DIGH 402 - Introduction to Digital Humanities Design and Programming

Spring Semester 2014

Week 15

Object Oriented Programming

Object Oriented Programming - Abstract overview of current framework structure

updated frame/controller/taxonomy.php

- taxonomy&id=1 type query now checks DB for children if no content available
    - used as a check for all content for overall parent taxa
    - eg: Devon (id=1) which also contains Brixham (id=3) and Torquay (id=4)

- new taxonomy_content_check() and taxonomy_child_query() methods

- getter method queries taxonomy_content_check() method
    - if content is available for the taxa itself, then db_results is returned as expected
    - if no content, then child taxa are found and content checked and returned

Object Oriented Programming

Object Oriented Programming - Abstract overview of current framework structure

related links for selected taxa id

- uses taxa_id in URI to query DB for parent and child related links from taxonomy and taxonomy_lookup
    - eg: taxonomy&id=1 or taxonomy&id=3

- checks if parent is available for taxa id
    - if parent then it outputs parent and child links (no repetition of current taxa id in URI)
    - if no parent simply outputs child links
    - eg: Brixham outputs Devon and Torquay
        Devon outputs Brixham and Torquay

- 'groups' works in the same manner and outputs parent and child or just child links for taxa_id in URI

[GitHub Code](#)

Object Oriented Programming

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related links for selected format and content id

- similar implementation and functionality as taxonomy&id=3

- new getter method and content_related_check() method in frame/controller/taxonomy.php
    - requires params['id'] and new params['format'] parameters
    - gets taxa_id for given format and content_id using new method contentformat_taxa_query()
    - then passes taxa_id to taxonomy_related_check() method

- examples
    - text&id=15
    - image&id=15

GitHub Code

Object Oriented Programming

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related links for selected content id

- gets related taxa links for content&id=15

- check is part of conditional check in content_related_check() method

- new method content_taxa_query() in frame/controller/taxonomy.php
    - uses params['id'] parameter to get taxa_id for content_id
    - returns results to content_related_check() method
    - related links are processed and output for rendering as before

GitHub Code

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related links for selected taxa id - updated view

- related_links array passed to draw_middle() method in View class
    - then passed to draw_sidebar()

- new draw_related_links() method in View class
    - checks for array in passed parameter
    - sets HTML for required rendering of related links in vertical menu layout
    - iterates over related_links array and outputs each link as list item in unordered list

GitHub Code

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content check and output for multiple material - check formats

- checks content table for contentid and returns available formats
    - eg: image, text…

- new getter and method content_format_query() to check for available content formats
    - accepts format and content id as parameters
    - queries DB to get all formats for the content id
    - checks returned results against format parameter and refines results
    - returns results to Loader
    - check for current controller and format, then unset/remove from related content array

- related content array is then passed to draw_theme() method
    - allows us to decide where to output and render our related content links
    - passed as parameter to draw_middle() method

GitHub Code

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<u>content check and output for multiple material - view related content links</u>

- returned related content such as contentimage, contenttext etc is now passed to View class

- related content is then passed from draw_middle() to draw_sidebar()

- related content links are then drawn using draw_related_content() method
    - rendered as now standard unordered list using vertical menu class

GitHub Code

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search controller and viewer

- same design pattern as other controllers and viewers
    - frame/controller/search.php and frame/view/search.php

- plugins_lookup updated to enable pager etc for search viewer

- frame/view/search.php outputs search results in a table layout
    - follows same design pattern as frame/view/taxonomy.php
    - link for text modified to include extra parameter for user search query
        - eg: query=brixham

- queries currently match lower and upper case word, query strings are not case sensitive

GitHub Code 1 | GitHub Code 2

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search form - basic site wide option

- new controller and view for basic search option

- search form added as draw method within View class, which is rendered in header section of site

- frame/controller/search.php accepts user search query and controller as parameters
	- search_row_query() method performs full-text query of content table in DB
	- results returned to Loader class

GitHub Code

Object Oriented Programming

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search form - basic site wide option

- new frame/view/search.php handles the rendering of the returned results

- outputs search results as a table using the same template as taxonomy etc

- modified title and description in sidebar to reflect search results and search query

- appends query result as highlight parameter to URI for view text page
    - highlighter plugin highlights search query within matched search result texts

[GitHub Code 1](#) | [GitHub Code 2](#)

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maps controller and view

- new column in content table and new content type 'map' in content_type table

- new column 'contentmap' accepts latitude and longitude as comma separated value
    - eg: 50.39747,-3.51490
    - this value is used to render map at correct latitude and longitude coordinates

- map controller gets required DB results for specified content id requested by user in URI
    eg: content/map&id=31

- map viewer renders the required map_canvas div for Google Maps API

- map plugin gets coordinates from map_canvas attribute 'coordinates
    - renders coordinates to sidebar and adds them to maps output
    - map is drawn to map_canvas div

[GitHub Code 1](#) | [GitHub Code 2](#) | [GitHub Code 3](#)

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maps

- plugins, related taxa, related content all applicable in sidebar...

- example can be found at the following URL

[Brixham Harbour map](#)

Object Oriented Programming

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maps in a group - addition of 'atlas'

- maps are now grouped into an 'atlas'

- viewer added for group 'atlas'
    - follows the same pattern as book etc
    - eg: Brixham maps

- plugins etc can also be developed and easily added for this new group, same as books etc…

GitHub Code 1

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[Week 15 version of 402framework](#)