mixed race and others

Table 14.8. mbuild: body type of the model: defined values

mbuild	
V	Very Slim
S	Slim
M	Medium
Н	Heavy

Table 14.9. vital statistics: meanings

vital statistics	
mweight	Weight in Kilos
mheight	Height in centimetres
mvitbust	Bust measurement in centimetres (vital stats part 1)
mvitwaist	Waist measurement in centimetres (vital stats part 2)

Schema Reference: Models

vital statistics	
mvithips	Hips measurement in centimetres (vital stats part 3)

Chapter 15. Schema Reference: Download

Download: Schema SQL

```
create table download
( downloadno
                                          number(7) primary key,
 dmodelno
                                          number(6) references models,
                                          number(9) references sets,
 dsetno
 dstatus
                                          char(1),
 dtype
                                          char(1),
                                          varchar2(20) not null,
 dsite
 dkey
                                          varchar2(30),
 dsetkey
                                          varchar2(40),
 dsetname
                                          varchar2(240),
 dsetflag
                                          char(1),
 dnotes
                                          varchar2(240),
 durl
                                          varchar2(240),
 darchive
                                          varchar2(240),
 dsignature
                                          varchar2(82),
 dsize
                                          number(9),
 dpulled
                                          date,
 dadded
                                          date,
 damended
                                          date
```

Download: Defined Values

Table 15.1. dstatus: download status: defined values

dstatus	
U	Not Yet Attempted
F	Failed - Retry when possible
S	Successful - set registered in database, available
P	Pending - downloaded, awaiting unpacking
A	Aborted - don't download for some reason
D	Deferred - held back from being downloaded
R	Relationship Entry - a second model for a set
L	Liasion - a proto-Relationship Entry not yet linked
E	Error - not the right model, etc
I	In Progress - download currently in progress
X	Incomplete - record of it's existance but too little info to download it

Table 15.2. dtype: download set type: defined values

dtype	
I	Image Set
V	Video Clip
A	Audio File

Table 15.3. dsetflag: Suggested value for scatflag based on parsing result

Note Any valid value for scatflag from the sets table. This is a hint on the set type based upon the parsing process picking out keywords

Chapter 16. Schema Reference: Photographer

Photographer: Schema SQL

```
create table photographer
                  varchar2(6) primary key,
( pref
 pname
                   varchar2(40),
 paliases
                 varchar2(80),
 pgender
                  char(1),
 paddress
                   varchar2(120),
 pemail
                   varchar2(80),
 pwebsite
                   varchar2(80),
 pusual
                   varchar2(40),
 pregion
                   varchar2(20),
 pcountry
                   varchar2(50),
 plocation
                   varchar2(50),
 pstyledesc
                   varchar2(80),
 prating
                   number(2),
 phardness
                   number(2),
 psolo
                   char(1),
 ptoys
                   char(1),
                   char(1),
 plesbian
 pstraight
                   char(1),
                   char(1),
 pgroup
 pfetish
                   char(1),
                   char(1),
 pdigital
                   char(1),
 pfilm
                   char(1),
 pvideo
 phdvideo
                   char(1),
 pcamera
                   varchar2(40),
                   varchar2(80),
 pcamnotes
 pcomments
                   varchar2(240),
                   varchar2(240),
 pnotes
                   varchar2(1024),
 pbiography
                   date,
 padded
 pamended
                   date
```

Photographer: Defined Values

Table 16.1. pgender: gender of the photographer: defined values

pgender	
M	Male
F	Female

pgender	
U	Unknown

Table 16.2. pregion: geographical location of the photographer: defined values

pregion	
Europe	Europe
North America	USA and Canada
South America	South and Central America
Middle East	Middle East (brave photographer!)
Asia	Asia (India and the Indian Sub-continent ONLY)
Orient	Orient (Asia excluding Indian Sub-continent)
Australasia	Australia and New Zealand
Africa	Africa
Other	Other

Table 16.3. prating: overall rating of photographer: defined values

prating	
0	None
1	Awful - poor equipment and technique
2	Poor - uninteresting and badly composed/exposed work
3	Reasonable - technically OK, but very unenterprising
4	Good - good technique, interesting compositions and direction
5	Excellent - Excellent technique, interesting and challenging compositions and direction

