

# Developer Track

Kurogo HigherEd User Conference

April 2, 2013





# Agenda

- Improvements in Kurogo 1.8
- Tips and Tricks
- Afternoon Session





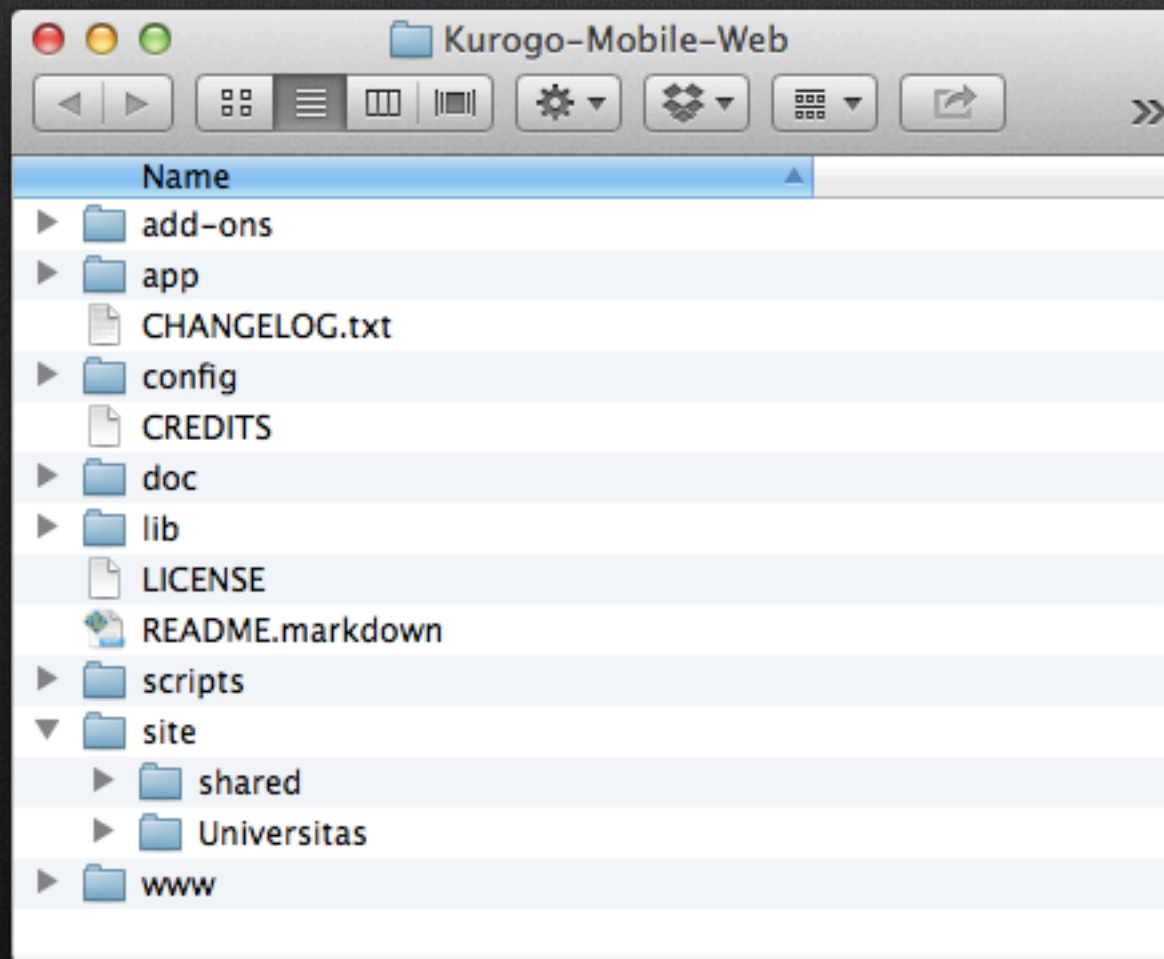
# Kurogo 1.8

- Update site configuration
- Default configuration files
- Updated Theming
- User Contexts
- Desktop Interface





# Updated Site Layout



1.5



1.8





# Updated Site Layout

- /etc/kurogo/kurogo.ini
- Apache Environment Vars (SetEnv)
- SITES\_DIR
- CONFIG\_MODE
- host & urlBase in sites.ini





# Default Config Files

- Kurogo will load
  - app/common/config/X
  - app/modules/module/config/X
- You can remove redundant configuration files and keys
- See Updated Universitas





