HARNESSING THE POWER OF VIEWS

ALINA NEVINS, YALESITES DRUPALCAMP 2016
What is “Views”? 
Create a view 
Customize the view 
Page display 
Block display 
Sort & filter
You have a site with content already
Fields: title, image, description, and campus area
WHAT IS “VIEWS”? 

Make custom lists
Control how they are displayed
Control where they are displayed
“Work smarter, not harder”
# CUSTOM DATABASE QUERY

<table>
<thead>
<tr>
<th>Title</th>
<th>Content Type</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yale Archeologist Finds New Dinosaur</td>
<td>News</td>
<td>Susan</td>
</tr>
<tr>
<td>DrupalCamp 2016</td>
<td>Event</td>
<td>Nancy</td>
</tr>
<tr>
<td>Lunch</td>
<td>Event</td>
<td>Bobby</td>
</tr>
<tr>
<td>About Us</td>
<td>Basic Page</td>
<td>Nancy</td>
</tr>
<tr>
<td>Contact Us</td>
<td>Webform</td>
<td>Susan</td>
</tr>
<tr>
<td>FAQ</td>
<td>Basic Page</td>
<td>Tim</td>
</tr>
<tr>
<td>Restaurant Week Returns!</td>
<td>News</td>
<td>Susan</td>
</tr>
</tbody>
</table>
HOW CONTENT CAN BE DISPLAYED

List of Pages
• Page one
• Page two
• Page three
• Page four
• Page five
• Page six

<table>
<thead>
<tr>
<th>Author</th>
<th>Date</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anna</td>
<td>12/1</td>
<td>News</td>
</tr>
<tr>
<td>Anna</td>
<td>3/17</td>
<td>Event</td>
</tr>
<tr>
<td>Bob</td>
<td>5/20</td>
<td>Event</td>
</tr>
<tr>
<td>Carol</td>
<td>2/28</td>
<td>News</td>
</tr>
<tr>
<td>Dan</td>
<td>9/15</td>
<td>Basic Page</td>
</tr>
</tbody>
</table>

Custom fields with custom display (teaser-list)

All Buildings

Hall of Graduate Studies
This is the location of the Center for Teaching and Learning as well as the contains academic department and faculty offices, as well as classrooms and housing.

Era: 1910-1950
Neighborhood: Broadway

360 State
360 State Street is a 300-foot (91 m) residential skyscraper completed in Connecticut. It is the second-tallest building in the city, and the largest apartment building.

Era: 1980-Today
Neighborhood: Ninth Square

Sterling Law Building
Sterling Law Building houses the Yale Law School. It is located at 127 Water Street, Connecticut, close to the downtown area, in the heart of the Yale campus.

Era: 1910-1950
Neighborhood: Broadway
WHERE CONTENT CAN BE DISPLAYED
PAGE DISPLAY

Yale University

Undergraduate Research at Yale

Home ➔ Labs

Howard Lab

Department: Molecular Biophysics & Biochemistry (MB&B)
PI: Jonathon Howard
Lab Specialty: Small Molecule Assembly

Flannery Laboratory

Department: Obstetrics, Gynecology, & Reproductive Sciences-YSM
PI: Clare Ann Flannery
Lab Specialty: Insulin Resistance, Type 2 Diabetes Mellitus

Reinke Lab

Department: Genetics - YSM
PI: Valerie Reinke
Lab Specialty: Germ Cells, Genome Integrity

Louvi Lab

Search for Labs

Lab Name

Department
- Any -

Lab Specialty

Principal Investigator
- Any -

Interviewers

Undergraduate Researcher

Sort by
- Order

Search
CREATING A NEW VIEW
NEW VIEW WIZARD
NEW VIEW WIZARD: CREATE A PAGE
NEW VIEW WIZARD: CREATE A BLOCK

- **Block title**: Science Labs
- **Display format**: Unformatted list of titles (linked)
- **Items per page**: 5
- **Use a pager**

Options:
- **Save & exit**
- **Continue & edit**
- **Cancel**
CUSTOMIZE THE VIEW: DISPLAYS

Modify the display(s) of your view below or add new displays.

Display name: Page

**TITLE**
Title: Science Labs

**FORMAT**
Format: Unformatted list | Settings
Show: Fields | Settings

**FIELDS**
Content: Title | Add
Content: Published (Yes)
Content: Type (eq Lab)

**FILTER CRITERIA**

**SORT CRITERIA**
Content: Post date (desc)

**PAGE SETTINGS**
Path: /science-labs
Menu: No menu
Access: Permission | View published content

**HEADER**

**FOOTER**

**PAGER**
Use pager: Full | Paged, 10 items
More link: No

**Advanced**
CUSTOMIZE THE VIEW: OVERVIEW
ADD FIELDS

Selected: Content: Lab Site, Content: Body, Content: Campus Area

Add and configure fields
Configure Field: Content: Body

- All displays
  - This page (override)

Appears in: node:page, node:news, node:event, node:slideshow, node:lab, node:faq, node:job_posting. Also known as: Content: Lab information, Content: Body, Content: Event description, Content: Description, Content: Answer, Content: Job Description.

