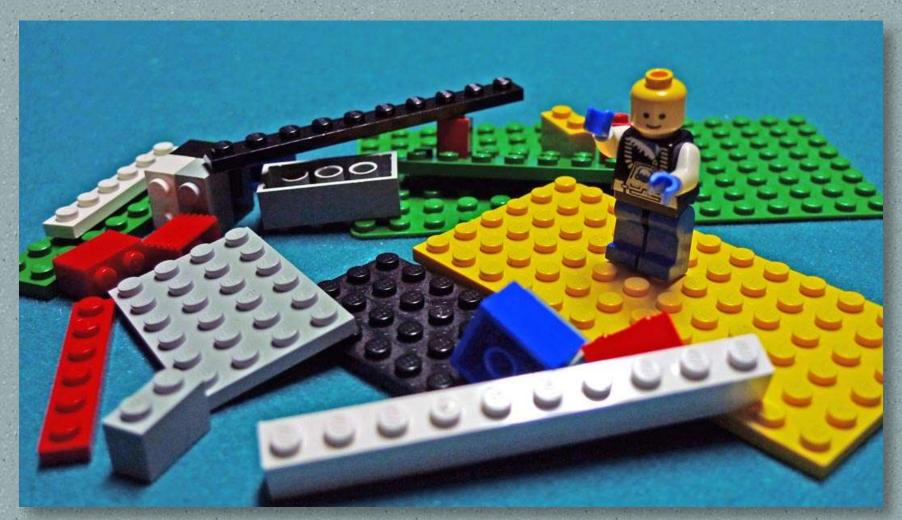
A Visual Approach to Drupal's Lego Blocks: Page Manager and Panels

Jim Smith

Drupal Camp Charlotte

June 10, 2012





LEGO is the trademark of the LEGO Group.



"Drupal is a lot like legos, any one can play with it, but it takes time to master it and understand how the pieces fit together. And it can take time to learn the pieces."

Steve (nevets) Ringwood http://drupal.org/node/1595414





Source: http://www.flickr.com/photos/ejpphoto/2314610838



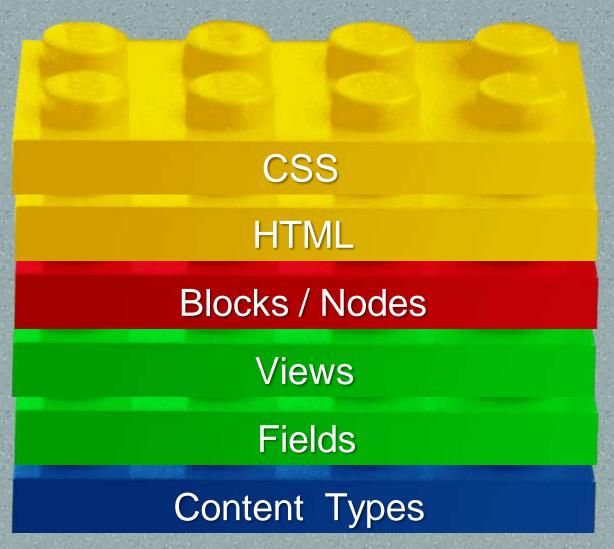
Display (Skinning)

Layout (Page Structure)

Data Slices

Content (Data Model)





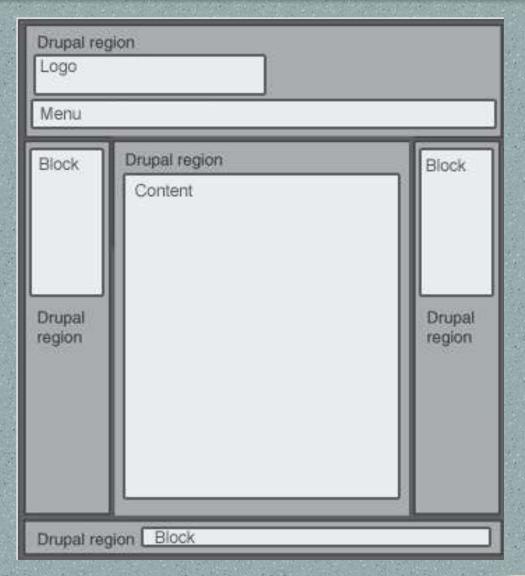


Theme:

