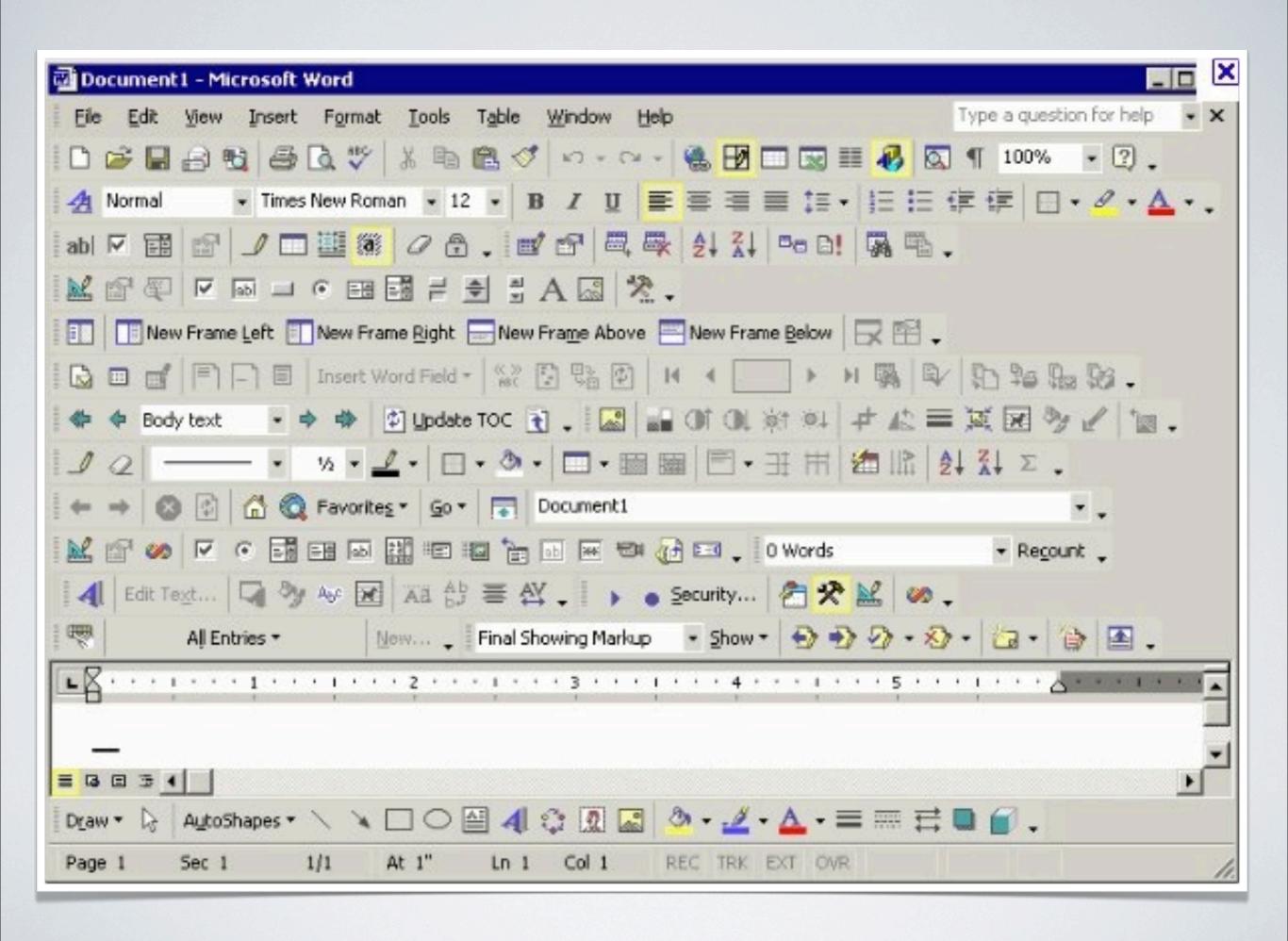
Creating & Measuring The User Experience

Jeff Noyes Director of User Experience Acquia





To find the right solution (the "How"), we need to prioritize the features we invest in (the "What"). To determine our priorities, we need to define the problem (the "Why"). To define the problem, we need to identify the intended audience (the "Who").

- Whitney Hess, Happy Cog

Who & Why

Contextual Inquiry

What is it?

- * Field research in a natural setting (also called ethnography)
- * 1-2 moderators observe users in their home, work or other natural setting

What's it good for?

- * Understanding natural behaviors, 'why' a participant has a need.
- * Finding hidden users

What's it cost?

- * A moderator
- * Participation compensation

Surveys

What is it?

Online or printed questionnaires

What's it good for?

- * Flushing out 'who' might use your product, and what problems respondents have
- * Finding hidden users

What's it cost?

* Free - \$75 a month

Services











Interviews

What are they?

* 1-on-1 interviews with target users

What's it good for?

- * In-depth understanding of 'why' a user has needs
- * Ideal for sensitive topics like finances

What's it cost?

- * Free moderation & analysis fees
- * Participation compensation

Usability tests

What is it?

* Observing your target audience while they use your Web site. Tests can be moderated or through a self moderated service.

What's it good for?

- * Flushing out 'why' people are struggling (or not) on your site
- * Flushing out emotional responses
- * Flushing out drivers

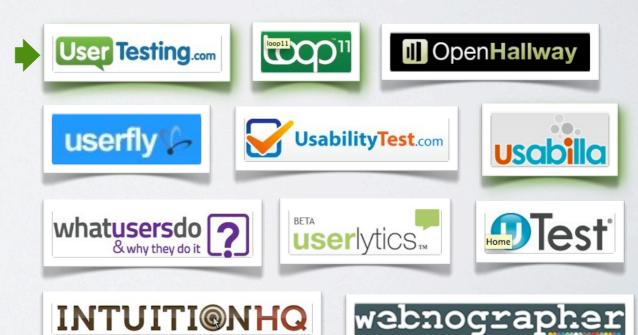
What's it cost?

