

A "content-first" approach to designing responsive Drupal layouts using Twitter Bootstrap

Megan Miller & Brian Young
Stanford University

BAD Camp 2012 — November 4, 2012



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Back in the day...



But now...



**an explosion of
devices!**

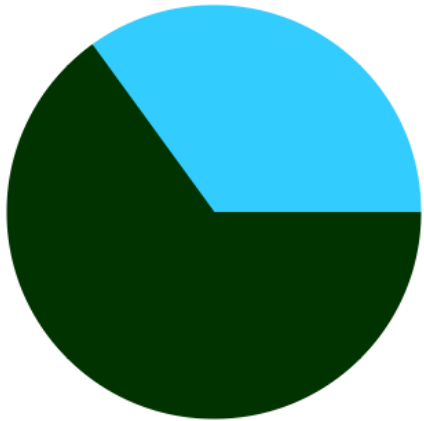
Device diversity

We can't predict the **device of the future.**

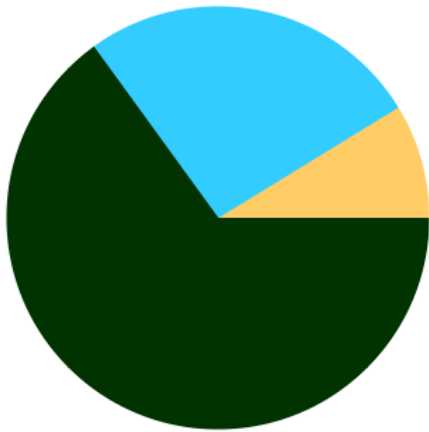
How can we know what **size** of device we are designing for?



"Mobile" Trends



35% of American adults own a smartphone



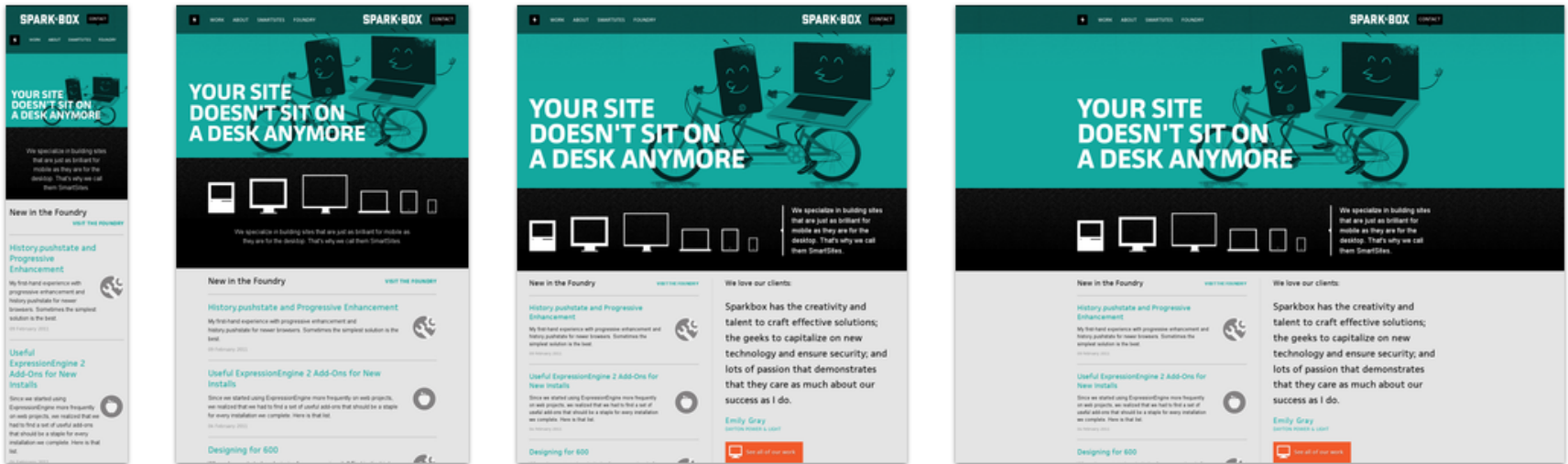
25% of smartphone users say they *only* use their phone to browse the web

In an ideal world...

A custom experience for every device.

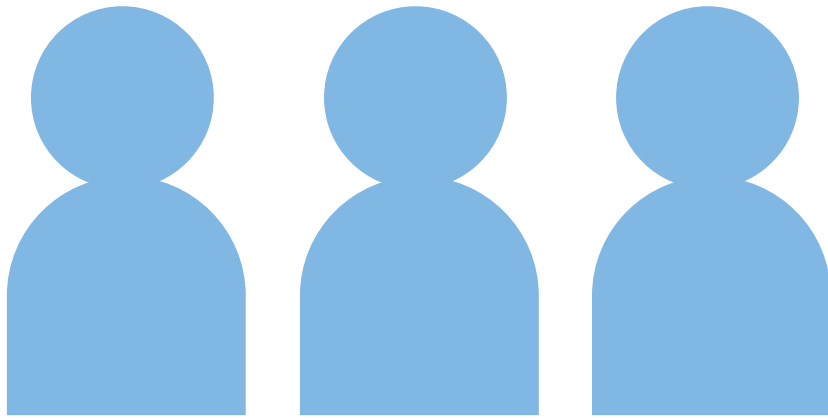


We go responsive.



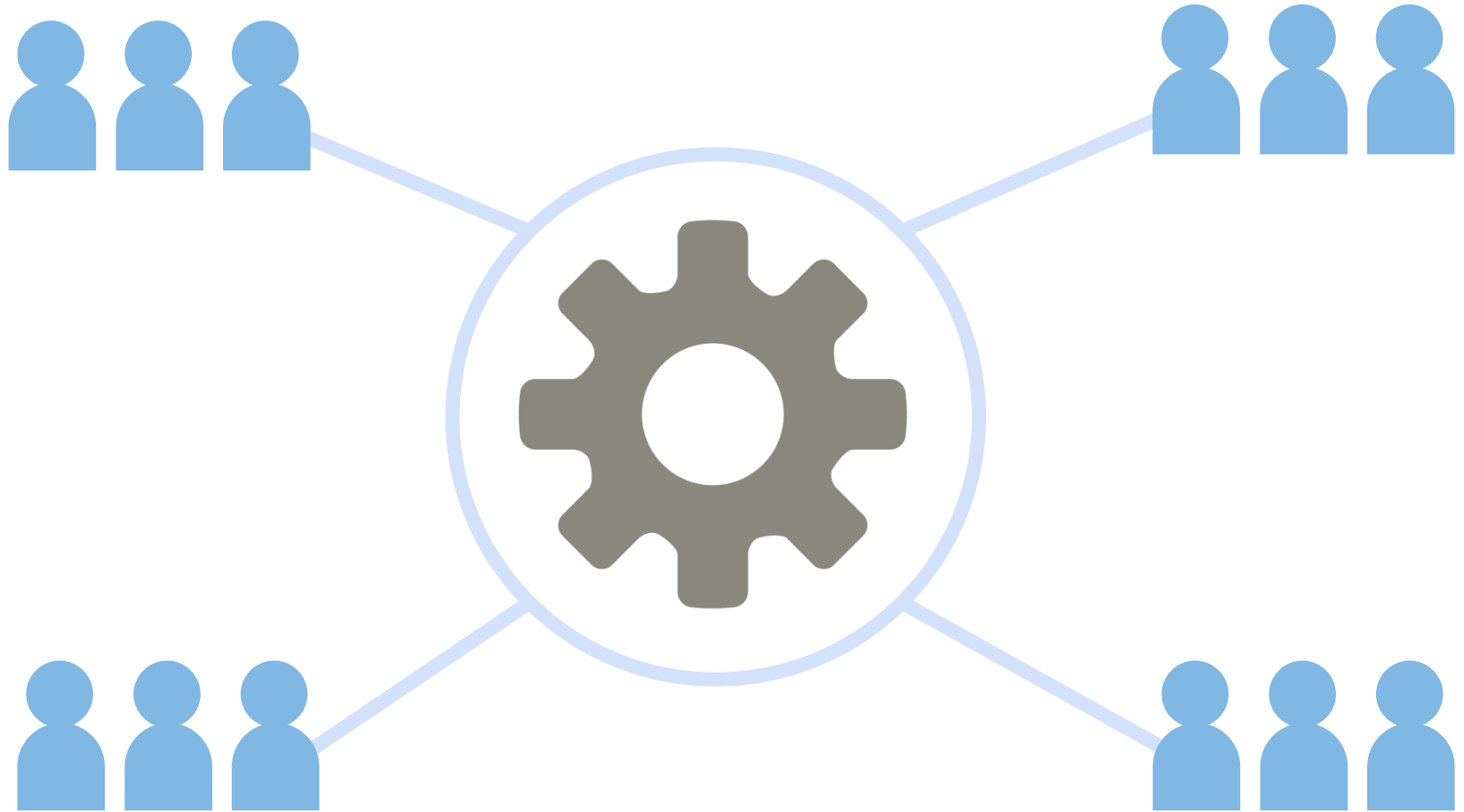
same content reused for each screen size

A typical department at Stanford



Small staff &
limited resources

Centralized Tools and Resources



We want to make it easy.

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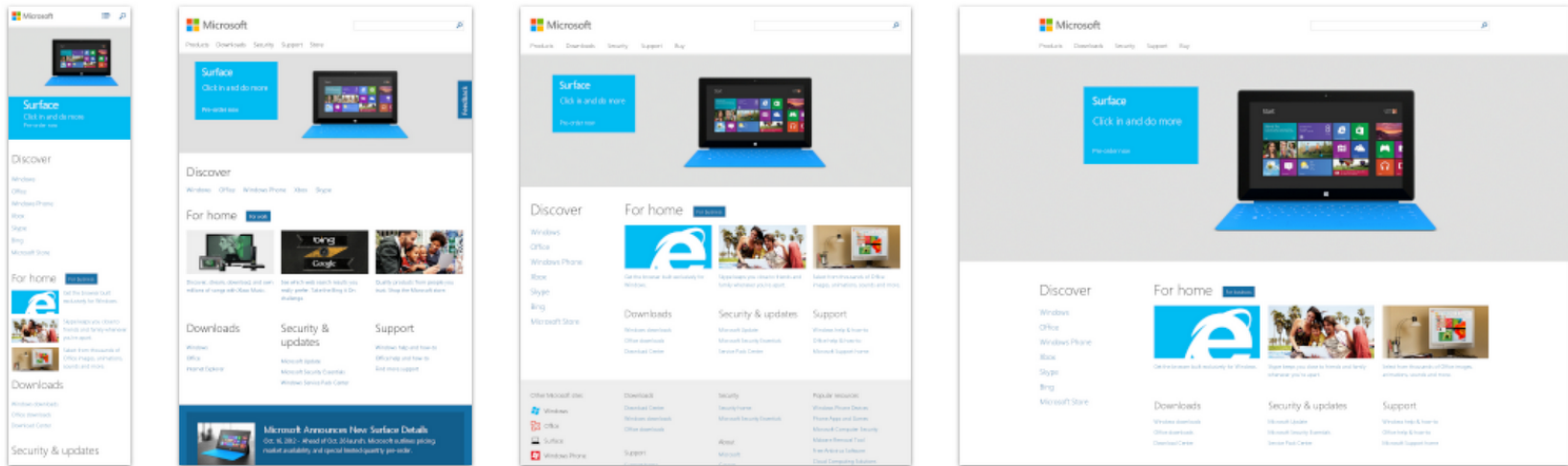
NEWS & EVENTS