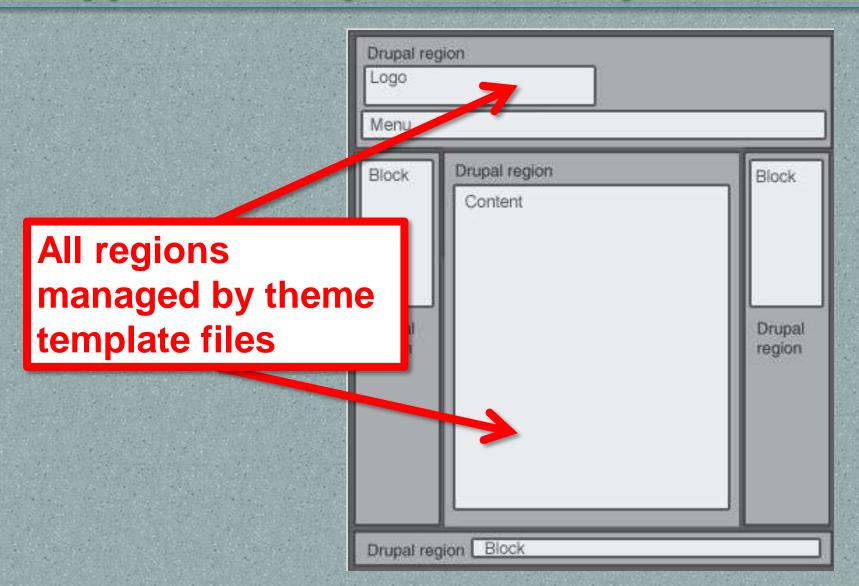
A combination of HTML markup, CSS, JavaScript and PHP logic to present Drupal's displayable output. Manages the layout and design elements of content.



Typical Drupal core layout

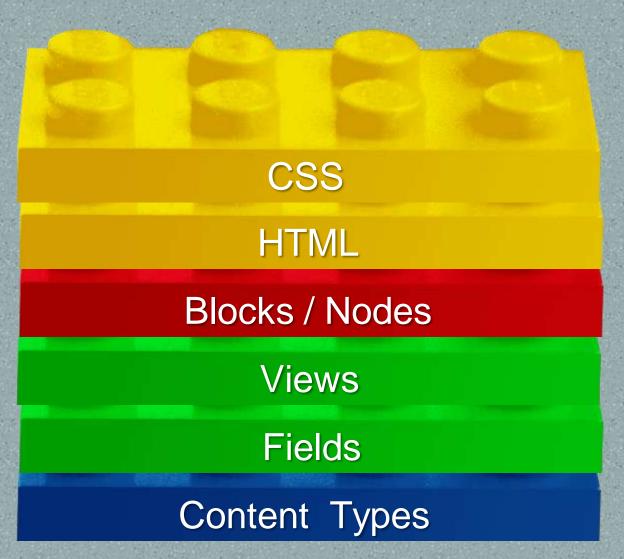


Typical Drupal core layout



Source: Drupal's Building Blocks: Quickly Building Web Sites with CCK, Views, and Panels, 9by Earl Miles & Lynette Miles (Addison-Wesley Professional, 2010)