* Free - \$200 per test

Moderation tools



Self moderation services



Analytics

What is it?

 Provides insights into your website traffic and marketing effectiveness by letting you see and analyze traffic data

What's it good for?

- * Flushing out 'why' people are finding, browsing or leaving your site
- Understanding demographics
- Understanding ad success

What's it cost?

* Free - \$500 mo

Similar tools



What

Design principles

What is it?

- * Guiding principles that pick up when personas or business goals fall down
- * A project charter

What's it good for?

* Staying on point

Acquia's goals

- * Drupal is our DNA
- * Embrace community
- * Be worthy of peoples trust
- * Beauty should be effortless, ugliness should require work
- First impressions are lasting impressions
- * Simple on the surface, powerful underneath
- * Every millisecond counts
- * Pave the cowpaths
- Don't make me think
- * Be approachable

Ideation



What is it?

- Collaborative brainstorming with informed stakeholders
- * 6 participants max (unless you have a lot of time)
- * A creative brief outlining the problem/ goals
- Each participant sketches a solution to the problem in 15 minutes
- * Each participant presents, while others critique (3 positives, 3 negatives
- Presenter collects feedback capturing multiple pros with + and multiple negatives with -

What's it good for?

- * Rapid idea generation
- Rapid group level setting

Services





Results: Controlling Width/Height

George

- Hard to find controls
- --- Use image styles
- Are we concerned about controlling region heights?
- Would image styles be enough?
- + Contain styles in one place
- ++ Slider on layouts
- + Keeps existing areas
- ++ Integration w/ layout
- + Integration w/ image styles
- ++ Warn user
- + Call out another way to manage images
- Where to handle image management?
- Not just sliders also typing
- ++ Make controls scarier
- Can we fit w/h in box model control?
- + Conditional tag handling

Jeff

- +++ drag regions (+ scaling for all regions)
- ++ drag regions in screen (might be confused with the DOM navigator) (might be brought out in stages, i.e, just sidebars first)
- -- need to enter vaules into sizing areas
- +++ layouts tab
- another model in the overlay to drag regions
- + auto sizing
- -- auto sizing (sprites could be a problem) (maybe ask to auto size) (small images could be bad)
- + per region draggable (might be problematic across layouts)
- I dont want to develop it.
- ++ locked access under advanced (as long as it looks advanced)
- locked access doesn't repel moths enough.

Paul

- +Hiding the width/height control in box model
- ++++Fit controls on image upload
- -Checkbox for agreeing to terms
- -No more lawyers
- Not sure people will figure out to use margin/padding instead of width/height
- -Should not expose at all.
- +Restrict to single page
- -per page settings

Kevin

- ++Setting only the width
- +Handled setting page width
- +fluid widths
- Should have a unit dropdown
- ++++showing all regions
- +per page settings
- +Using layout tab
- -complexity simplify too many settings
- ---doesn't solve for images
- --prefer to set size in content area, abstraction is too small,
- +fields for values
- -postntial confusion in setting thigs you can't see
- -hidden
- new tab is not associated with currently selected layout
- + i like the region slider in the tool
- design feels complex (maybe its just a drawing
- + per page options

Task flows

What is it?

* A method of flushing out interaction at the site level

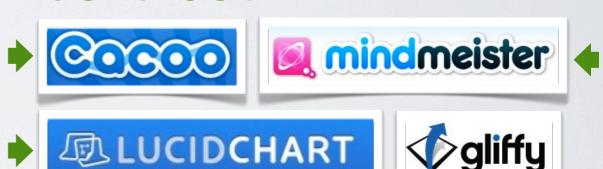
What's it good for?

- Outlining a flow of events across a task
- * Discovering touch points
- Thinking big
- * Identifying page count