RESOURCES

What is Responsive Web Design? (RWD)

"Responsive"

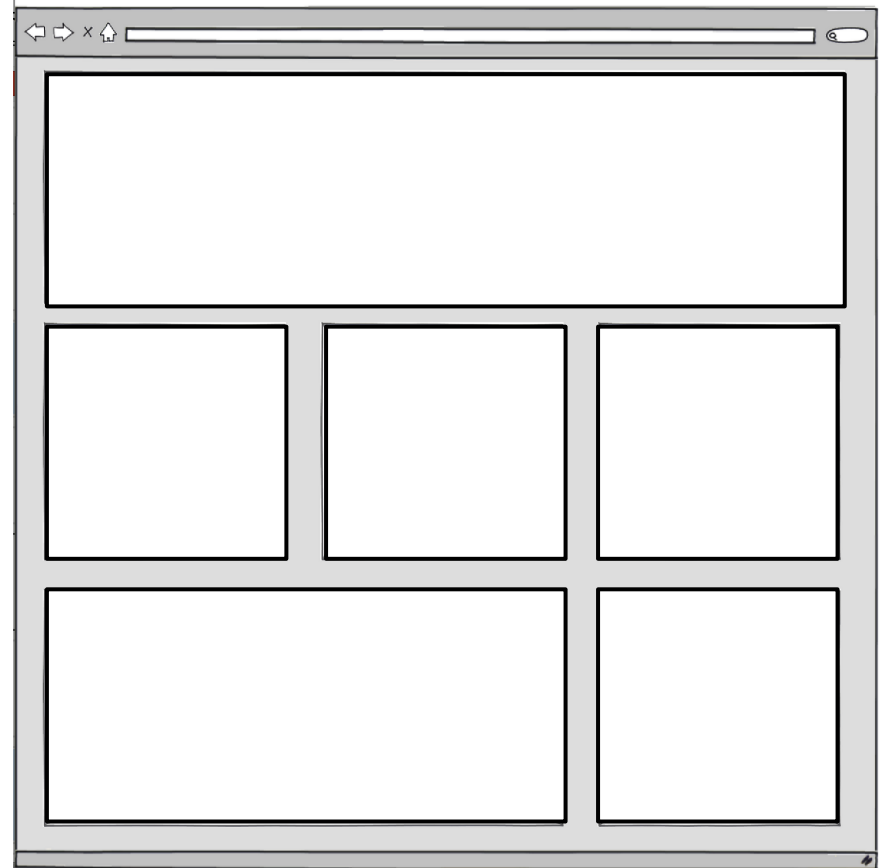
A **design** that responds to the **size** of the browser or device.



Let's take a look at an example...

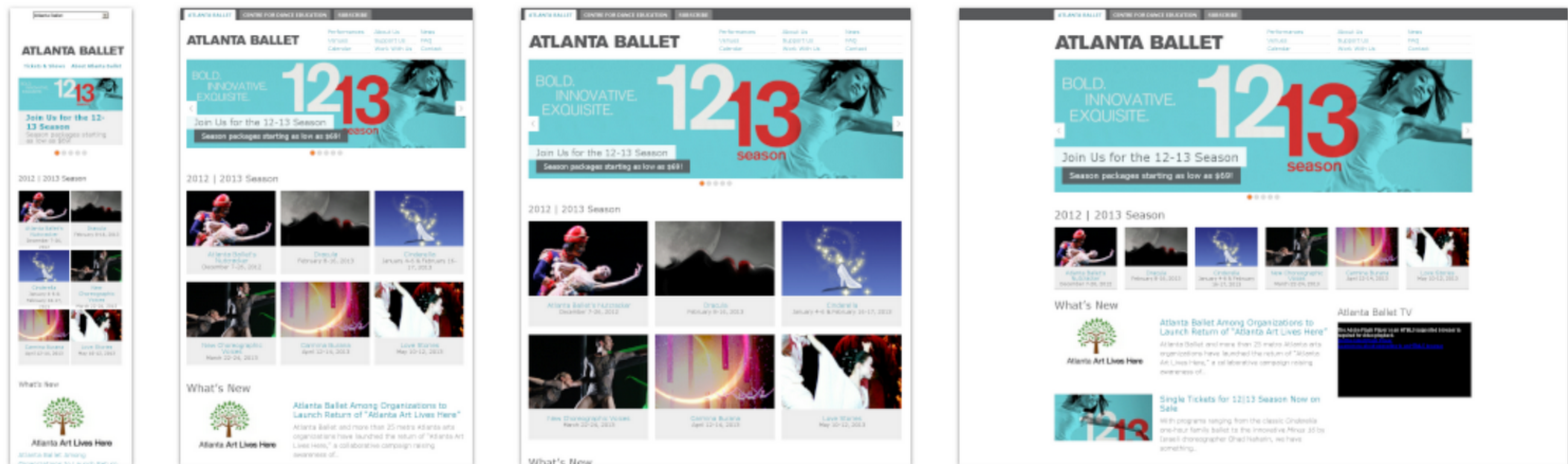
"Design"

We mostly mean **layout** when referring to "design" in RWD.



A single code base

Creating **one website**, and displaying it in different ways.



Atlanta Ballet website at different browser sizes (from <http://mediaqueri.es>)

Embrace Flexibility

RWD is a **philosophy**
and a **practice**.

By embracing the
inherent flexibility of
the web, we can design
for the future.



**How do you implement
Responsive Web Design?**

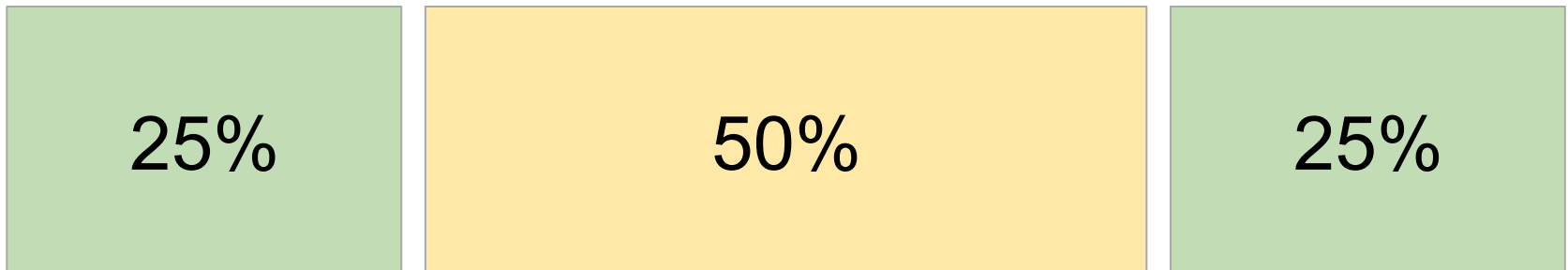
Flexible Grid-Based Layout

Flexible Images and Media

Media Queries

Flexible Grid

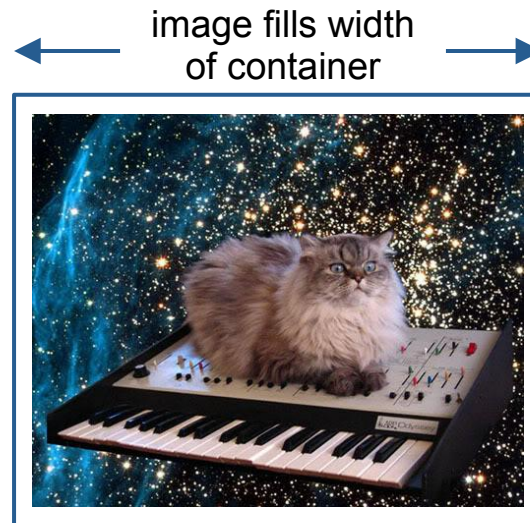
Express your layout **proportionally**.



Be *flexible* — not pixel-perfect.

Flexible Media

Flexible **containers constrain proportions** of images and media by using **width:100%;**



Media Queries

Detect your **device screen width**, then load different styles.

```
@media screen and (max-width: 480px) {  
  .mything {  
    width:100%;  
  }  
}  
  
@media screen and (max-width: 1200px) {  
  .mything {  
    width:30%;  
  }  
}
```

Flexible Grid-Based Layout

Flexible Images and Media

Media Queries

What should you consider when designing responsive websites?

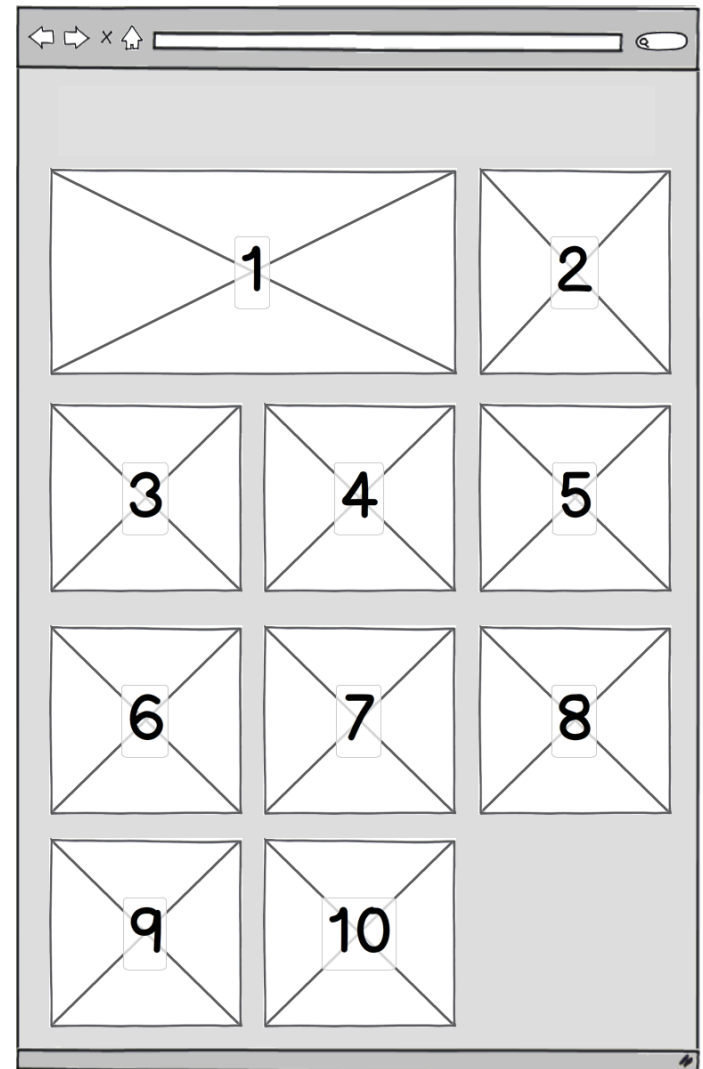
Responsive Layouts

Are about preserving
content hierarchy
and **legibility.**

Content Hierarchy

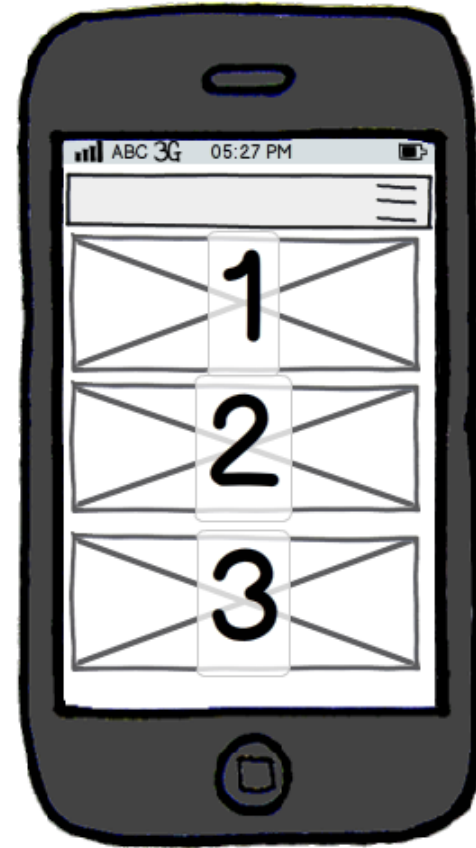
What content is **most important**?