CSS

HTML

Panels

Blocks / Nodes

Views

Fields

Content Types

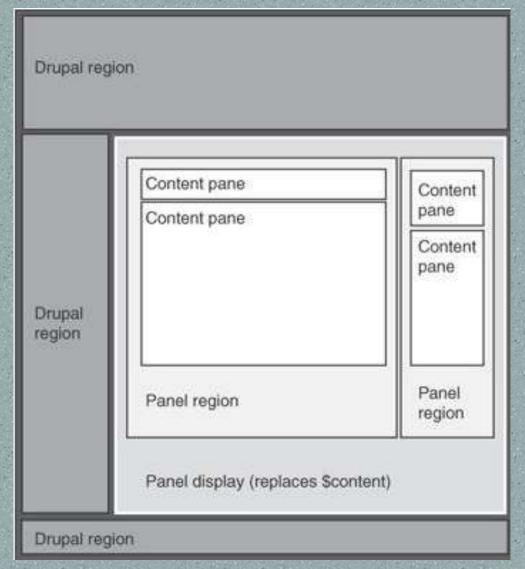


Panels:

A contributed module that provides a method of managing blocks, nodes, menus and forms. Provides layout control that extends outside of a theme.



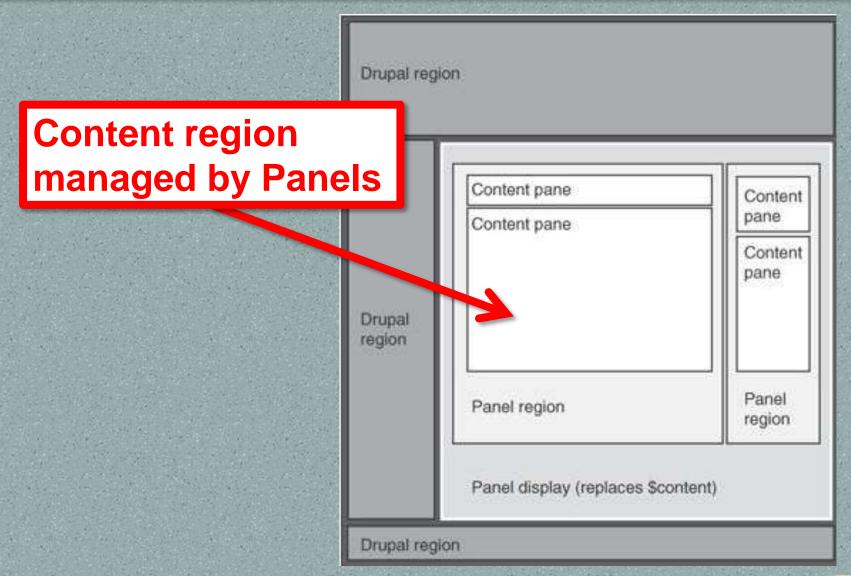
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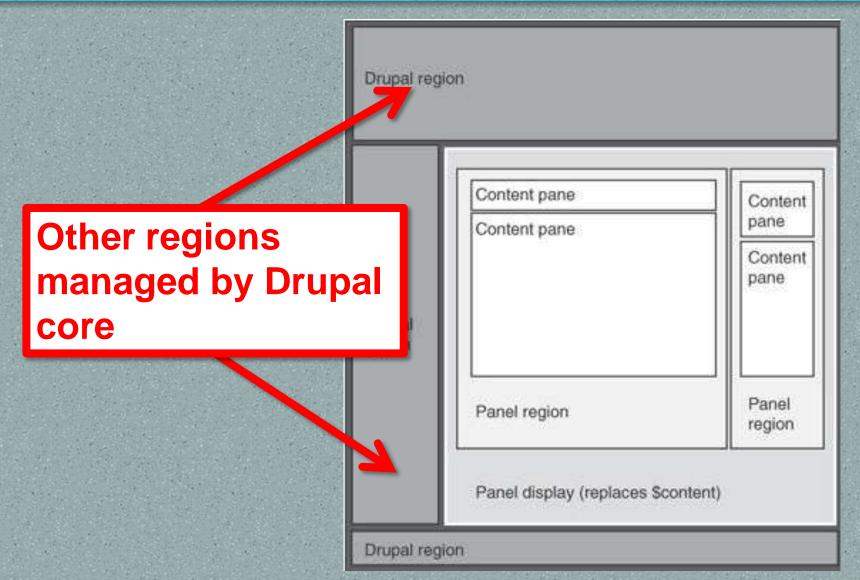
Typical Panels layout