Table 16.4. phardness: rating of how explicit this photographer can be: defined values

phardness	
0	None - Not Rated
1	Soft-focus (very arty)
2	Glamour - sharp but no open leg, genital detail, etc
3	Normal - wide range of shots but not particularly strong
4	Hard (close-ups)
5	Fetish - pretty extreme, gaping, etc

Table 16.5. photographer activites covered flags: defined values

photographer activities covered flags	
fieldname	possible values
psolo	
ptoys	
plesbian	V. Voc docathin N. Na docath dothin O. Occasionally docathin
pstraight	Y - Yes, does this; N - No, doesn't do this; O - Occasionally does this
pgroup	
pfetish	

Table 16.6. photographer technologies used flags: defined values

photographer technologies used flags	
fieldname	possible values
pdigital	
pfilm	Y - Yes, uses this technology; N - No, doesn't use this technology.
pvideo	
phdvideo	

Chapter 17. Schema Reference: Tag Tag: Schema SQL

```
create table tag
( tagno
                                 number(9) primary key,
  tmodelno
                                 number(6) references models,
 tsetno
                                 number(9) references sets,
 tstatus
                                 char(1),
  tflag
                                 char(1),
                                 number(6),
 tgroup
  tdesc
                                 varchar2(40),
                                 varchar2(20),
  towner
  texpiry
                                 date,
  tadded
                                 date,
  tamended
                                 date
);
```

Tag: Defined Values

Table 17.1. tstatus: tag entry status: defined values

tstatus	
T	Temporary - expire as per expiry rules
V	Viewed, Temporary - expire as per expiry rules, hide from index
P	Permanent - don't expire, show in index
A	Archived - don't expire, don't show in normal indexes

Table 17.2. tflag: tag content type status: defined values

tflag	
M	Model-based tag entry
S	Set-based tag entry

Chapter 18. Schema Reference: Vendor

Vendor: Schema SQL

```
create table vendor
                  varchar2(20) primary key,
( vsite
 vname
                   varchar2(45),
                   varchar2(20) not null,
 vshortname
 vregion
                   varchar2(20),
 vcountry
                   varchar2(50),
 vweburl
                   varchar2(120),
 vsignup
                   varchar2(120),
 vrating
                   number(2),
 vtechrate
                   number(2),
 vuscdecl
                   varchar2(240),
 vcurrent
                   char(1),
 vshow
                   char(1),
 vsubscribed
                   char(1),
 vuntil
                   date,
 vusername
                   varchar2(80),
 vpassword
                   varchar2(30),
 vidtimg
                   number(2),
 vidtvid
                   number(2),
 vcomexcl
                   varchar2(240),
 vmdirectory
                   varchar2(240),
 vmdiruse
                   char(1),
 vmdirpages
                   number(3),
                   varchar2(240),
 vmpage
 vmpaguse
                   char(1),
 vmbio
                   varchar2(240),
 vmbiouse
                   char(1),
 vmvideos
                   varchar2(240),
 vmviduse
                   char(1),
 vvidpage
                   varchar2(240),
 vviduse
                   char(1),
                   varchar2(240),
 vimqpaqe
 vimguse
                   char(1),
 valtpage
                   varchar2(240),
 valtuse
                   char(1),
 vsrvimg
                   varchar2(240),
                   varchar2(240),
 vsrvvid
 vmultimg
                   char(1),
 vmultvid
                   char(1),
                   varchar2(240),
 vnotes
 vadded
                   date,
 vamended
                   date
```

Vendor: Defined Values

Table 18.1. vcurrent: vendor existance status: defined values

vcurrent	
Y	Yes - still an active site
N	No - no longer trading at that web address

Table 18.2. vshow: vendor index inclusion status: defined values

vshow			
	Note		
	This option only really affects vendormode and vendor-based lists of models; if you do use vendor mode, it's not likely to be relevant.		
Y		Yes - show in indices	
N		No - hide from indices	