Give it emphasis through **size** and **order**.



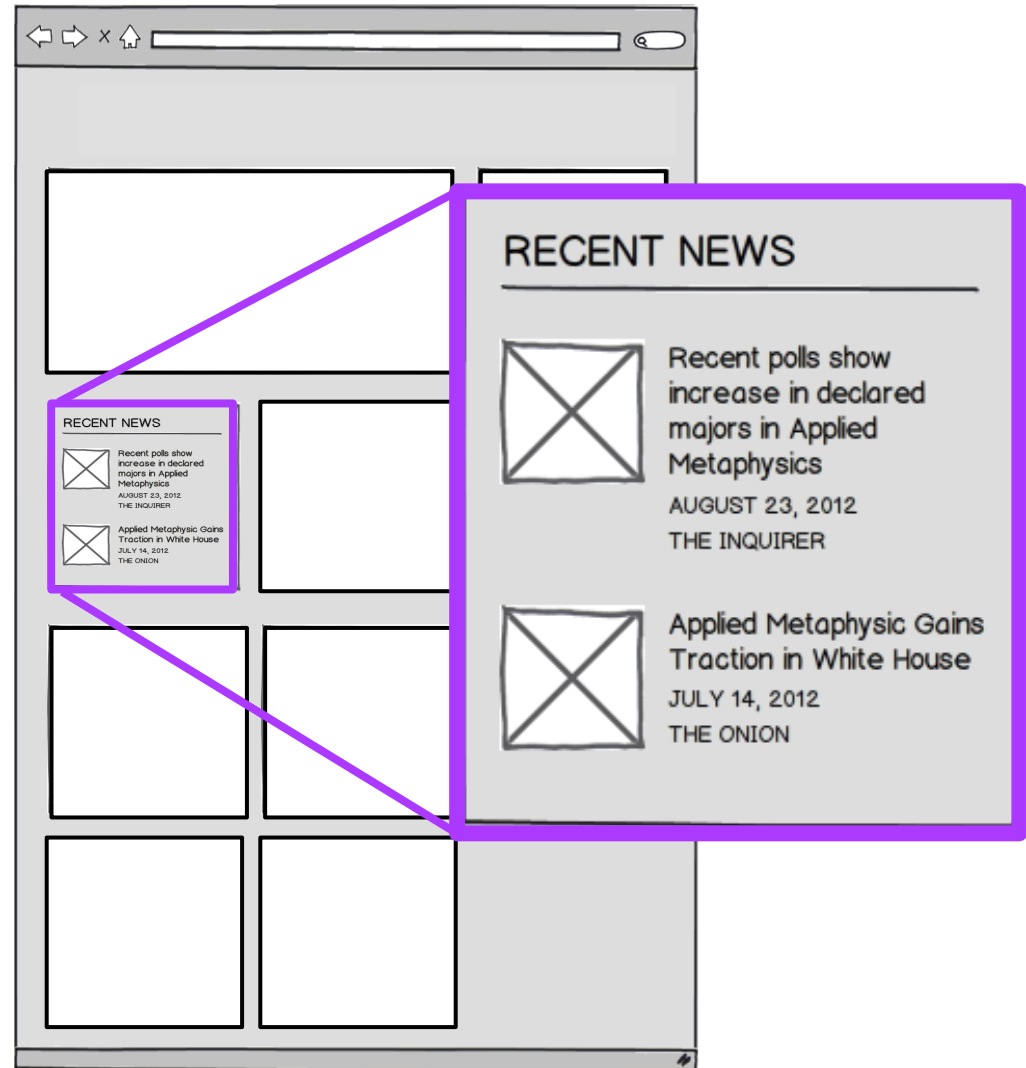
Preserve Content Hierarchy

On **small** devices,
what shows up **first**?



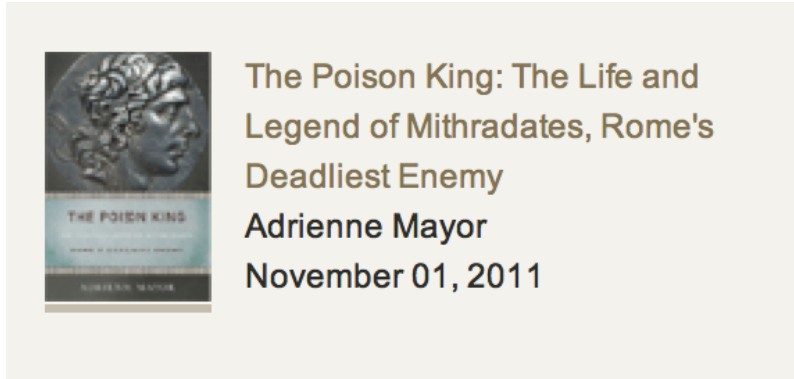
Legibility

Legibility of **text**,
but also "legibility"
of **micro-layouts**.

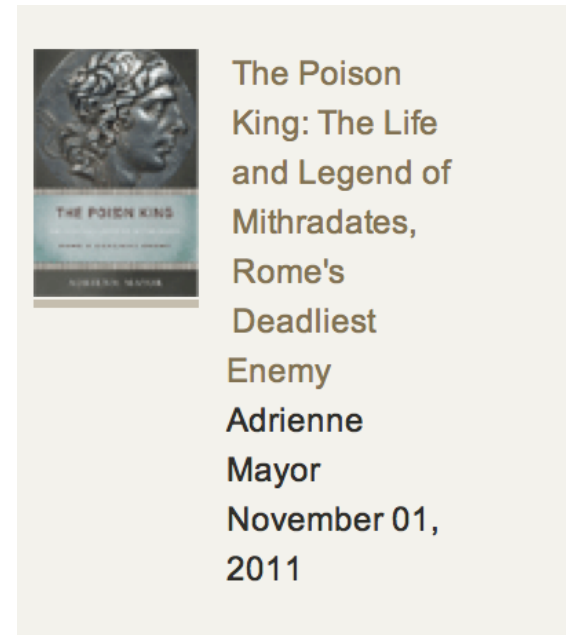


Preserve legibility

Don't let things get too **squished** or **stretched**!



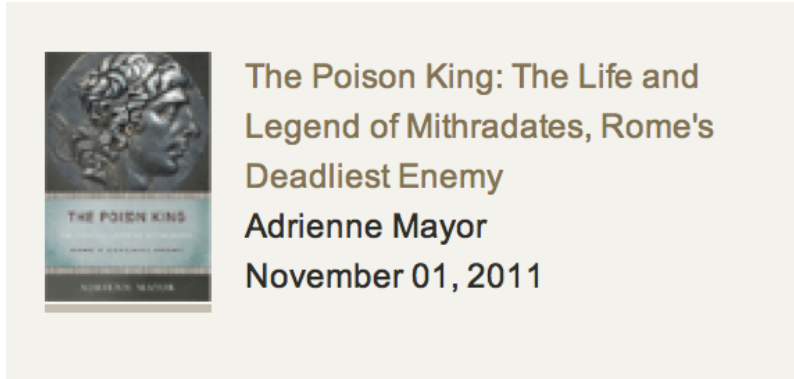
normal



squished

Preserve legibility

A **good** solution:



normal

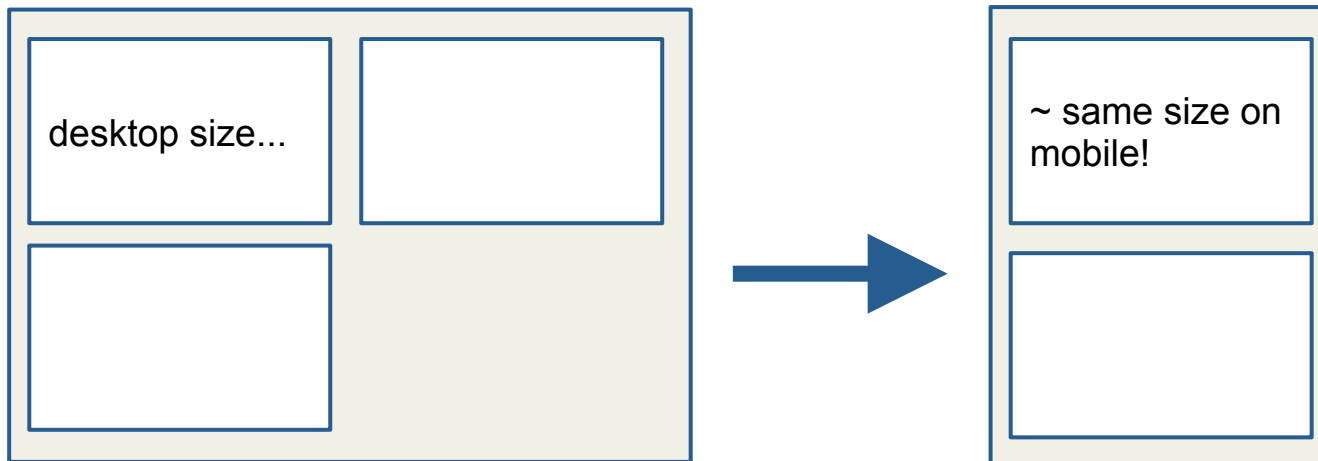


image on top

Preserve legibility

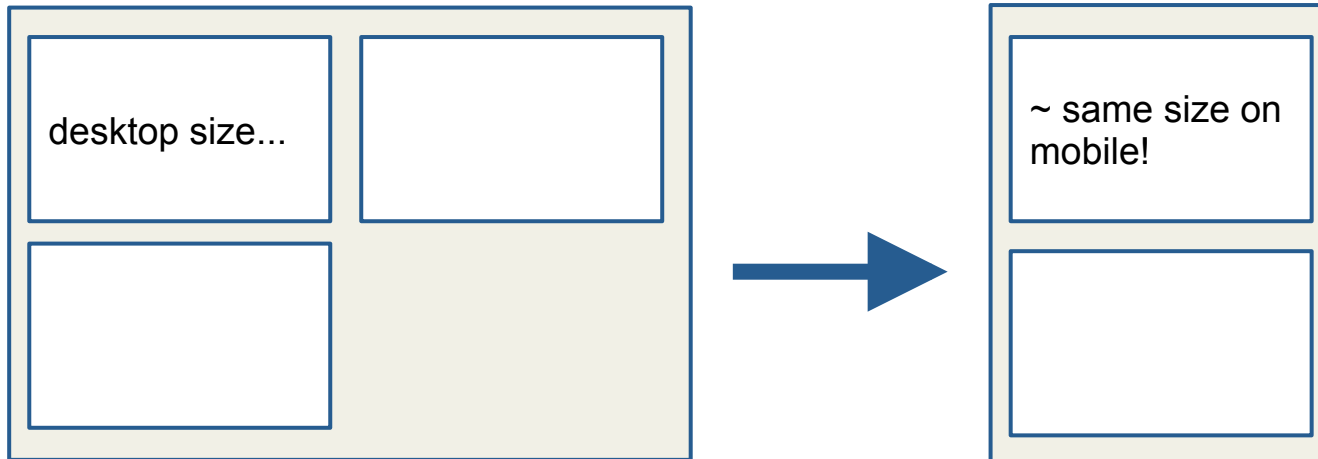
An even **better** solution...