Tools



Services

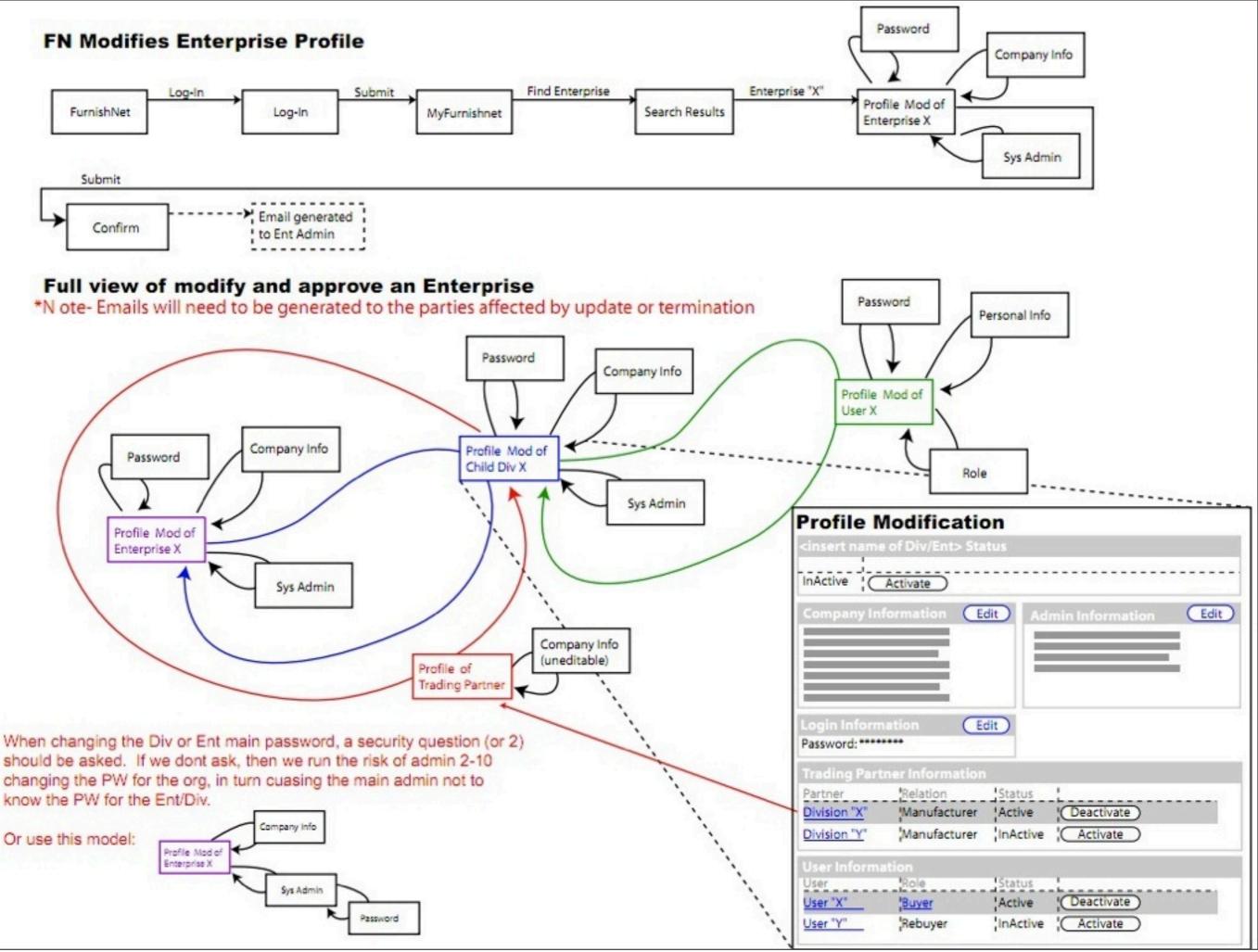












Gray boxing

What is it?

- * A method of flushing out interaction at the page level
- * A method of orienting stakeholders of design intentions without focusing on brand or minutia

What's it good for?

- Revealing interaction touch-points and layout on a page
- Thinking big without committing to details
- * Engaging a customer without focusing on brand