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Typical Panels layout



Source: Drupal's Building Blocks: Quickly Building Web Sites with CCK, Views, and Panels, 15 by Earl Miles & Lynette Miles (Addison-Wesley Professional, 2010)

Starting Gravity

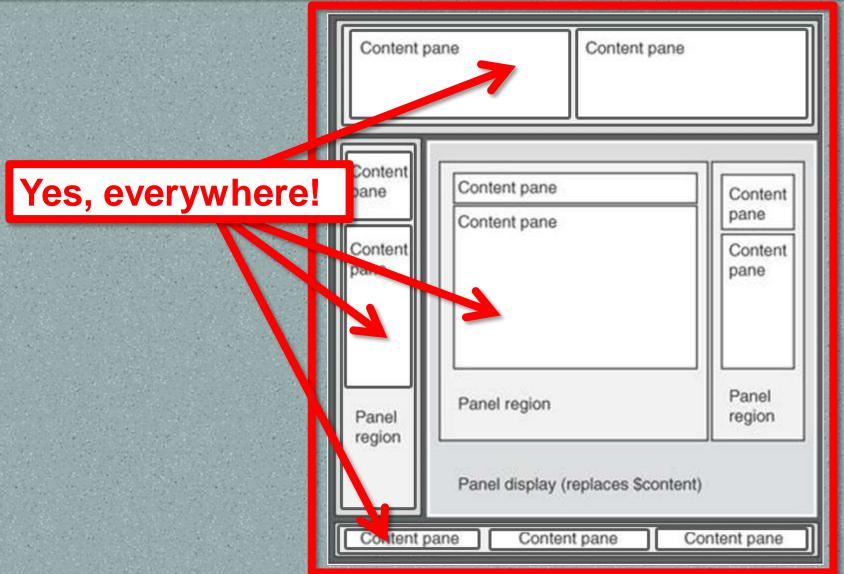
Panels Everywhere:

A contributed module that controls every section of a page layout.

Overrides Drupal's core block system and portions of the layout system managed by themes.



Panels Everywhere layout



Source: Drupal's Building Blocks: Quickly Building Web Sites with CCK, Views, and Panels,

1 7 by Earl Miles & Lynette Miles (Addison-Wesley Professional, 2010)

Starting Gravity

Views:

A contributed module that provides a graphical interface to create database queries that filter and sort nodes, users and comments into customized page and block content.



	TI	hemes		Panels	5
•	Require	d	• Not	required	



Th	iemes	Pane	els
• Required		• Not require	d

 Contains logic for displaying content regions; must be written by the themer Contains logic for display content regions in the module; no code to write



Themes PanelsRequired • Not required

write

- Contains logic for displaying content regions; must be written by the themer
- Multiple layouts are cumbersome to manage; require separate template files

 Contains logic for display content regions in the module; no code to

 Multiple layouts are easier to manage; no additional template files required



	Th	emes			Pane	İs
• V	lo UI to	visualize la	yout	• Prov	ides a vi	sual UI



No UI to visualize layout

 Requires some programming knowledge to change layouts

Themes

Panels

- Provides a visual UI
- No programming knowledge required for layout changes



Themes

- No UI to visualize layout
- Requires some programming knowledge to change layouts
- Requires core block system or Context module to manage blocks

Panels

- Provides a visual UI
- No programming knowledge required for layout changes
- Manages blocks; with Panels Everywhere all regions are managed



Blocks vs. Panels

Blocks

Panels

 All blocks are rendered, even those not needed on a page (D6 only) Only blocks needed for a page are rendered



Blocks vs. Panels

Blocks

Panels

- All blocks are rendered, even those not needed on a page (D6 only)
- Caching for all blocks managed by single core system

 Only blocks needed for a page are rendered

 Pluggable caching mechanism provides granular control for blocks



Panels

Provides a drag-and-drop interface for managing layouts

Provides contextual control over regions



Panels Everywhere

Extends Panels to all page regions, eliminating most need for core block system

Can eliminate need for custom layout files



Mini-Panels

Mini-Panels:

Embeddable, reusable panels that can contain panes.