Build a responsive theme that **never requires a drastic size adjustment** of micro-layouts.



Preserve legibility

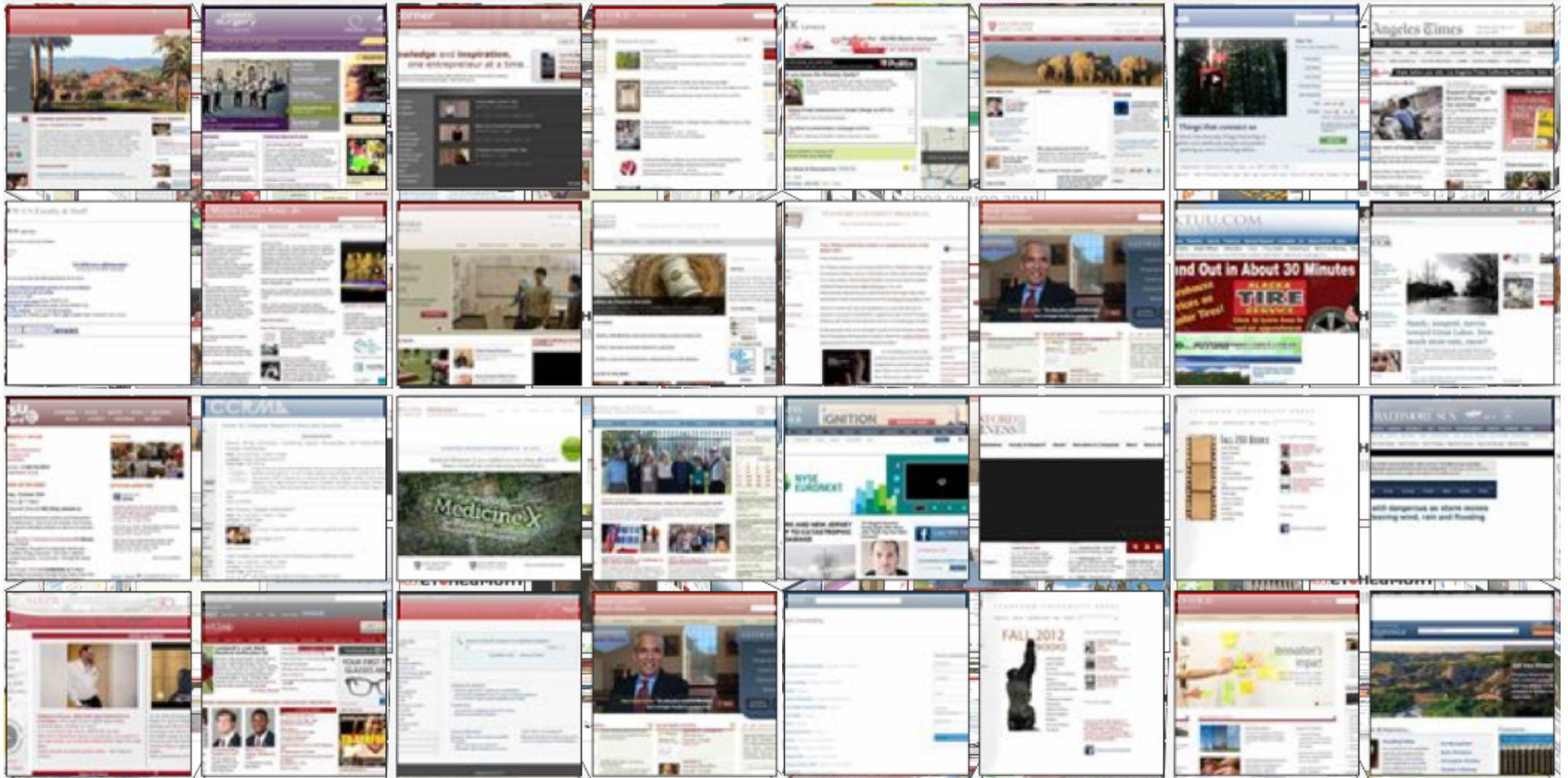
The holy grail?



"Content First"

Considering preservation of
content hierarchy and **legibility**
as a top priority.

Back to Stanford...





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RESEARCH HIGHLIGHTS



Evidence for Majorana fermions in a nanowire **Physics Today** article (June 2012) features new results building on earlier work by Xiao-Liang...

[Read more](#)



First Two-Neutrino and Neutrinoless Double-Beta Decay Measurements by EXO 200

The first EXO 200 results on two - neutrino double - beta decay

were featured in this **Synopsis** in...

[Read more](#)



Quantum Degenerate Dipolar Fermi Gas

Benjamin Lev's research group is the first to produce a Fermi sea of interacting dipolar atoms...

[Read more](#)

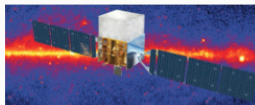
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Stanford Physics is a teaching and research department. Our course offerings range from Freshman seminars to advanced graduate classes. Undergraduates, graduate students and postdoctoral fellows are mentored in research in astrophysics, cosmology, particle physics, atomic and laser physics, and condensed matter physics. We enjoy close connections to Applied Physics and departments at SLAC.

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NEWS



- Professors Blas Cabrera and Bernard Sadoulet Awarded the 2013 W.K.H. Panofsky Prize
- Varian Physics Bldg: Process Cooling Water, Emergency Power, Cardkeys - Aug 14 2012
- Shoucheng Zhang awarded 2012 Dirac medal
- Andrei Linde Receives Fundamental Physics Prize
- Sally Ride, 1951-2012: Physics grad & Astronaut

[See more news](#)

EVENTS



- "Photovoltaic Retinal Prosthesis for Restoring Sight to the Blind"
- Oct 30 2012 - 4:15pm
- Hewlett Teaching Center Rm. 201
- Physics Dept. Faculty Mtg.
- Nov 14 2012 - 3:15pm
- Physics Dept. Undergrad. Study Comm. Mtg.
- Nov 28 2012 - 3:15pm
- Physics Dept. Grad. Study Comm. Mtg.
- Nov 30 2012 - 3:15pm
- Physics Dept. Faculty Mtg.
- Dec 12 2012 - 3:15pm

[Calendar view](#)
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NOBEL PRIZES IN PHYSICS



- Robert Laughlin: 1998 Nobel Prize
- Steven Chu: 1997 Nobel Prize
- Douglas Osheroff: 1996 Nobel Prize
- Arthur Schawlow: 1981 Nobel Prize
- Robert Hofstadter: 1961 Nobel Prize
- Felix Bloch: 1952 Nobel Prize

[View all Physics awards](#)

FEATURED EVENTS



- [CabreraFest 2012](#)
- [Physics Alumni Reception](#)

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RESEARCH HIGHLIGHTS



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[Read more](#)



First Two-Neutrino and Neutrinoless Double-Beta Decay Measurements by EXO 200
The first EXO 200 results on two - neutrino double - beta decay

were featured in this Synopsis in...
[Read more](#)



Quantum Degenerate Dipolar Fermi Gas
Benjamin Lev's research group is the first to produce a Fermi sea of interacting dipolar atoms...

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ABOUT US

Welcome to the Department of Applied Metaphysics. As one of the oldest imaginary departments at Stanford, we have an impressive history of Nobel laureates, Rhodes Scholars, Olympic Medalists, and Pulitzer Prize winners. Explore the links below to learn more:

[Overview](#)
[Contact](#)
[Directions](#)
[Research](#)

 INTERESTED?

- Physics Newsletter
- Our History
- Job Opportunities

FEATURED NEWS



Applied Metaphysic Gains Traction in White House

07/15/12 - THE ONION

Summary of this article is really helpful to know about what the article is.

[Read More](#)

- Sally Ride, 1951-2012: Physics grad & Astronaut

[See more news](#)

FEATURED EVENT



My Fantastic Lecture

AUGUST 31, 2012 - 5:30PM
JORDAN HALL, RM 201

Summary about this event is really helpful to know about what the article is.

[Learn More](#)

- Nov 30 2012 - 3:15pm
- Physics Dept. Faculty Mtg. Dec 12 2012 - 3:15pm

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FEATURED EVENTS



- CabreraFest 2012
- Physics Alumni Reception

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We started with content

We developed a "layout library" — sets of common layouts that we needed to support.

ABOUT
Option 1 - text only

ABOUT US

Welcome to the Department of Applied Metaphysics. As one of the oldest imaginary departments at Stanford, we have an impressive history of Nobel laureates, Rhodes Scholars, Olympic Medalists, and Pulitzer Prize winners. Explore the links below to learn more.

OPTION 2 - with links

ABOUT US

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OPTION 3 - links and img

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UPCOMING EVENTS

FORNIST LECTURE BY THE CHANCELLOR, REY LIU
AUGUST 21, 2012, 5:00PM
DREXEL HALL, W-101

ANOTHER AWESOME EVENT
THURSDAY, SEPTEMBER 3, 2012, 8:00PM
CUMBERLEY AUDITORIUM

LETTERS TO THE TALK ABOUT II
NOV. 25, 2012, 10:00AM
CAPPELL RECREATION HALL

OPTION 2 - graphical date

UPCOMING EVENTS

AUG 31
SEP 07
NOV 25

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OPTION 3 - header img

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NEWS
Option 1 - thumb image

RECENT NEWS

Recent posts show increase in declared majors in Applied Metaphysics
AUGUST 21, 2012
THE INCHON

Applied Metaphysics Goes Truction in White House
JULY 14, 2012
THE ONION

OPTION 2 - text only

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OPTION 3 - header img

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AUGUST 21, 2012
THE INCHON

Applied Metaphysics Goes Truction in White House
JULY 14, 2012
THE ONION

SPOTLIGHT
Option 1 - small

STUDENT SPOTLIGHT

Sally Soondo
CLASS OF 2012
CONCENTRATION IN MATHEMATICAL SCIENCES

Summary about the student is really helpful to know about what the article is.
[Read More](#)

OPTION 2 - header img

STUDENT SPOTLIGHT

Sally Soondo
CLASS OF 2012
CONCENTRATION IN MATHEMATICAL SCIENCES

Summary about the student is really helpful to know about what the article is.
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FEATURED EVENT

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Summary about the event is really helpful to know about what the article is.
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FEATURED NEWS

Applied Metaphysics Goes Truction in White House
JULY 14, 2012
THE ONION

Summary of the article is really helpful to know about what the article is.
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OPTION 3 - large and tall

STUDENT SPOTLIGHT

Sally Soondo
CLASS OF 2012
CONCENTRATION IN MATHEMATICAL SCIENCES

Summary about the student is really helpful to know about what the article is. I struggle to know what the article is, but someone not connected at all might please and care somewhat about it.
[Read More](#)

OPTION 4 - large and wide

STUDENT SPOTLIGHT

Sally Soondo
CLASS OF 2012
CONCENTRATION IN MATHEMATICAL SCIENCES

Summary about the student is really helpful to know about what the article is. I struggle to know what the article is, but someone not connected at all might please and care somewhat about it.
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TESTIMONIALS
Option 1 - text only

TESTIMONIALS

"The Department of Applied Metaphysics thoroughly prepared me for my life as a mark. I am so grateful I had the abstract education to prepare me for my salary life!"
- SALLY SOMEREL, CLASS OF 2012

OPTION 2 - header image

TESTIMONIALS

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OPTION 3 - read more link

TESTIMONIALS

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- SALLY SOMEREL, CLASS OF 2012
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GATEWAYS
Option 1 - text only

GATEWAYS FOR

Undergraduate Students
Stanford Students
Faculty
Prospective Students

OPTION 2 - header image

GATEWAYS

Resources for Undergraduate Students
Stanford Students
Faculty
Prospective Students

RELATED LINKS
Option 1 - text only

RESOURCES

Resource One
Use to take a job
Additional Information
Involving the speed of time
Feeling alone
Feeling a job
Submitting a proposal
Submitting a request

OPTION 2 - header image

RESOURCES

Resource One
Use to take a job
Additional Information
Involving the speed of time
Feeling alone
Feeling a job
Submitting a proposal
Submitting a request

CUSTOM TEXT
Option 1 - text only

CUSTOM TEXT

In a custom text block, you can have custom text with or without a header image, or widget embed code from a link like Twitter, YouTube, Vimeo, Constant Contact, MailChimp, etc. This is a block that you can have a subscribe form embedded widget, or an embedded Twitter feed or video.