Tools



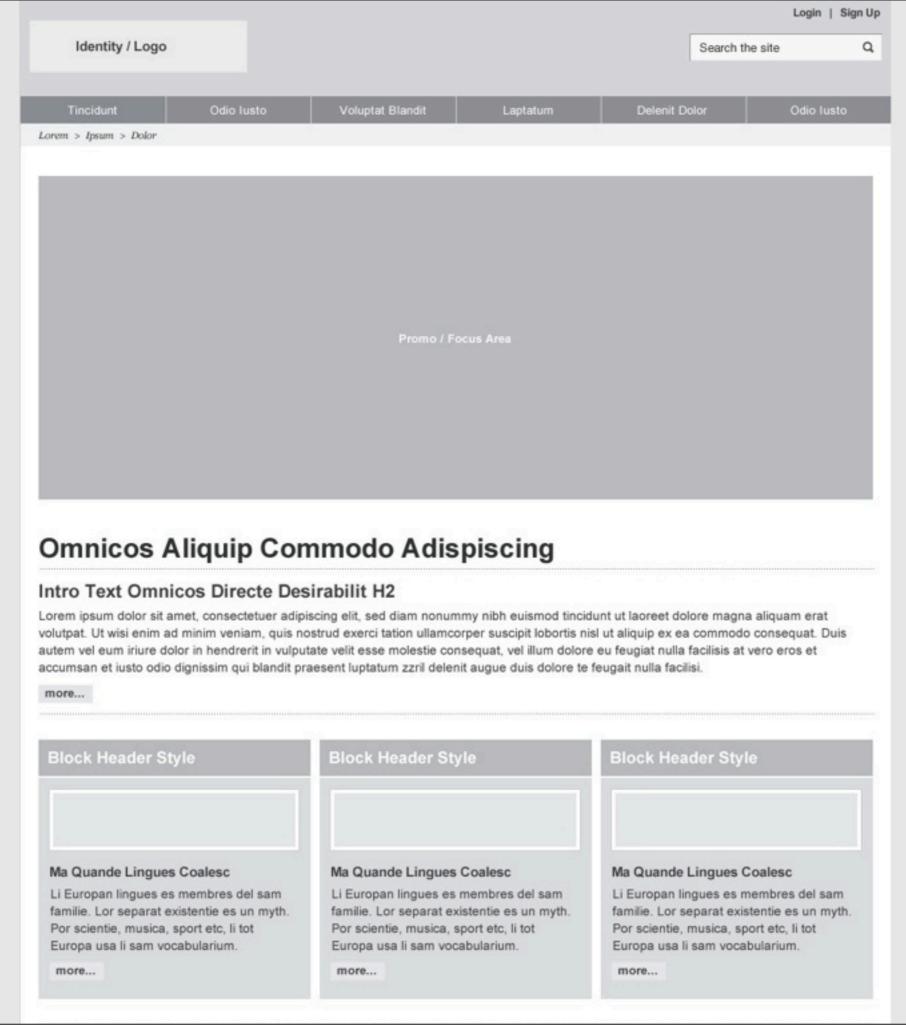








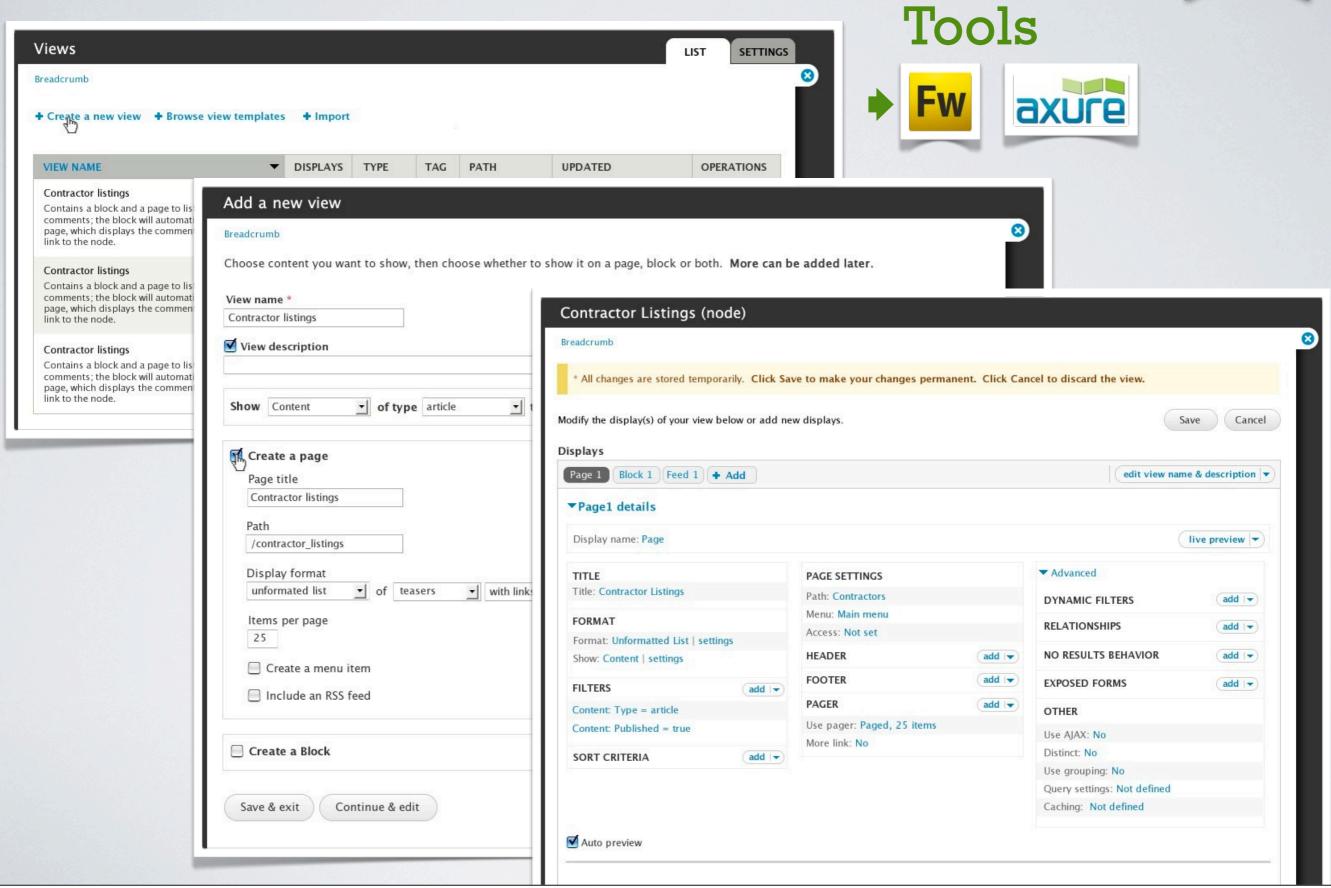




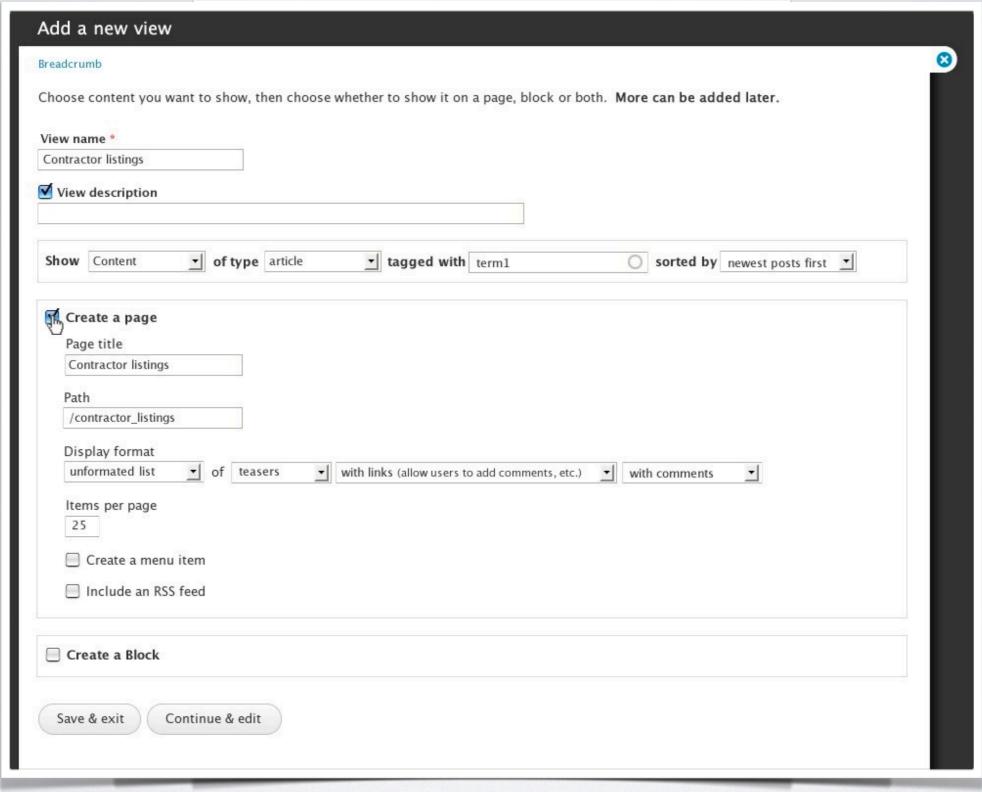
Courtesy of Floor Van Herreweghe

Storyboards



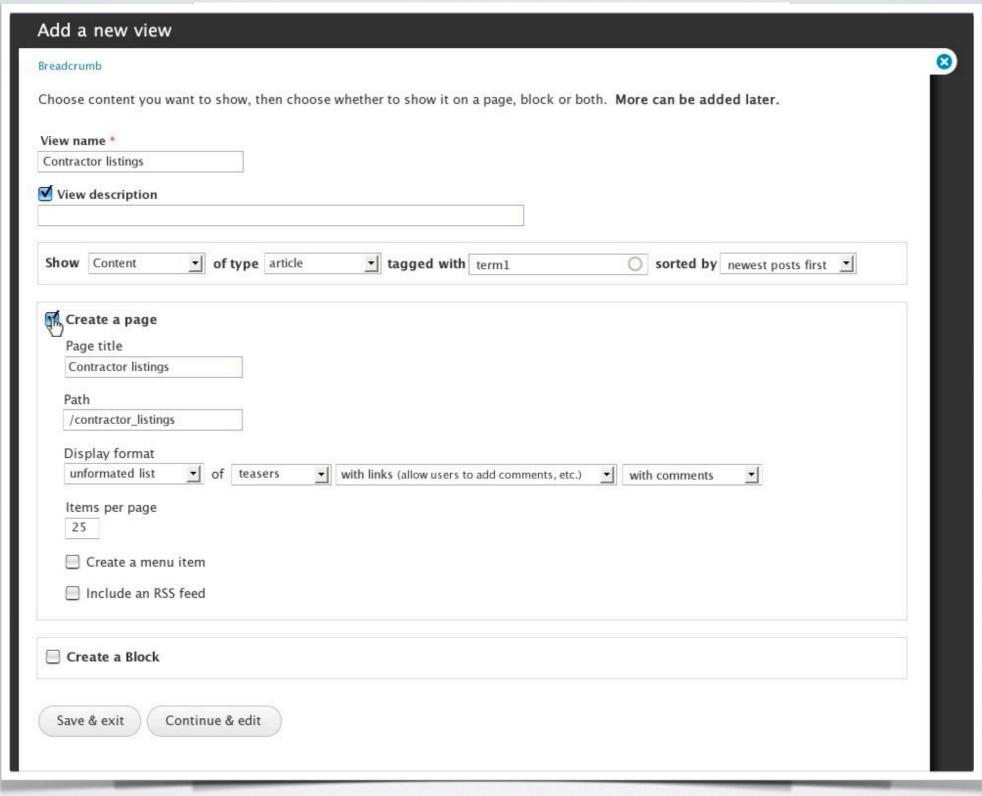


Which tests/sells better?





Which took more time





Drupal Gardens

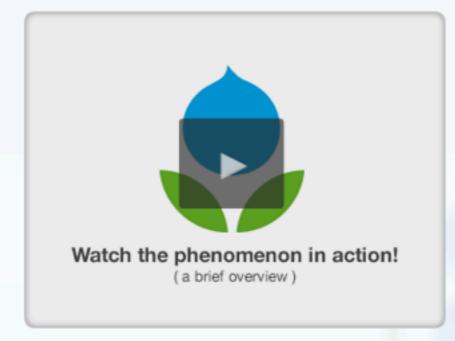
Building Drupal websites just got easier.

Launch a product, promote an event, engage a community -You can create socially smart websites and microsites that accelerate your business with Drupal Gardens.

Get started for free!

Design to online in 15 minutes.







See what's inside

Discover Drupal as a service





Example: Views

Example: Marketplace

Prototypes



What is it?

- * A clickable version of your design. Can be low or high fidelity.
- * A method of using a product without the cost of a complete build