# Updated Theming

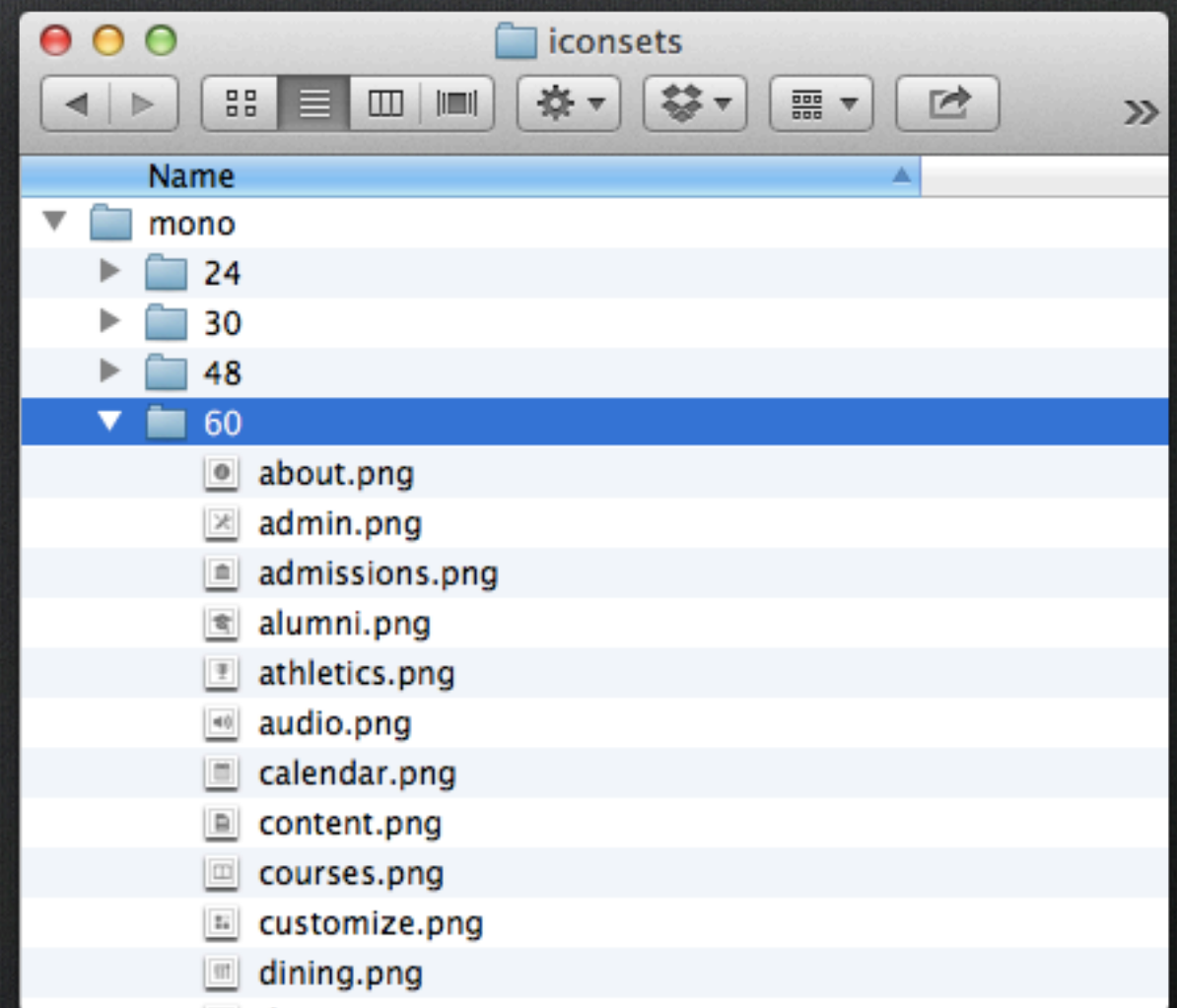
- theme.ini replaces themes folder
- app/common/images
- iconsets!