OPTION 2 - header image

CUSTOM TEXT

In a custom text block, you can have custom text with or without a header image, or widget embed code from a link like Twitter, YouTube, Vimeo, Constant Contact, MailChimp, etc. This is a block that you can have a subscribe form embedded widget, or an embedded Twitter feed or video.

OPTION 3 - embed widget - large (for videos/media)

CUSTOM TEXT

embedded video player

GIVING
Option 1 - button image

MAKE A GIFT

Your contributions help to support scholarships for our students to attend the annual conference on Applied Metaphysics. Make a gift today!

OPTION 2 - text only

MAKE A GIFT

Your contributions help to support scholarships for our students to attend the annual conference on Applied Metaphysics. Make a gift today!
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DECORATIVE IMG
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Decorative Image

OPTION 2 - credits/caption

Decorative Image

4 2012 photo credits image credit to show someone with skills in making this to things.

COMMON BLOCKS

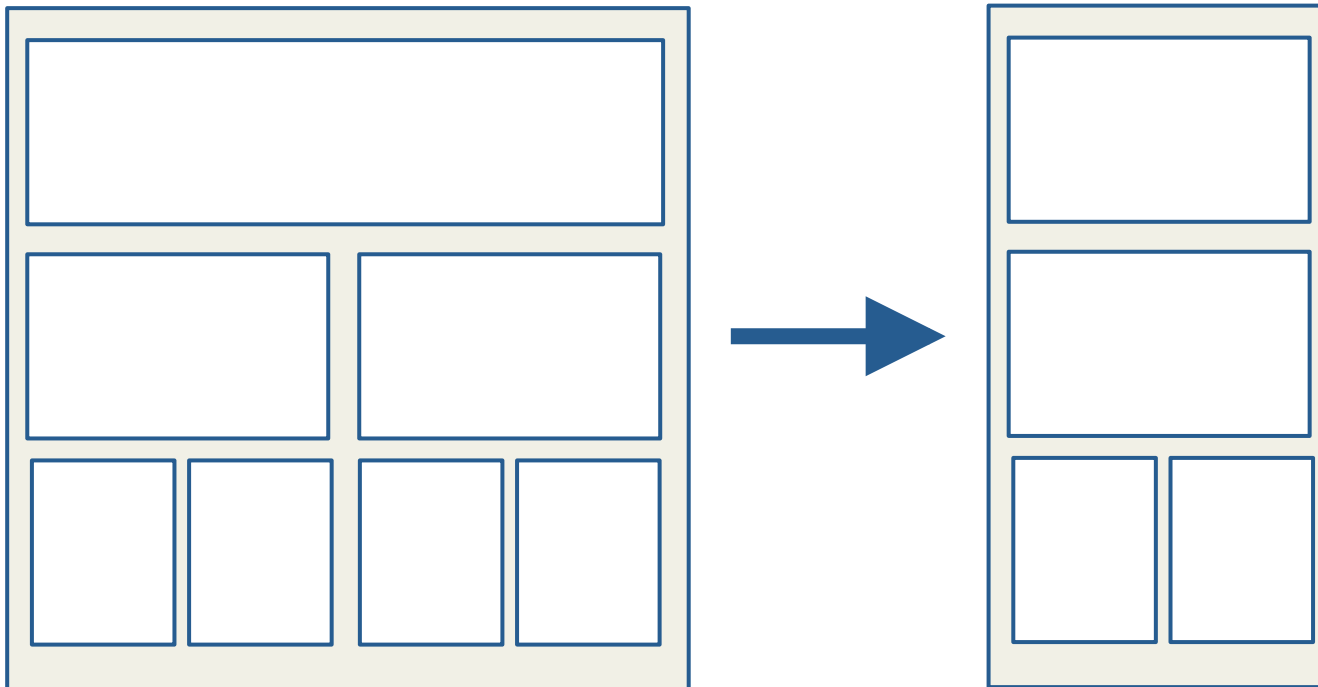
Last updated 8/23/12

Subject #	Course #	Description	Academic #	General Education
PHIL 102	102	Modern Philosophy Descartes to Kant Major agrees in early modern philosophy in	2010-2013	GER-DB-Kun
PHIL 102	102	Modern Philosophy Descartes to Kant Major agrees in early modern philosophy in	2010-2013	GER-DB-Kun
PHIL 102	102	Modern Philosophy Descartes to Kant Major agrees in early modern philosophy in	2010-2013	GER-DB-Kun
PHIL 102	102	Modern Philosophy Descartes to Kant Major agrees in early modern philosophy in	2010-2013	GER-DB-Kun
PHIL 102	102	Modern Philosophy Descartes to Kant Major agrees in early modern philosophy in	2010-2013	GER-DB-Kun

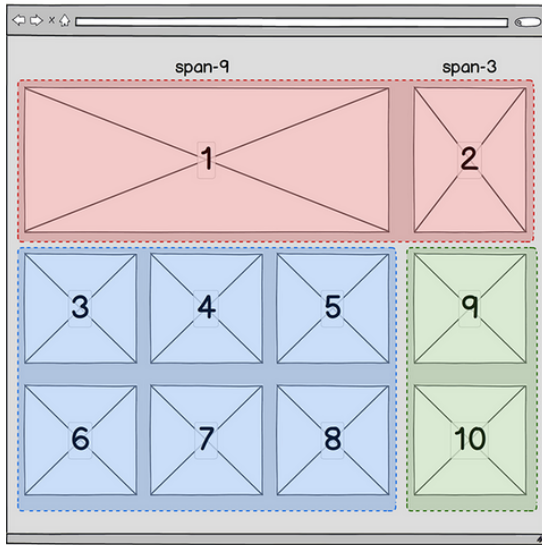
Subpage layouts

Articulating responsive behavior

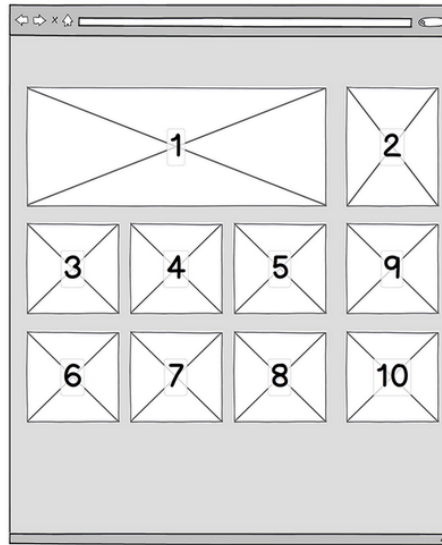
We created a set of **responsive flow wireframes**.



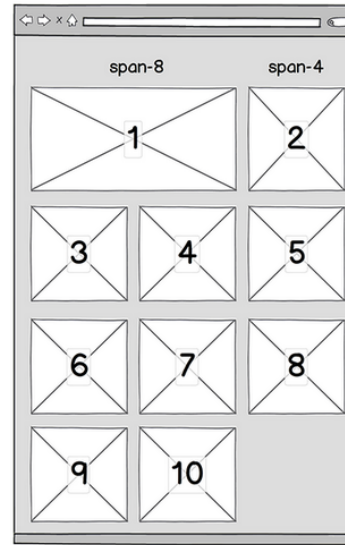
1200 (wide desktop)



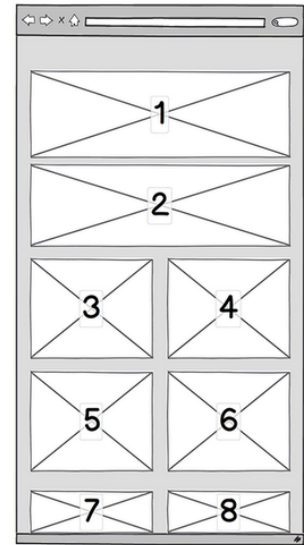
980 (normal desktop)



768 (small desktop)
min-span=4



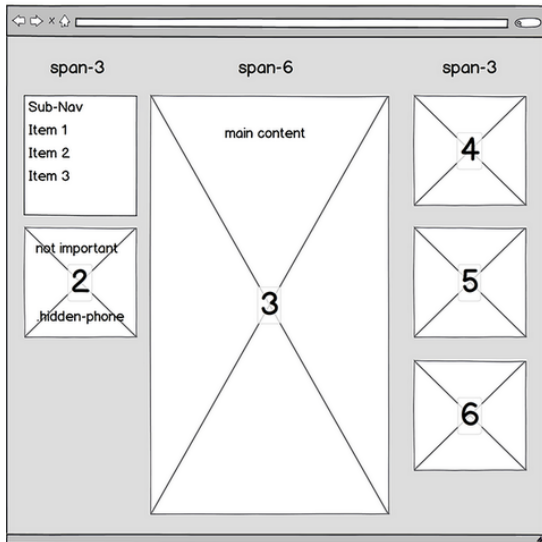
640 (tablet)
min-span=6



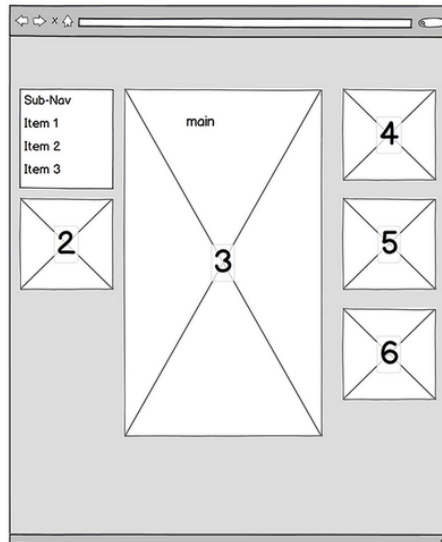
480 (phone)
min-span=12
menu collapses



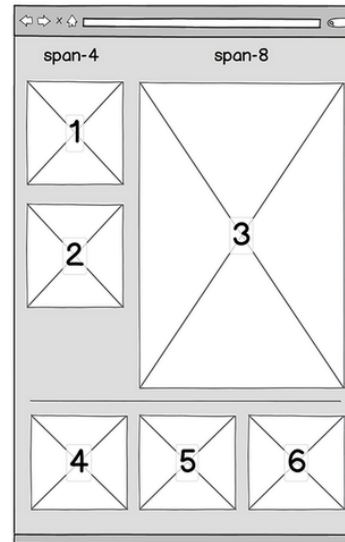
1200 (wide desktop)