- * A method of capturing user feedback

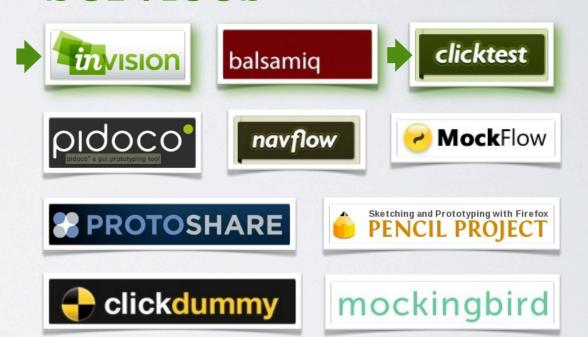
What's it good for?

- * Feeling your designs out. Often static fails to reveal true interactions
- Selling others on ideas. The ability to visualize interactions is not a skill everyone possesses
- Validating your designs with your target customers
- Spec'ing interaction
- Saving money by validating before building

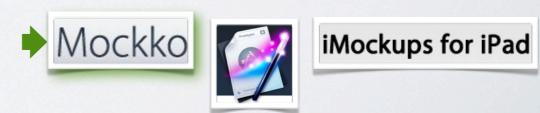
Tools



Services



Mobile Services



Validate

"An expert is a man who has stopped thinking-he knows!"

– Frank Lloyd Wright

Moderated tests

What is it?

* A test focused on one or more tasks where a moderator guides the test.

What's it good for?

- * Flushing out 'why' people are struggling (or not) on your site
- * Flushing out emotional responses
- Flushing out drivers
- Keeping participants from wondering
- Complex, multi-task tests

What's it cost?