- Create a label
  - Enable to create a label for this field.

Label
- Body

- Place a colon after the label

Exclude from display
- Enable to load this field as hidden. Often used to group fields, or to use as token in another field.

Formatter
- Default

Style Settings

Apply (this display)  Cancel  Remove
CONFIGURE FIELD: FIELD: IMAGE

Configure field: Field: Image

For: This page (override)


- Create a label
  Enable to create a label for this field.
  Label:
  Image
  Place a colon after the label

- Exclude from display
  Enable to load this field as hidden. Often used to group fields, or to use as token in another field.

Formatter

- None (original image)
  adaptive
  threshold-480
  threshold-768
  threshold-992
  threshold-1382
  flexslider_full
  Thumbnail (100x100)

- Nothing

Apply (this display)
CONFIGURE CONTENT: LAB SITE

Configure field: Field: Website

For: This page (override)

Appears in: user:user, taxonomy_term:principal_investigator, node:lab. Also known as: Content: Lab Site, Taxonomy term: Lab Website, User: Website.

- Create a label
  Enable to create a label for this field.
  
  Label
  Website

- Place a colon after the label

- Exclude from display
  Enable to load this field as hidden. Often used to group fields, or to use as token in another field.

Formatter
Title, as link (default)

- STYLE SETTINGS

- NO RESULTS BEHAVIOR

Apply (this display)  Cancel  Remove
CONFIGURE CONTENT: TITLE

Configure field: Content: Title

For: This page (override)

The content title.

- Create a label
  Enable to create a label for this field.

- Exclude from display
  Enable to load this field as hidden. Often used to group fields, or to use as token in another field.

- Link this field to the original piece of content
  Enable to override this field's links.

**STYLE SETTINGS**

- Customize field HTML

  **HTML element**
  
  Choose the HTML element to wrap around this field, e.g. H1, H2, etc.

- Create a CSS class

- Customize label HTML

- Customize field and label wrapper HTML

- Add default classes
  Use default Views classes to identify the field, field label and field content.

Apply (this display)  Cancel  Remove
### REARRANGE FIELDS

#### Rearrange fields

**For**: This page (override)  

<table>
<thead>
<tr>
<th>Field: Image  *</th>
<th>REMOVE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Remove</td>
</tr>
<tr>
<td>Content: Title</td>
<td>Remove</td>
</tr>
<tr>
<td>Content: Body</td>
<td>Remove</td>
</tr>
<tr>
<td>Field: Website  Website</td>
<td>Remove</td>
</tr>
<tr>
<td>Content: Campus Area Campus Area  *</td>
<td>Remove</td>
</tr>
</tbody>
</table>

[Apply (this display)  Cancel]
FILTER BY CAMPUS AREA

Add filter criteria
For: This page (override)

Search: campus area
Filter: All

Content: Campus Area (field_campus_area)
Appears in: node:lab.

Selected: Content: Campus Area (field_campus_area)

Apply (this display)  Cancel
FILTER BY CAMPUS AREA

Configure filter criterion: Content: Campus Area (field_campus_area)

For: This page (override)

Appears in: node:lab.

- [ ] Expose this filter to visitors, to allow them to change it

Filter type to expose

- Single filter
- Grouped filters

Grouped filters allow a choice between predefined operator|value pairs.

- [ ] Required

Label

Select Campus Area

Description

Operator

- Is one of
- Is all of
- Is none of

Select terms from vocabulary Campus Area

- Central Campus
- Medical School
- Science Hill
- West Campus

Apply (this display)  Cancel  Remove
**SORT BY LAB NAME**

Add sort criteria

**For** This page (override)

**Search** lab name **Filter** - All -

- Content: Lab Name (field_lab_name)
  Appears in: node:jobPosting.

- Content: Lab Name (field_lab_name:format)
  Appears in: node:jobPosting.

**Selected**: Content: Lab Name (field_lab_name)

Apply (this display)  Cancel
SORT BY LAB NAME

Configure sort criterion: Content: Lab Name (field_lab_name)

For: This page (override)

Appears in: node:jobPosting.

- Expose this sort to visitors, to allow them to change it

Label *
- Lab Name

- Sort ascending
- Sort descending

MORE

Apply (this display)  Cancel  Remove
VIEW THE EXPOSED FILTERS
CUSTOMIZE THE VIEW: OVERVIEW

Modify the display(s) of your view below or add new displays.