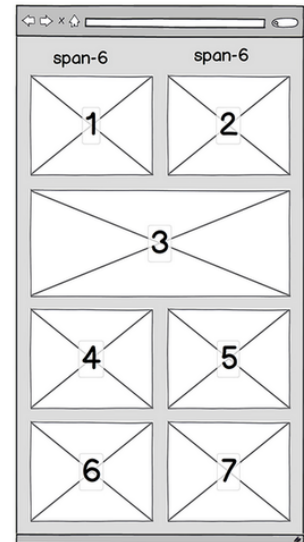
980 (normal desktop)



768 (small desktop)
min-span=4



640 (tablet)
min-span=6

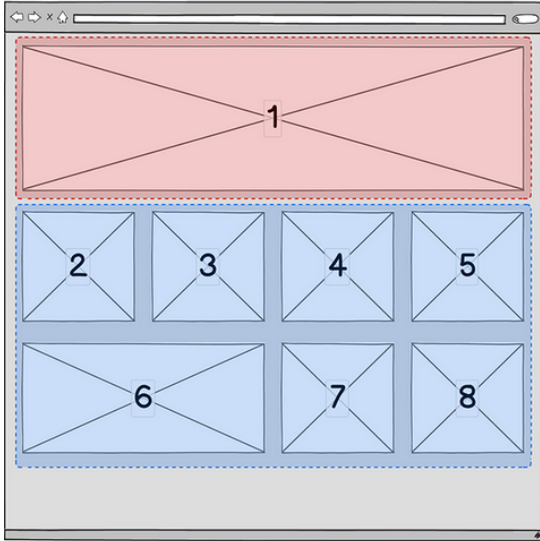


480 (phone)
min-span=12
menus collapse

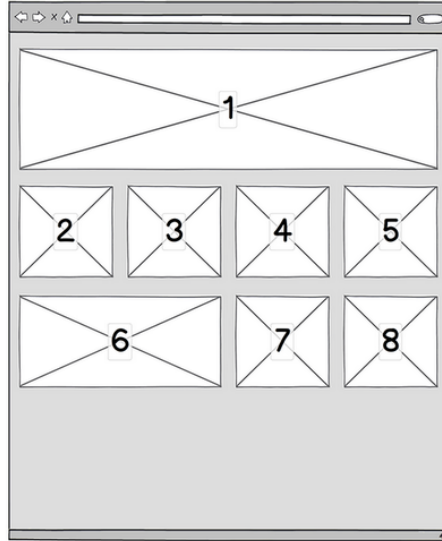


One and two sidebars

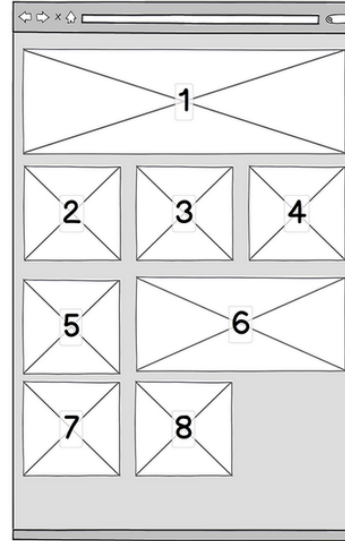
1200 (wide desktop)



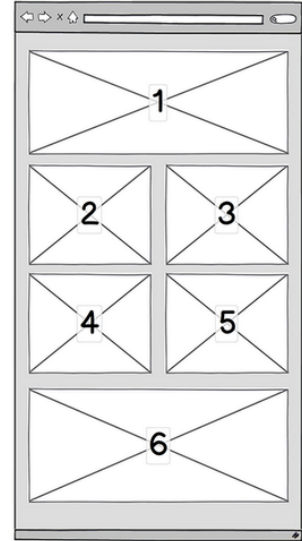
980 (normal desktop)



768 (small desktop) min-span=4



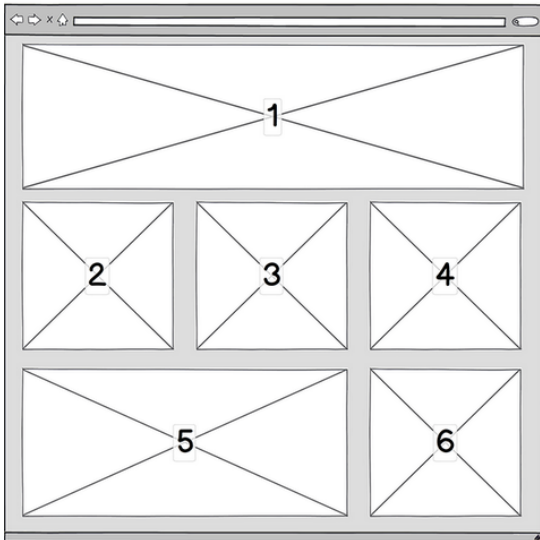
640 (tablet) min-span=6



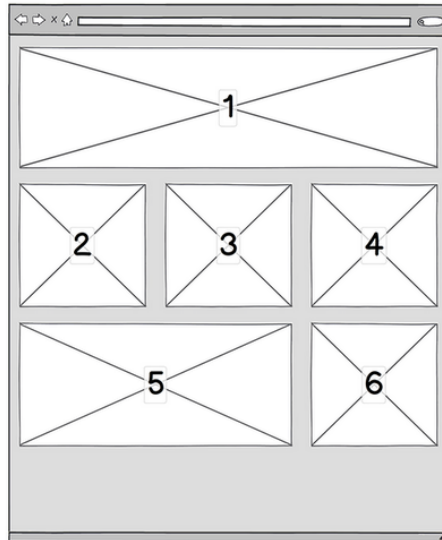
480 (phone) min-span=12 menu collapses



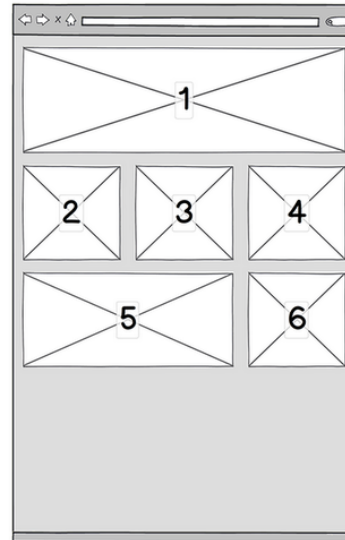
1200 (wide desktop)



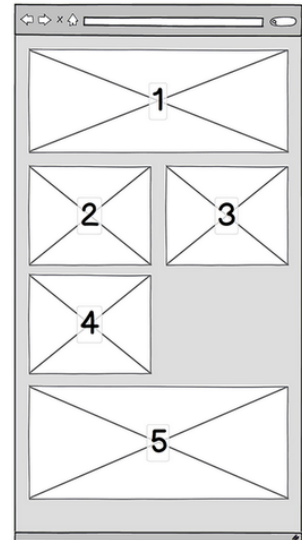
980 (normal desktop)



768 (small desktop) min-span=4



640 (tablet) min-span=6

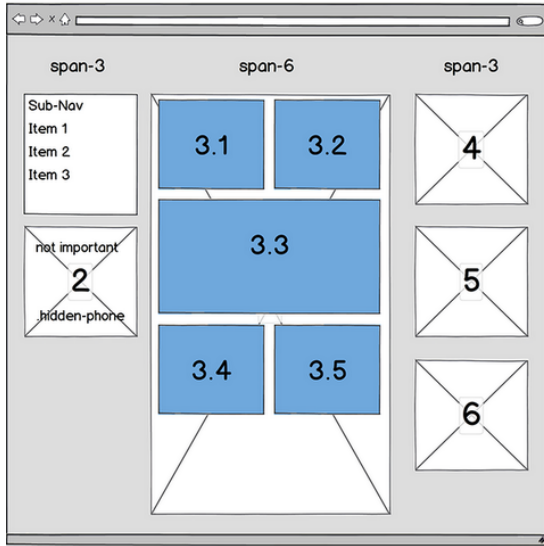


480 (phone) min-span=12 menus collapse

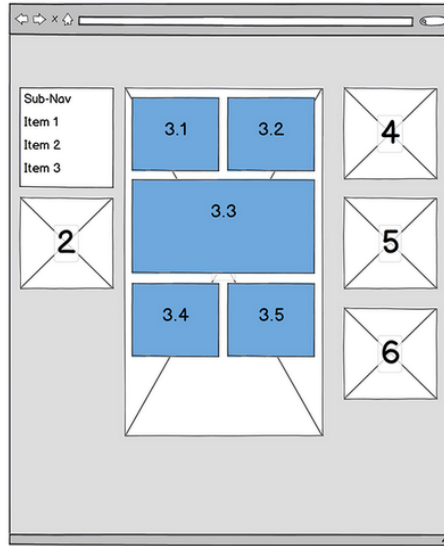


No sidebars

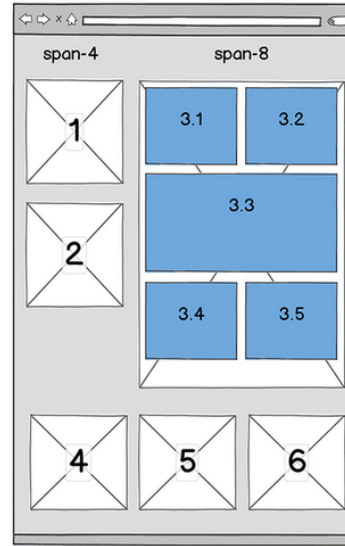
1200 (wide desktop)



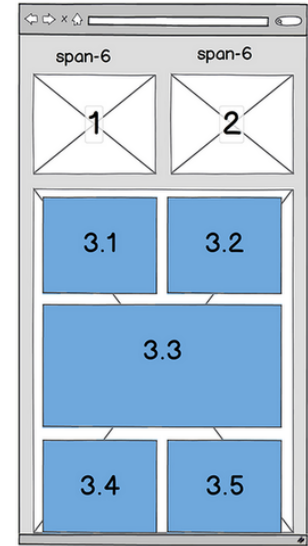
980 (normal desktop)



768 (small desktop)
min-span=4



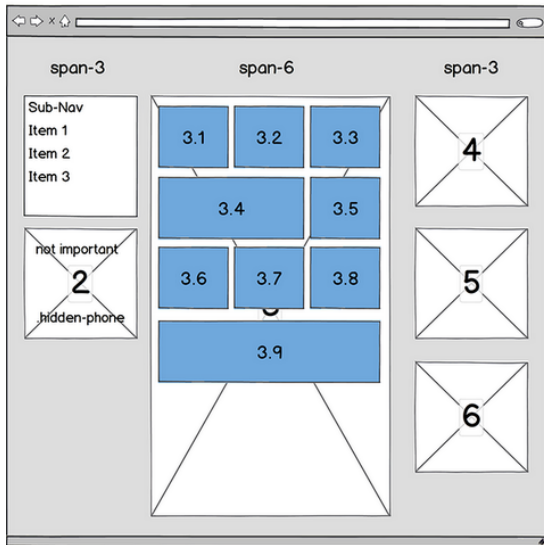
640 (tablet)
min-span=6



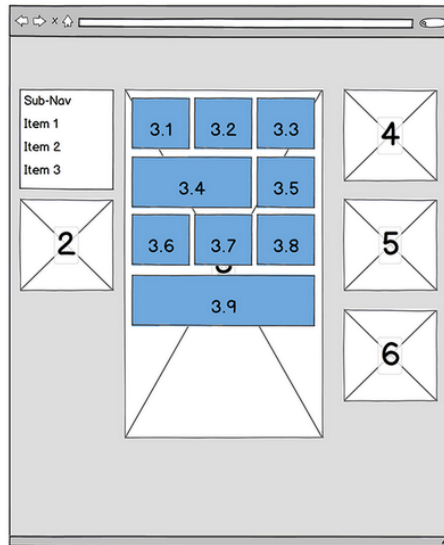
480 (phone)
min-span=12



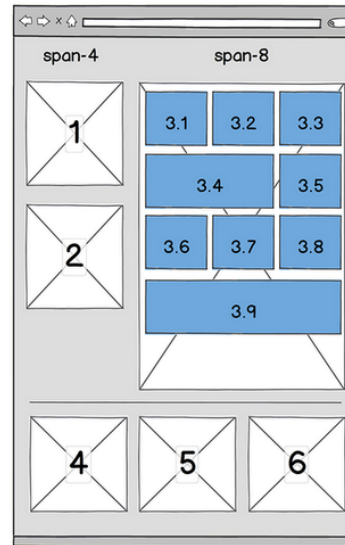
1200 (wide desktop)