- Moderator & Analysis costs
- * Analysis costs
- * Lab costs (if used)
- Participant compensation (\$25 \$75)

Tools















Self-moderated tests

What is it?

* A test focused on one or more tasks where a participant reads a tasks and tries to complete in a self guided fashion

What's it good for?

- * Flushing out 'why' people are struggling (or not) on your site
- * Flushing out drivers
- * Simple, smallish-multi-task tests

What's it cost?

- * Usertesting: \$39 \$31 per user
- * Loop11: \$350 per test

Services

























Static image, self moderated tests

What is it?

* A test focused on a single static image

What's it good for?

- * Testing comprehension
- Testing for triggers
- * Identifying labels

What's it cost?

* Free - \$140 mo

Services



Navigation tests

What is it?

* A test focused on the information architecture of your site

What's it good for?

- * Testing findability
- Testing for triggers
- * Identifying labels

What's it cost?

* Free - \$140 mo - \$1000 yr

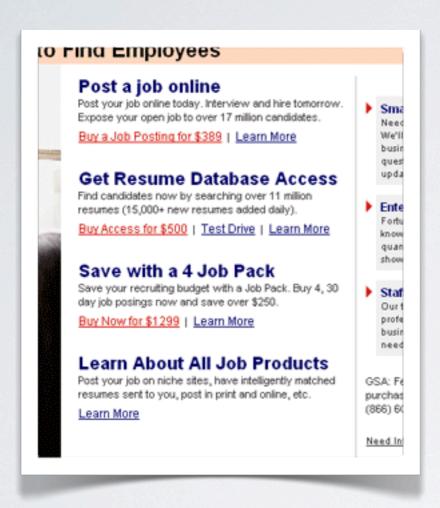
Services



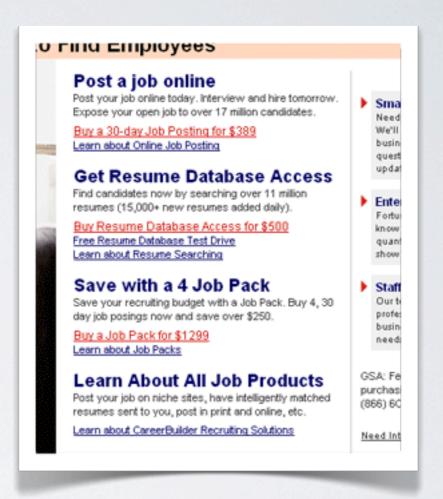
DIY Testing

Target Audience Be unbiased Listen Document patterns

Which tests better?







B

- Jared Spool, UIE Brainsparks 2006

"Everybody on Mr. DeHaven's staff who saw version "B" said it was too crowded and people would feel overwhelmed with links, so they expected version "A" to win the A/B Test."

As we would've predicted based on our work with link-rich home pages, version "B" should do better. And we were right.

Version "B" won more customer accounts than "the cleaner, more graphical design".

- Jared Spool, UIE Brainsparks 2006

"It seems that business executives prefer to look at fairly plain textual content online rather than cheerful graphical interfaces. Plus, they prefer vertical to horizontal groupings of options and longer, wordier textual click links.

"After I thought about it awhile, it made total sense. Users are trained to allow their eye to scan down something that looks like search results - which is what this looks like. Graphics and images are not what the eye's trained for online.

"It was a HUGE finding. Really exciting."

- Jared Spool, UIE Brainsparks 2006

Finding users

Where can they be found?

- * Facebook
- * Twitter
- * LinkedIn
- * Myspace
- * Ning
- * Ethnio
- * Mining your own data
- * Professional recruiting
- * Friends (snowball sampling)

What's it cost?

- * Free \$150 per participant
- * Participation compensation

Services









If you've solved the problem - build it!

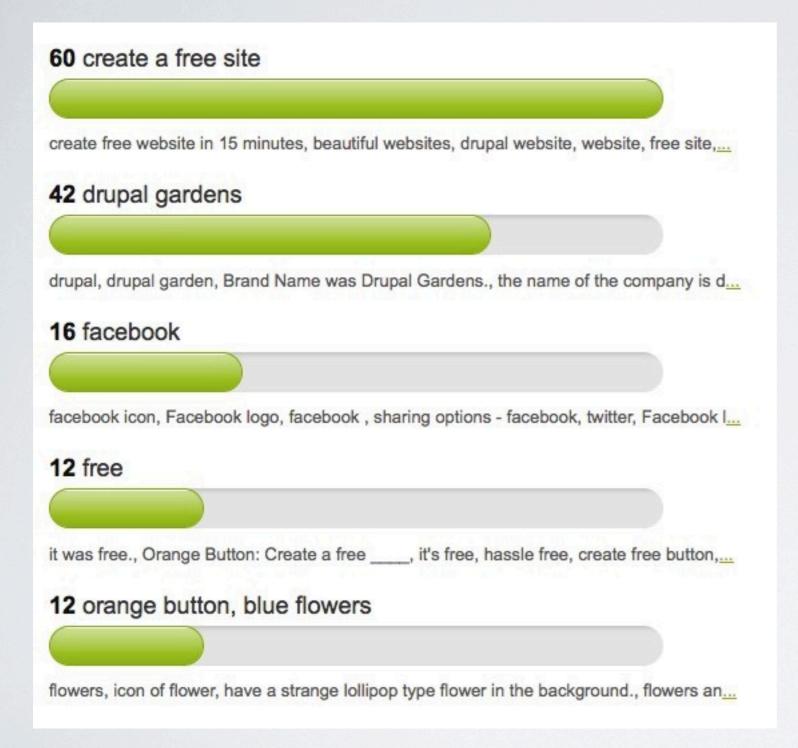
If not - iterate

"An architect's most useful tools are an eraser at the drafting board and a wrecking ball at the site."