# Icon Sets

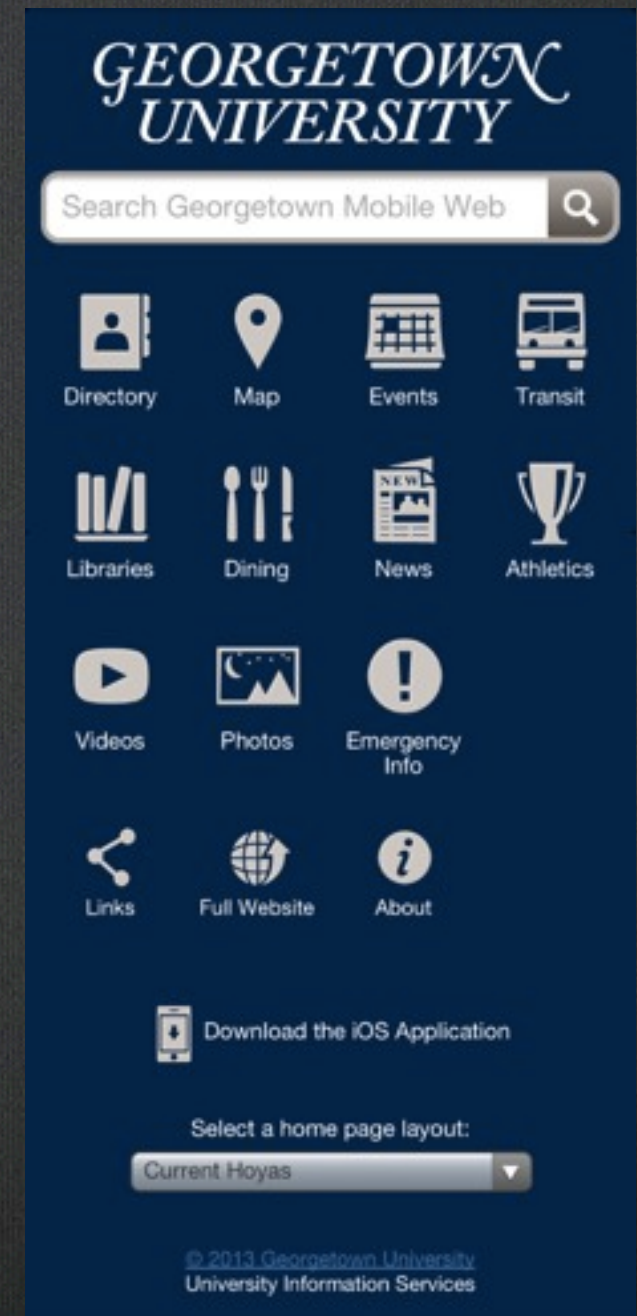
- Too many confusing locations!
- Grouped by Icon Size
  - 30/60/120 are used
- theme.ini
  - navigation\_icon\_set
  - title\_icon\_set
  - customize\_icon\_set
- module.ini
  - ICON