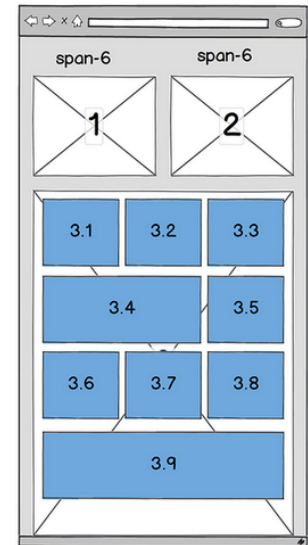
980 (normal desktop)



768 (small desktop)
min-span=4



640 (tablet)
min-span=6



480 (phone)
min-span=12
menus collapse



Content area blocks

This is complicated!

Can we find a way to support all this **sophisticated behavior** in a theme?

Can we make it **easy to implement** for site builders and content creators?

Where do we start?

Use an existing Drupal theme?

- Zen 5
- Omega
- AdaptiveTheme

Build off of a responsive framework?

- Twitter Bootstrap
- Zurb
- Skeleton

What we were looking for:

- Preserving **content hierarchy** and **legibility**
- **Easy to implement**
- **Scalability** and **flexibility** of layout options
- Support for **complex layouts**
- Consideration for **Drupal core features** and common **layout implementation strategies**
- Consideration of **Stanford** community **context** and **technologies**

Build off Twitter Bootstrap

We decided to build our own theme off of **Twitter Bootstrap**, which would provide us with **base styles** and **basic responsive behaviors**.



twitter.github.com/bootstrap

Default styles + responsive behavior

Drupal Theme



Base code that provides

- Styles and UI elements
- “Starter” responsive behavior

Why Twitter Bootstrap?



and also:

Open source

- Apache License v2.0
- Documentation licensed under CC BY 3.0

Community engagement

- Git: 39,000 stars and 9,000 forks

Handles fixed and fluid layouts

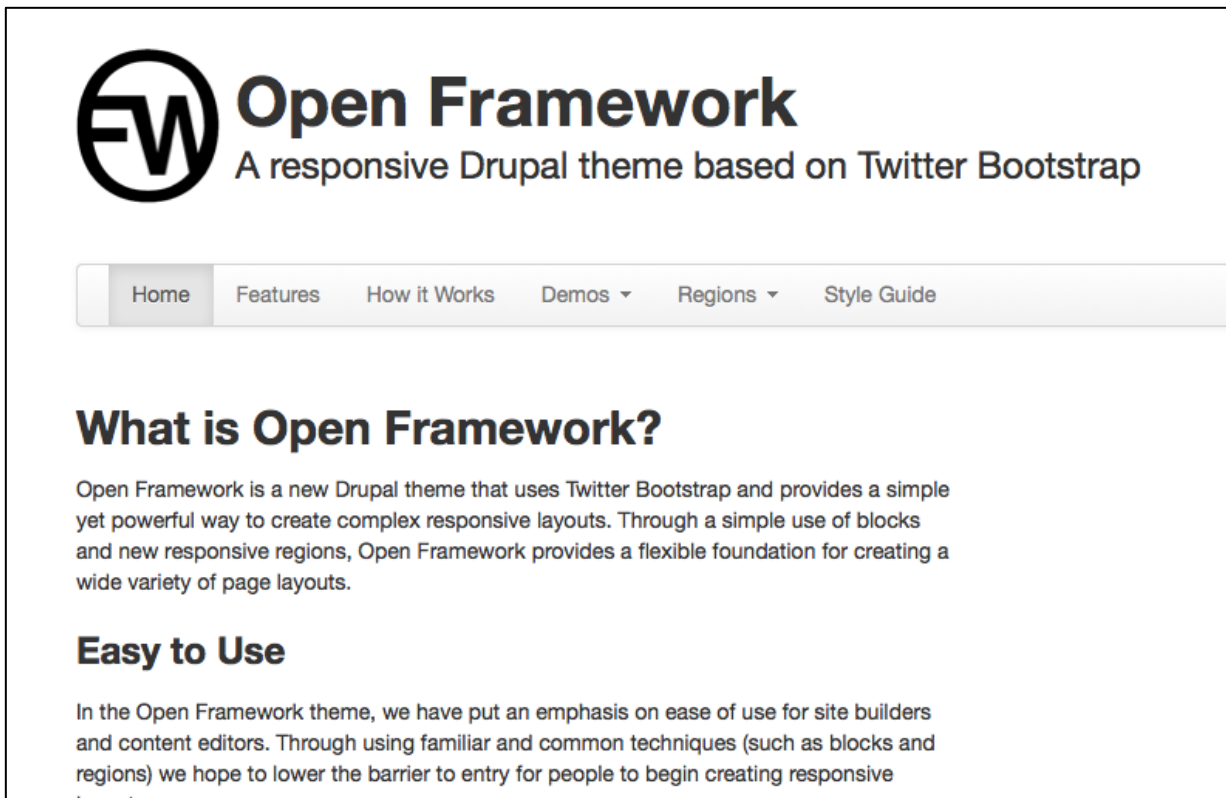
- 12-column grid system
- Grid can be nested - infinite grid



Introducing Open Framework

Open Framework

A new responsive Drupal theme based on Twitter Bootstrap.



The screenshot shows the homepage of the Open Framework website. At the top left is a circular logo containing the letters 'FW'. To its right is the title 'Open Framework' in a large, bold, sans-serif font, followed by the subtitle 'A responsive Drupal theme based on Twitter Bootstrap' in a smaller font. Below the header is a horizontal navigation menu with the following items: 'Home' (highlighted with a dark background), 'Features', 'How it Works', 'Demos' (with a downward arrow), 'Regions' (with a downward arrow), and 'Style Guide'. The main content area begins with a section titled 'What is Open Framework?' in bold. Below this title is a paragraph of text: 'Open Framework is a new Drupal theme that uses Twitter Bootstrap and provides a simple yet powerful way to create complex responsive layouts. Through a simple use of blocks and new responsive regions, Open Framework provides a flexible foundation for creating a wide variety of page layouts.' This is followed by another section titled 'Easy to Use' in bold, with a paragraph of text: 'In the Open Framework theme, we have put an emphasis on ease of use for site builders and content editors. Through using familiar and common techniques (such as blocks and regions) we hope to lower the barrier to entry for people to begin creating responsive layouts.'

Open Framework

Sophisticated

Easy to use



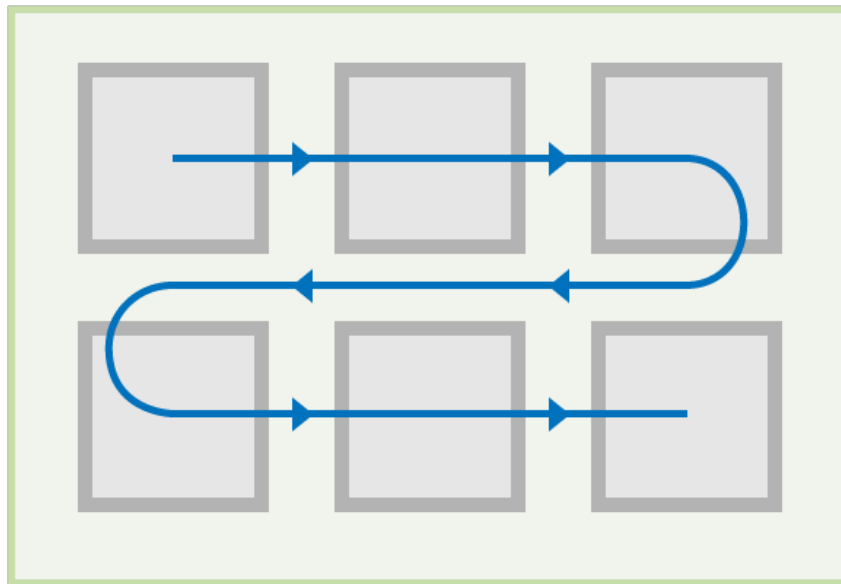
Sophisticated responsive behaviors

Open Framework provides support for two conflicting responsive patterns:

- **Row preference**
- **Column preference**

Row Preference

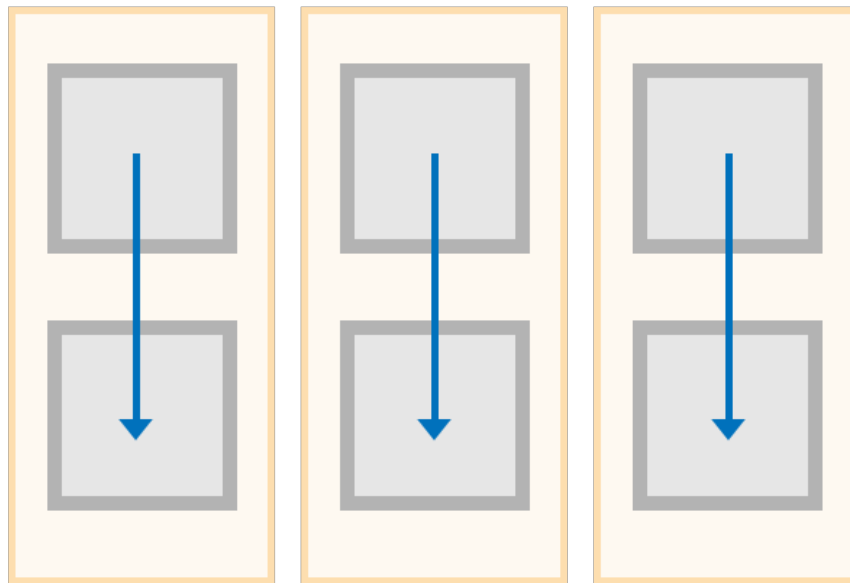
Row preference forces elements to bump other elements down when the screen gets smaller.



We call these "**flow**" regions.