Frank Lloyd Wright

In 5 seconds, what does Drupal Gardens do?

What do you remember of this screen?



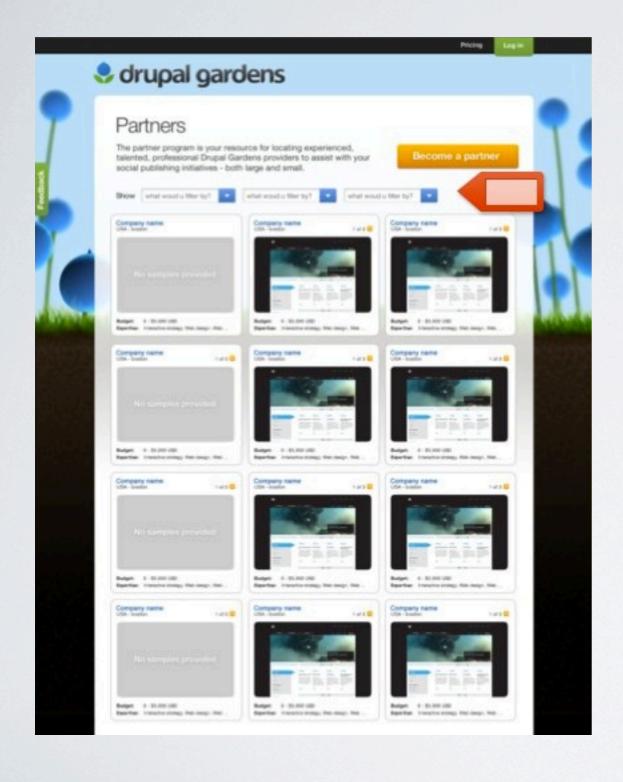






What filter criteria would you use to find Drupal Gardens service providers

What filter criteria would you use to find Drupal Gardens service providers





Results

- Country/City/State
- Price
- Skills

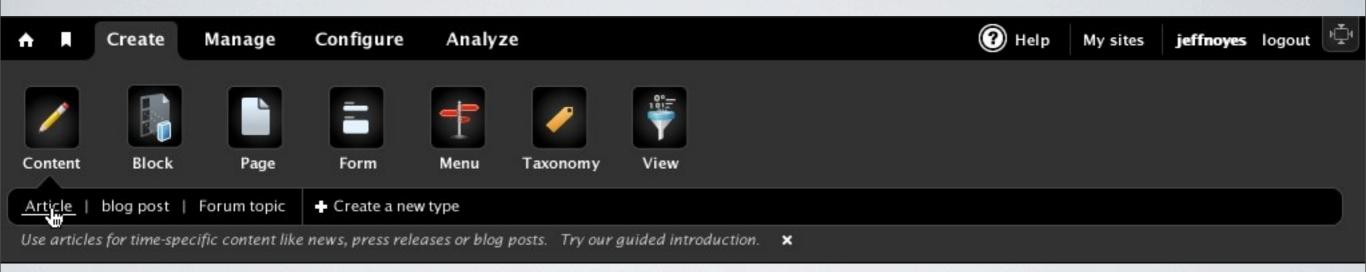
Others that placed high

- Years of experience/in business
- Around me
- Rating
- · No of testimonials
- Language
- Company Size



Comparative study between toolbars (production and concept)





Study

8 participants did the same set of tasks on each of the toolbar. To avoid bias, half started with the current toolbar, and visa-versa.

Tasks

l.write a blog entry for your magazine website.

2. You have an unpublished article. How would you publish it?

3. Give the "Editor" permission to edit their own articles.

Current toolbar

Positives

- 1. "This is a lot more straightforward. There are not million options. Just two options Add content / Find content" (P2)
- 2."I like this because it says 'Add Content'...It's clear to me" (P3)
- 3. "The titles (labels) are clear, more descriptive [than the proposed toolbar]" (P3)

Negatives

- 1.Terminology: "I am lost. I do not know what 'People' is" (P5))
- 2. Navigation: "It is too wordy. I don't like a lot of words [instead] I like to click and then break down" (P6)
- 3.Mental Model: "The order is not the way I think" (P1)
- 4. Visual Design: "Busy, convoluted" (P8)

Proposed toolbar

Positives

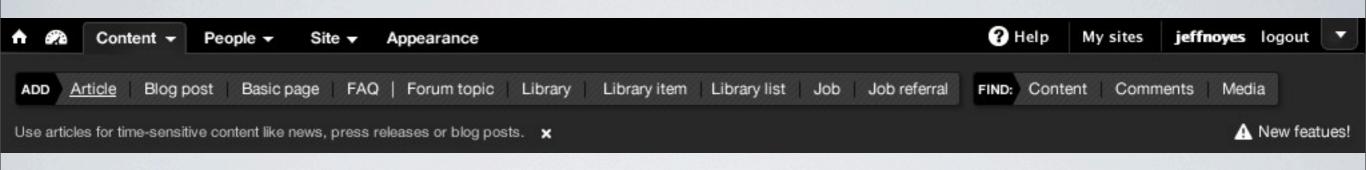
- 1.Participants who clicked 'Permissions' in the proposed toolbar found it easier to edit roles, as they did not go through the list page.
- 2."Buttons (icons) are clear. [It is] little easier to know where to go" (P1)
- 3. "Simple" (P4)
- 4. "Love it... It's consolidated... Small and simple. I like that I do not have many options... It is more inline to what I have been seeing [elsewhere]" (P5)
- 5."[I] Like the icons and wordings. They give more value... easier to understand what I have to do" (P6)
- 6."[It's] much easier to find and investigate" (P8)

Negatives

- 1. Visual Design: "I do not like the wide spacing between the options. In these days of wide monitors, people's eyes do not rest for long" (P4)
- 2. Navigation: "The second level has too many options. It could be parsed" (P8)

Most participants (5 of 7) preferred the proposed toolbar to the current toolbar.