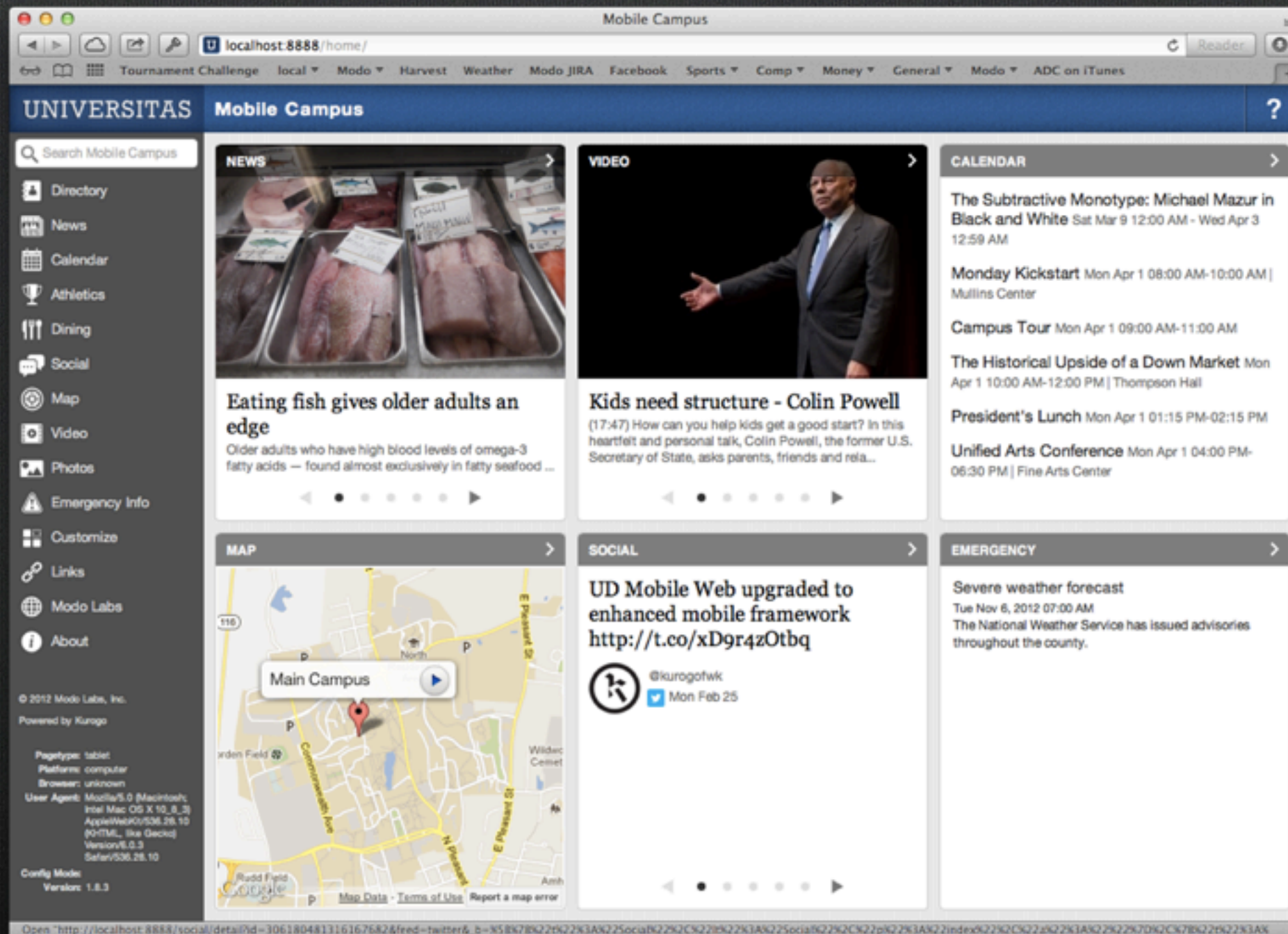
# User Contexts

- Home Screen Customization by group
- User selects group
- *navigation-context.ini*





# Desktop Interface





# Tips and Tricks





# Kurogo::arrayVal

- Don't assume array value exists!
- if statements are tedious, especially when parsing feeds.

```
if ( isset($array['val']) ) {  
    $var = $array['val'];  
} else {  
    $var = 'default'  
}
```

```
$var = Kurogo::arrayVal($array, 'val', 'default');
```





# Debugging

- KurogoDebug::debug(\$var, true);
- REDIRECT\_ON\_EXCEPTIONS = 0
- LOGGING\_LEVEL[X] = LOG\_DEBUG
- Kurogo::log(\$priority, \$message, \$area)





# Cache

- **CACHE\_LIFETIME**
  - defined in feed
  - 0 means no cache
  - Default cache is 900 (15 min)
  - Change default in **site.ini** [data\_retriever]
  - Works for common feeds
- What about volatile or user specific feeds?





# Cache

```
// DataRetriever

// use cache group. Saves cache in subfolder
$this->setCacheGroup($userID);

// clear data in cache group
$this->clearCacheGroup($userID);

// set cache lifetime dynamically
$this->setCacheLifeTime($seconds);

// using the Memory Cache
Kurogo::setCache($key, $value);
Kurogo::getCache($key);

// using DiskCache
$cache = new DiskCache(CACHE_DIR."/folder", $lifetime, true);
$fresh = $cache->isFresh($file);
$data = $cache->read($file);
$cache->write($file);
```





# Repeating feed settings

- [feeds] section in module.ini
  - Will repeat to all entries in feeds.ini
- [schedule] section in Athletics module.ini
  - Will repeat to all entries in schedule.ini





# HomeAlertInterface

- Emergency Module shows alert
- Any module can display an alert

```
MyWebModule extends webModule implements HomeAlertInterface {  
    // snip snip  
    public function getHomeScreenAlert() {  
        // get some data  
        return array(  
            'title' => 'Alert Title';  
            'description' => 'Lorem ipsum dolor sit amet',  
            'date' => DateFormatter::formatDate($date),  
            'unixtime' => $timestamp,  
        );  
    }  
}
```





# Item Classes

- Override default Data Object
- ITEM\_CLASS (News, NewsItem)
- EVENT\_CLASS (Calendar, ICalEvent)
- PERSON\_CLASS (People, Person)
- get/setTitle
- get/setDescription





# ItemsListDataModel

- interface SearchDataRetriever
  - Web service has search
  - public function search(\$searchTerms, &\$response=null);
- interface ItemDataRetriever
  - Web service can retrieve distinct item
  - public function getItem(\$id, &\$response=null);