### Displays

<table>
<thead>
<tr>
<th>Master</th>
<th>Page</th>
<th>Block</th>
<th>Add</th>
</tr>
</thead>
</table>

#### Page details

**Display name**: Page

<table>
<thead>
<tr>
<th><strong>TITLE</strong></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Title: Science Labs</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>FORMAT</strong></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Format: Unformatted list</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Show: Fields</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>FIELDS</strong></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Content: Title</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Content: Published (Yes)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Content: Type (= Lab)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>FILTER CRITERIA</strong></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>SORT CRITERIA</strong></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>PAGE SETTINGS</strong></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Path: /science-labs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Menu: No menu</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Access: Permission</td>
<td>View published content</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>HEADER</strong></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>FOOTER</strong></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>PAGER</strong></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Use pager: Full</td>
<td>Paged, 10 items</td>
<td></td>
</tr>
<tr>
<td>More link: Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[View Page]
CUSTOMIZE THE VIEW: OVERVIEW

Page: Select which pager, if any, to use for this view

For: This page (override)

- Display a specified number of items
- Display all items
- Page by date
- Paged output, full pager
- Paged output, mini pager

You may also adjust the settings for the currently selected pager.

Apply (this display)  Cancel
CUSTOMIZE THE VIEW: OVERVIEW

Modify the display(s) of your view below or add new displays.

Displays

- Master
- Page
- Block
- Add

Display name: Page

**TITLE**
Title: Science Labs

**FORMAT**
Format: Unformatted list | Settings
Show: Fields | Settings

**FIELDS**
Content: Title
Content: Published (Yes)
Content: Type (= Lab)

**FILTER CRITERIA**

**SORT CRITERIA**
Content: Post date (desc)

**PAGE SETTINGS**
Path: /science-labs
Menu: No menu
Access: Permission | View published content

- HEADER
- FOOTER
- PAGER

Use pager: Full | Paged, 10 items
More link: No

▶ Advanced
CUSTOMIZE THE VIEW: OVERVIEW

- Advanced
  - CONTEXTUAL FILTERS
  - RELATIONSHIPS
  - NO RESULTS BEHAVIOR
  - EXPOSED FORM
    - Exposed form in block: No

Page: CSS class
For: This page (override)

- teaser-list
  The CSS class names will be added to the view. This enables you to use specific CSS code for each view. You may define multiple classes separated by spaces.

Apply (this display)  Cancel

- Use aggregation: No
- Query settings: Settings
- Field Language: Current user’s language
- Caching: None
- CSS class: None
- Theme: Information
Our lab is fascinated by the question of how small molecules like proteins, lipids and nucleotides self-assemble into cells and tissues that are thousands and millions of times larger than molecular dimensions. How do the molecules know where they are, and whether the structures that they have made are the right size and shape? By using highly sensitive techniques to visualize and manipulate individual biological molecules, we are trying to understand the interaction rules that allow molecules to work together to form highly organized and dynamic cellular structures.
ScienceLabs

Select Campus Area: Any
Sort by: Lab Name
Order: Desc
Apply

Howard Lab

Our lab is fascinated by the question of how small molecules like proteins, lipids and nucleotides self-assemble into cells and tissues that are thousands and millions of times large than molecular dimensions. How do the molecules know where they are, and whether the structures that they have made are the right size and shape? By using highly sensitive techniques to visualize and manipulate individual biological molecules, we are trying to understand the interaction rules that allow molecules to work together to form highly organized and dynamic cellular structures.

Website: Howard Lab
PLACE THE BLOCK
PLACE THE BLOCK

REGION SETTINGS

Specify in which themes and regions this block is displayed.

Yale Wide (default theme)

- None -
  Topper First
  Topper Second
  Site Banner
  Banner Menu
  Header First
  Header Second
  Menu
  Preface First
  Preface Second
  Preface Third
  Content
  Sidebar First
  Sidebar Second
  Postscript First
  Postscript Second
  Postscript Third
  Postscript Fourth
PLACE THE BLOCK

Visibility settings

**Pages**
Restricted to certain pages

**Content types**
Not restricted

**Roles**
Not restricted

**Users**
Not customizable

**Show block on specific pages**

- All pages except those listed
- Only the listed pages
- Pages on which this PHP code returns **true** (experts only)

Specify pages by using their paths. Enter one path per line. The `*` character is a wildcard. Example paths are `blog` for the blog page and `blog/*` for every personal blog. `<front>` is the front page. If the PHP option is chosen, enter PHP code between `<?php ?>`. Note that executing incorrect PHP code can break your Drupal site.
# REARRANGE BLOCKS

<table>
<thead>
<tr>
<th>Sidebar Second</th>
<th>View: Science Labs*</th>
<th>Sidebar Second</th>
<th>configure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Login</td>
<td>Sidebar Second</td>
<td>configure</td>
</tr>
<tr>
<td></td>
<td>Post a Job</td>
<td>Sidebar Second</td>
<td>configure</td>
</tr>
<tr>
<td></td>
<td>Add a Lab</td>
<td>Sidebar Second</td>
<td>configure</td>
</tr>
</tbody>
</table>
Finding out about undergraduate research lab opportunities at Yale can be difficult. This site seeks to explain the process and provide information about the research labs that welcome undergraduate researchers.

**Peer-sourced information and experience**

**How to access the research world at Yale**

**Science Labs**
- Howard Lab
- Flannery Laboratory
- Reinke Lab
- Louvi Lab
- Dieter Söll Laboratory

*Log in with CAS*