To understand as to how much they liked one toolbar over the other, participants were asked to split 100 points giving more points to the design they like. On an average, participants gave 66 points to the proposed toolbar and 34 to the current one.



Study

8 participants did the same set of tasks on each of the toolbar. To avoid bias, half started with the current toolbar, and visa-versa.

Tasks

1.write a blog entry for your magazine website.

2. You have an unpublished article. How would you publish it?

3. Give the "Editor" permission to edit their own articles.

Proposed toolbar (preliminary)

Positives

- 1. "More streamlined" (P3)
- 2."Much cleaner ... a huge improvement ... wonderful" (P4)
- 3. "It's a better design" (P6)
- 4. "It's utilitarian" (P7)
- 5. "Looks 'cooler'... more responsive" (P7)
- 6. Hover based help is helpful

Negatives

- 1.Dashboard, and collapsing icons unclear
- 2. Finding content could be faster
- 3. Hover help at times out of context

Summary

Most participants (6 of 7) preferred the proposed toolbar to the current toolbar.

To understand as to how much they liked one toolbar over the other, participants were asked to split 100 points giving more points to the design they like. On an average, participants gave 66 points to the proposed toolbar and 34 to the current one.

Comparative study of Views 2 to Views 3

Study

6 participants did the same set of tasks on each of version of Views. To avoid bias, half started with Views 2, and visa-versa.

All participants had some familiarity with Drupal or Drupal Gardens, but had never used Views before.

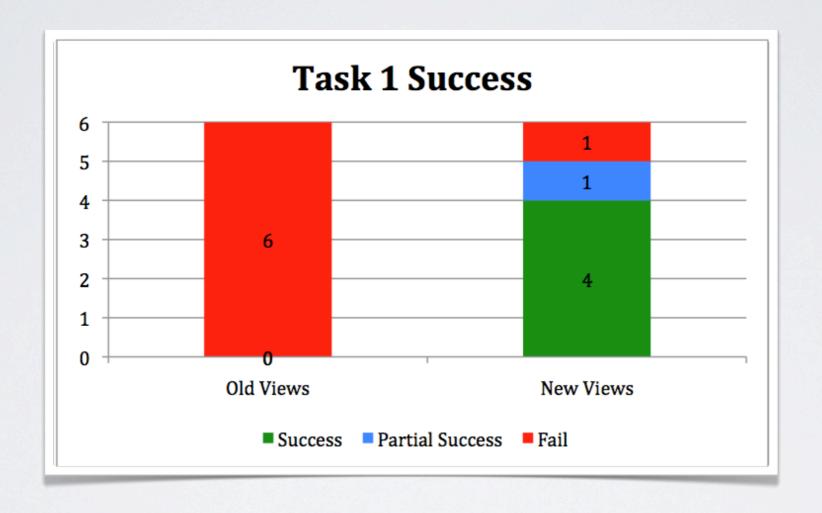
Tasks

1.Create a page of 'news' items tagged with 'Politics' and 'USA.' Link the page to the main menu

2.Create a block of the same, but limit to only linked titles

All participants preferred Views 3 to Views 2 - including participants that partially failed.

Participants gave 81 points to Views 3 and 19 to the Views 2



Create a page of "Political News" items tagged with "Politics" and "USA" and link the page to the

Continuos improvement

What is it?

- * List of 80% tasks
- Tracks task test date,
 effectiveness, satisfaction
- Tracks ID's for cross testing purposes

What's it good for?

* Benchmarking over time

ID	Tasks	Last test date	Effectiveness (1-5)	Satisfaction (1-5)
	▼ Content			
	▼ Create			
	publish/unpublish , assign to menu			
1	Create a unpublished article			8
2	▼ Create a published article			
3	optimise for SEO			
4	 Create a page, close its comments and assign to a menu 	May 17-18, 2011	(2.6 (8)	2.5 (8)
5	 Create a comment (anonymous) 			
6	Create a contact form			
	▼ Manage filter, perform an 'update' action			
7	Locate and edit a media asset			
8	Locate and edit a content asset			
9	▼ Locate and edit a comment			
10	Approve			
	▼ Edit Create revision			
11	Create a URL alias			
	▼ Structure			D.
	▼ Blocks			
	▼ Create			and the later of
12	Create and place a block.	May 17-18, 2011	2.1 (8)	2.0 (8)
	▼ Manage			
13	 Locate and edit a block, restrict its location and relocate it 			16
14	Enable a disabled block			
	▼ Content types			
	▼ Create		1 -	Q
15	▼ Create a content type	May 17-18, 2011	2.7 (3)	2.3 (3)
	▶ particpants on 4/5/2001			
16	 with new and existing custom fields (tagging capabilities) 			
17	Date			
18	• Image	May 17-18, 2011	2.0 (2)	3.0 (2)
	Media (DG only)			
19	Form element			
	▼ Manage		J.	
20	 Locate a content type and change a fields label 			le .
	▼ Menus			
	▼ Create			
21	 create and place menu to navigate. 			
	▼ Manage		ii.	6
22	Edit links in a menu			Ď
	▼ Taxonomy			

Summary

Ideate & validate by: Accelerate by:

- Collaborative brainstorming
- Storyboarding
- Prototyping
- Testing

- Collaborative brainstorming
- Hiring visual/technical interaction designers
- Switching to Fireworks
- Validating before building

Sampling techniques

http://www.statpac.com/surveys/sampling.htm

Credits

- Statpac
- Jared Spool, User Interface Engineering
- Whitney Hess, Happy Cog