Mini-Panel Example

Panes within a pane



Maryville and Greeneville Will defend state titles in high school football, while Powell and CAK chase their first-ever championships in Blue Cross Bowl games in Cookeville.

Read More



Knoxville's Premier Roofing Restoration Company







Take your camera to the game, then share your photos at Pix@WATE.com.

View Photos



Students collect food and monetary donations for Second Harvest Food Bank.

• Read More

FOLLOW @6FNH

Follow @6FNH and be sure to use the hash tag #6FNH in your tweets from the game!

Playoff Week 4: Two for Sure



Friday, November 25, 2011

After 10 regular season games and three weeks of playoff games, just seven teams from the WATE viewing area are still standing. From this point, the only thing we can be certain of is that at least two will play for a state title

Read More

CURRENT WEATHER

Knoxville, Tenn.

- · Scattered clouds
- Temperature: 69.8°F
- Wind: Southwest, 5.8 mph
- Rel. Humidity: 40%
- » Latest 6 Storm Team Forecast

Problem with Panels

Complex UI!



Page Manager:

A contributed module that manages page types (not to be confused with content types), especially Panels pages.



Page Manager

Think of Page Manager as a redirect machine.

It evaluates contextual settings and applies them as needed. It can override paths and create new paths.



CTools:

A collection of contributed modules and APIs, including Page Manager. CTools is required for the installation of Views and Panels, and provides functionality both modules share.



More of What CTools Provides

Custom content panes

Bulk export of data objects

Stylizer for custom pane styles



Variant:

Logic, permissions and layout settings that determine whether or not a page will be rendered and how the page will be rendered.

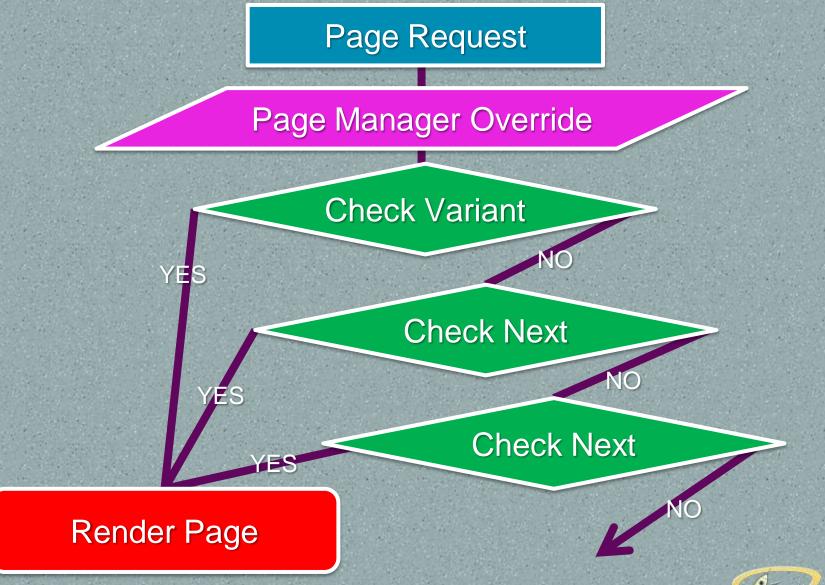


Variant

The variant order is important because Page Manager checks the variants in that order and uses the first one that applies.



Variant



Selection Rule:

A filter to tell Drupal if the variant should be applied.



Context:

An arbitrary selection given to a variant to narrow its selection rule down to a single item.



Argument:

Like a placeholder or wildcard, this allows a range of content to be included in a context. The argument is taken from the URL and expressed with a %, such as /user/%.



Relationship:

Content that is in some way connected to the content being viewed. Examples include other articles written by the same author and content that shares the same taxonomy term.





Source: http://www.flickr.com/photos/gozalewis/3329507901





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