Table 18.3. vmdiruse et al: vendor URL auto-usuability status: defined values

vmdiruse et al			
fieldname	page purpose	possible values	3
vmdiruse	Model Directory	Y	link is (auto)usable
vmpaguse	Model Page	N	link is not (auto)usable
vmbiouse	Model Biography	S	link usable only with session key
vmviduse	Model's Videos Page		
vviduse	Video Set Page		
vimguse	Image Set Page		
valtuse	Alternate Image Set Page		

Chapter 19. Schema Reference: Conn

Conn: Schema SQL

```
create table conn
( centryno
                                 number(9) primary key,
 cgroup
                                 number(6),
 corder
                                 number(3),
 cflag
                                 char(1),
 cstatus
                                 char(1),
 cmodelno
                                 number(6) references models,
 csetno
                                 number(9) references sets,
 cphotog
                                 varchar2(6) references photographer,
 ctype
                                 varchar2(20) not null,
 cdesc
                                 varchar2(80),
                                 varchar2(240),
 ccomments
                                 varchar2(160)
 cpath
 cadded
                                 date,
 camended
                                 date
```

Conn: Defined Values



Warning

Conn (connections) is a recent addition and not all parts of the toolchain are in place yet. As the management tools are added, it is expected that at least the legal values for fields will change and be expanded.

Table 19.1. cflag: connection type: defined values

cflag	
A	Ad-Hoc - A casual index of some random theme
G	Gallery - A slightly more focused collection with a specific concept behind it.

Table 19.2. cstatus: connection entry status: defined values

cstatus	
M	Manually Added
T	Imported from a Tag set

Chapter 20. Schema Reference: Keyword

Keyword: Schema SQL

```
create table keyword
( kentryno
                         number(9) primary key,
 kflag
                         char(1),
 kword
                         varchar(30) not null,
 kexclusions
                         varchar(120),
                         varchar(20),
 kiloc
 kiscore
                         number(1),
 kicat
                         char(1),
                         number(1),
 kicscore
 kidet
                         varchar(40),
 kidscore
                         number(1),
 kiattr
                         varchar(30),
                         number(1),
 kiascore
                         varchar(40),
 kiwear
 kiwscore
                         number(1),
 kiother
                         varchar(40),
                         number(1),
 kioscore
 knotes
                         varchar(80),
 kadded
                         date,
 kamended
                         date
);
```



Note

From WACS 0.8.2, the kiother and kioscore fields are used to determine values for the sattire field in the sets schema. New fields kiwear and kiwscore were introduced in WACS 0.8.5 and will be used for values for the sattire fields from WACS 0.9.x freeing kiother and kioscore for their original purpose of being spare for future functionality.

Keyword: Defined Values

Table 20.1. kflag: active entry status: defined values

kflag	
A	Applies to All Added
N	Not Active (Ignore)

Chapter 21. Schema Reference: User

User: Schema SQL

```
create table user
                         number(9) primary key,
( userid
                         varchar2(20) not null,
 username
 upassword
                         varchar2(20) not null,
 ustatus
                         char(1),
                         char(1),
 utype
 uvisits
                         number(6),
 uclass
                         varchar2(20) not null,
 uprexcl
                         varchar2(20),
                         char(1),
 uprdirect
                         varchar2(20),
 uprpage
 uprscale
                         varchar2(20),
                         varchar2(12),
 uprsize
 uprquality
                         number(3),
 uprdelay
                         number(3),
 uprunits
                         char(1),
 uprthumbs
                         varchar2(20),
 uprother
                         varchar2(20),
 uregister
                         date,
 uexpiry
                         date,
 ulastact
                         date,
 ulastconn
                         date,
 ulastcomm
                         date,
 ulasttopic
                         varchar2(40),
 upurge
                         date,
 uemail
                         varchar2(120),
 ualtemail
                         varchar2(120),
 uscreenname
                         varchar2(30),
 urealname
                         varchar2(80),
 uaddress1
                         varchar2(80),
 uaddress2
                         varchar2(80),
 ucity
                         varchar2(50),
 uprovince
                         varchar2(30),
 ucountry
                         varchar2(30),
                         varchar2(20),
 upostcode
 utelephone
                         varchar2(30),
 uallowed
                         char(1),
 uthirdp
                         char(1),
 uiointhru
                         varchar2(30),
 ureference
                         varchar2(120),
 upayamount
                         number(4,2),
 upaycurr
                         varchar2(10)
 ulinkfrom
                         varchar2(120),
 urebill
                         char(1),
                         char(1),
 ucommpay
 ucommission
                         varchar2(80),
```



