

Using Views Programmatically

Jason Yee - Aten Design Group

Email: jason@atendesigngroup.com

Twitter: [@jasonjyee](https://twitter.com/jasonjyee)

Session: http://bit.ly/badcamp_uvp

Module: http://bit.ly/views_prog

Views

- Most installed module. About 272,000 installs in Drupal 6, and over 90,000 in Drupal 7 (10,000 in the past month!).
- Easily allows you to create lists of information in a friendly interface with Views UI
- But...

Views UI Problem

Views trades some functionality in order to achieve its streamlined UI

Limitations fall into two categories

- Display/format issues
- Data issues

Display/Format Solutions

- Use the Views UI field rewrite functionality
- Use templates to rewrite output

Data Solutions

- Take advantage of Views hooks to manipulate data
- Understanding the life of a view

The Life of a View

views_get_view(\$view_name str)

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  $view->set_display($display str)
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    $view->display_handler->build()
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      hook_views_query_substitutions()
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      hook_views_query_alter(&$view obj, &$query obj)
    $view->display_handler->attach_displays()
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  $view->display_handler->query->execute()
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hook_views_query_alter()

- Views' \$query object is similar to Drupal's \$query object
- Lots of methods, see module to dpm a list or look in `views/plugins/views_plugin_query_default.inc`

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views_get_view($view_name str)
$view->execute_display($display str, $args, arr)
  $view->set_display($display str)
  $view->pre_execute($args arr)
    hook_views_pre_view(&$view obj, &$display str, &$args arr)
    arguments added to view object
  $view->display_handler->execute()
  $view->display_handler->build()
    hook_views_pre_build(&$view obj)
    hook_views_query_substitutions()
    arguments, filter, sorting, grouping processed and preliminary query built
    hook_views_query_alter(&$view obj, &$query obj)
  $view->display_handler->attach_displays()
  hook_views_post_build(&$view obj)
  hook_views_pre_execute(&$view obj)
  $view->display_handler->query->execute()
    hook_query_alter($query obj)
    hook_query_TAG_alter($query obj)
    views_query_views_alter()
  hook_views_post_execute(&$view obj)
$view->render()
  hook/theme_views_pre_render(&$view obj)
hook/theme_views_post_render(&$view obj, &$output str,
&$cache obj)
```

```
hook_views_post_render()
```

Questions?

Using Views Programmatically

Jason Yee - Aten Design Group
Email: jason@atendesigngroup.com
Twitter: [@jasonjyee](https://twitter.com/jasonjyee)

Session: http://bit.ly/badcamp_uvp
Module: http://bit.ly/views_prog