Note

The user schema is a new table introduced in WACS 0.8.5; it is not available or supported prior to that release. Only certain fields of this table are supported and used within the standard WACS tools; the additional fields are utilised by the *WacsPro* commercial site management toolset available seperately from Bevtec Communications Ltd [http://www.bevteccom.co.uk/]. To ensure compatibility, the recommended values used in all fields are described here.

User: Defined Values

Table 21.1. ustatus: User Account Status: defined values

ustatus	
A	Active - this account is currently active
E	Expired - this user account has expired
P	Pending - user needs to complete verification step
S	Suspended - access temporarily suspended - leaked password, etc

Table 21.2. utype: User Type: defined values

utype	
F	Friend (or Freebie) - account granted free access
S	Subscriber - a subscription account

Table 21.3. uclass: User Class: defined values

uclass	
viewer	a normal user account
power	power user with enhanced rights, can see most of the administration tools but can't make significant changes to the collection. Primarily intended for support staff
admin	system and collection administrator - full administrative rights

Chapter 22. Schema Reference: Attrib

Attrib: Schema SQL



Note

The attrib schema was introduced in WACS 0.8.5 but is not used at all by that release. It will be used in a future release.

```
create table attrib
                      number(9) primary key,
( atrecno
 atkeyword
                      varchar2(30),
 atsource
                      char(1),
 atrecognise
                      char(1),
 atallowadd
                      char(1),
 atdisplay
                      char(1),
 atshortdesc
                      varchar2(50),
 atlongdesc
                      varchar2(240),
 aticon
                      varchar2(160),
 atgroup
                      varchar2(30),
 atimplicit
                   char(1),
                      char(1),
 atvalidset
 atvalidmodel
                      char(1),
 atvalidother
                      char(1),
 atmarkset
                      char(1),
 atmarkmodel
                    char(1),
 atmarkother
                      char(1),
 atsetsearch
                      char(1),
 atmodsearch
                      char(1),
 atcombsearch
                      char(1),
 atothsearch
                      char(1),
 atsetdetail
                      char(1),
 atmoddetail
                      char(1),
 atcombdetail
                      char(1),
 atothdetail
                      char(1),
 atnotes
                      varchar2(240),
 atadded
                      date,
 atamended
                      date
```

Attrib: Defined Values

Chapter 23. Schema Reference: Notes

Notes: Schema SQL

```
create table notes
                                       number(9) primary key,
( nentryno
 ntype
                                       char(1),
 norder
                                       number(3),
 ntitle
                                       varchar2(80),
 ntext
                                       varchar2(2048),
                                       char(1),
 nstatus
                                       number(9) references notes,
 nnext
 nexpiry
                                       date,
 nmodelno
                                       number(6) references models,
 nsetno
                                       number(9) references sets,
                                       varchar2(6) references photographers,
 nphotog
 nconn
                                       number(6),
                                       varchar2(120),
 ncomments
 nadded
                                       date,
 namended
                                       date
```

Notes: Defined Values



Warning

Notes is a brand new addition as at Wacs 0.8.5 and is not going to be used until at least the next release of Wacs. It is intended to provide a mechanism for attaching additional text to models, connections and as a basis for a simple site blog mechanism. All values given below are subject to change therefore.

Table 23.1. ntype: notes type: defined values

ntype		
В	Site Blog entry	
C	Connection Descriptive Text - more about a connection	
M	Model Biography - an extended biography	

A addassoc, 94 addheadercss, 62 addkeyicons, 69 Using, 37 addlinks, 72 addratings, 70 add_auth, 47 alloc_nextkey, 95 alsofeaturing, 73 assoc	dsetflag values, 115 dstatus values, 114 dtype values, 115 Field Listing, 114 dsetflag, 115 dstatus, 114 dtype, 115 Dynamic Content, 40 F findmodel, 84 findrecentmodels, 86 findrecentsets, 85 find_config_location, 48
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