Column Preference

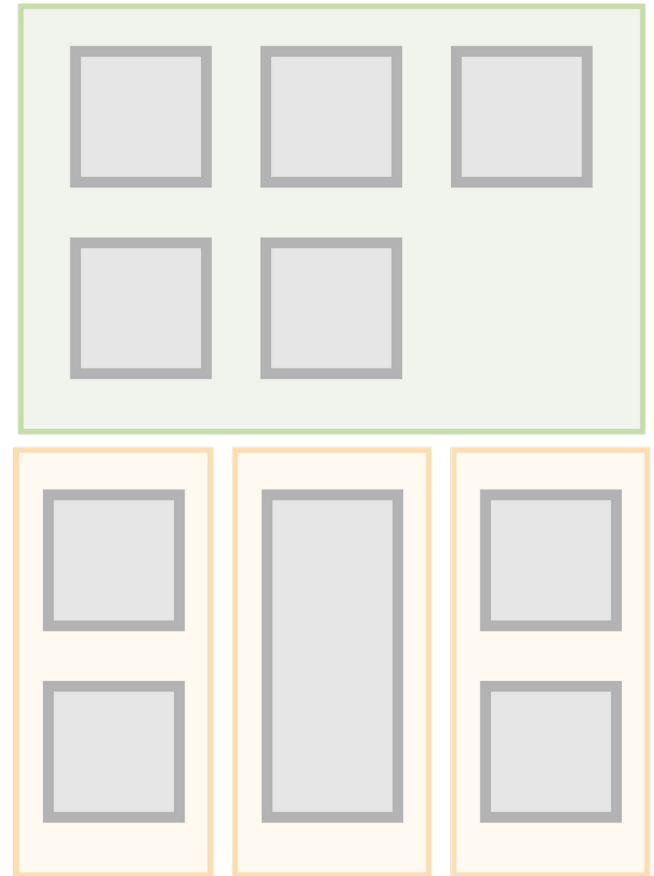
Column preference forces elements to stack side-by-side in columns.



We call these "**stacked**" regions.

A combination approach

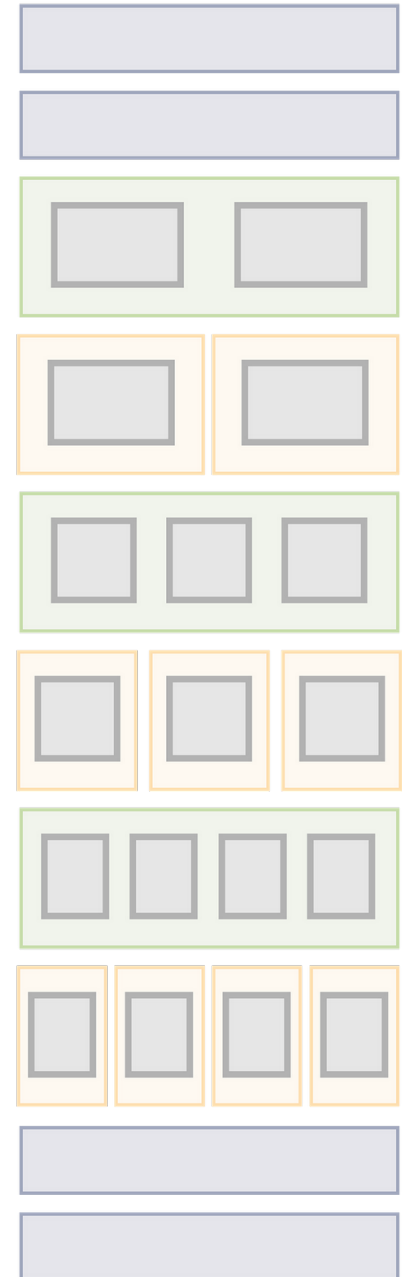
Through a combination of **stacked** and **flow** region behaviors, we can create **complex layouts** that respond well at every breakpoint.



New responsive regions

New set of **responsive regions** that support "**flow**" and "**stacked**" behavior.

Content placed in specific block regions will **respond based on that region's pre-defined behavior**.



Drupal-specific styles support

Open Framework takes the basics of Twitter Bootstrap and adds in **Drupal-friendly, semantic styles.**

Some examples:

.more-link

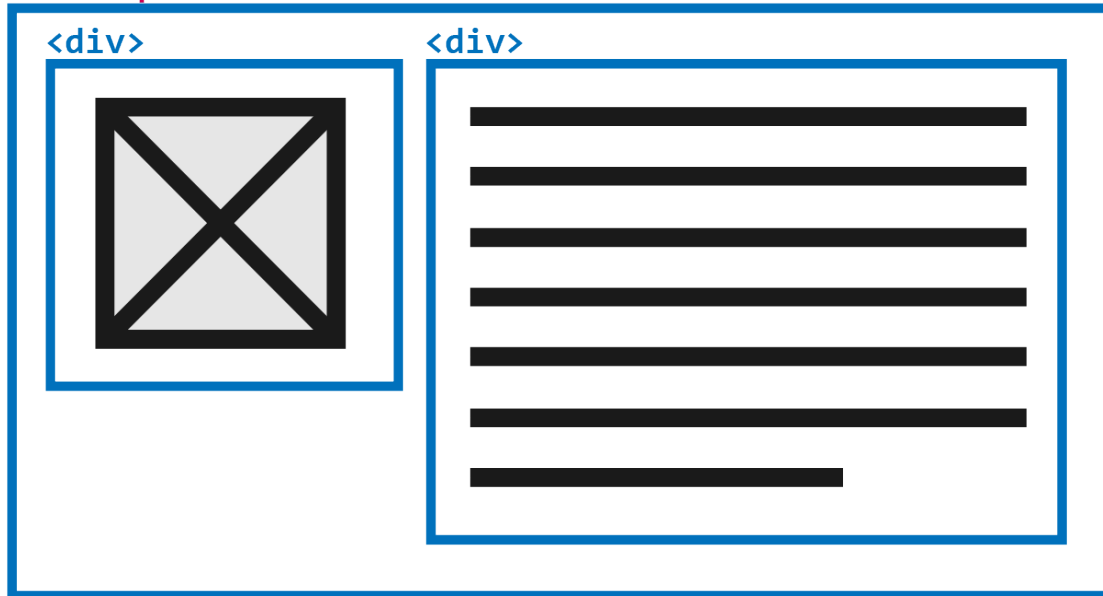
.descriptor

.border-simple

Support for common micro-layouts

We have developed a set of **styles** and **implementation strategies** for common micro-layouts we refer to as "**postcard**" layouts.

```
<div> .postcard-left
```



Support for common micro-layouts

We have developed a set of **styles** and **implementation strategies** for common micro-layouts we refer to as "**postcard**" layouts.

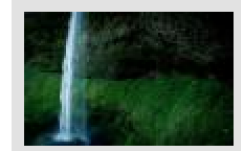
```
<div class="postcard-left">  
  <div>left</div>  
  <div>right</div>  
</div>
```

.postcard-left



`.postcard-left` floats two divs side-by-side, and does not allow wrapping. You can use this to do "image on the left, text on the right" layouts. Postcard layouts are micro-layouts where you want thumbnail images, or other elements next to a block of text. We have built support for micro-layouts into the Open Framework theme through this postcard implementation strategy.

.postcard-right



`.postcard-right` floats two divs side-by-side, and does not allow wrapping. You can use this to do "image on the right, text on the left" layouts. Postcard layouts are micro-layouts where you want thumbnail images, or other elements next to a block of text. We have built support for micro-layouts into the Open Framework theme through this postcard implementation strategy.



`.postcard-left-wrap` floats two divs side-by-side, and allows for wrapping. You can use this to do "image on the left, text on the right" layouts. Postcard layouts are

micro-layouts where you want thumbnail images, or other elements next to a block of text. We have built support for micro-layouts into the Open Framework theme through this postcard implementation strategy.

`.postcard-right-wrap` floats two divs side-by-side, and allows for wrapping. You can use this to do "image on the right, text on the left" layouts. Postcard layouts are

micro-layouts where you want thumbnail images, or other elements next to a block of text. We have built support for micro-layouts into the Open Framework theme through this postcard implementation strategy.

.postcard-left-wrap

.postcard-right-wrap

A truly Drupal style guide


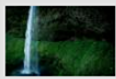

Open Framework has a **sortable style guide**.

Filter by Category

Button
Clear
Code
Container
Form
Icon
Image
Link
List

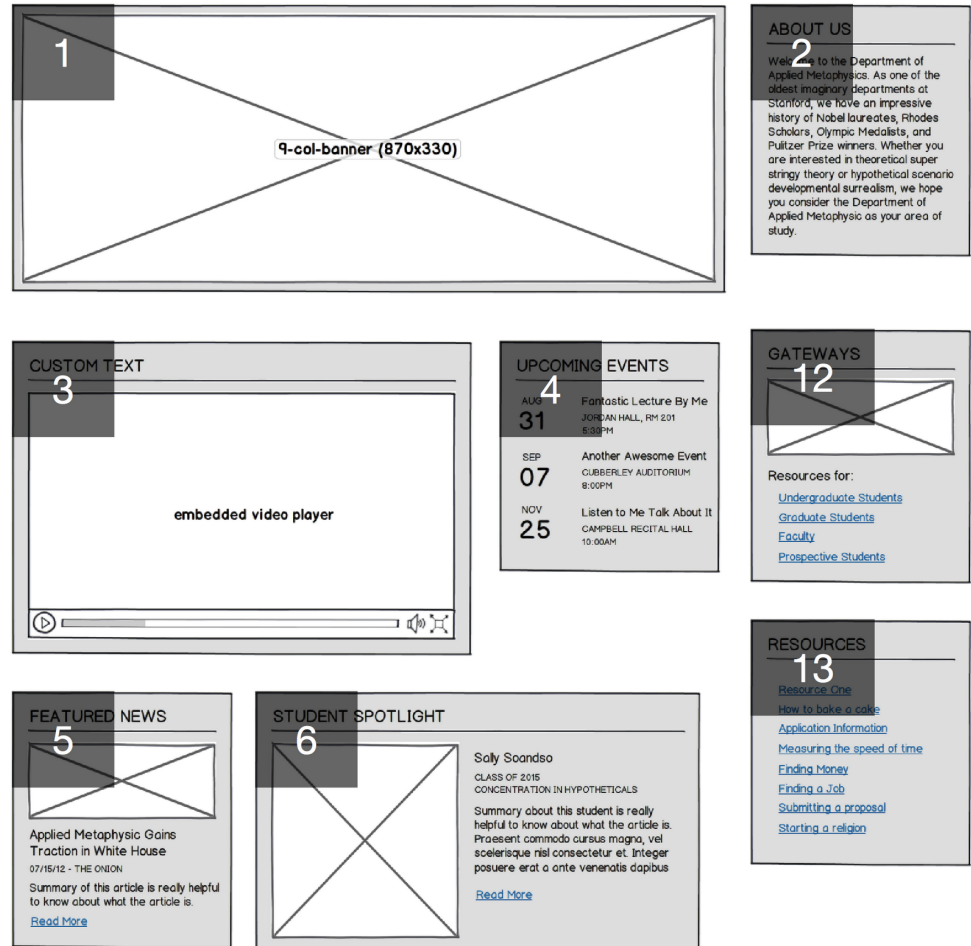
Apply

Reset

Category	Name of Style	CSS Class	HTML Elements Applied To	Example	Example Code
Image	Border Simple	.border-simple	<div>, <p>, 		<pre><p class="border-simple"> </p></pre>
Image	Border Simple No Width	.border-simple-nowidth	<div>, <p>, 		<pre><p class="border-simple-nowidth"> </p></pre>
Image	Border Shadow	.border-shadow	<div>, <p>, 		<pre><p class="border-shadow"> </p></pre>

Responsive order overlay

Responsive **order overlay** toggle that shows how **content hierarchy** will be handled on small screens.



Let's take a look...

<http://openframework.stanford.edu>



Site Building with Open Framework

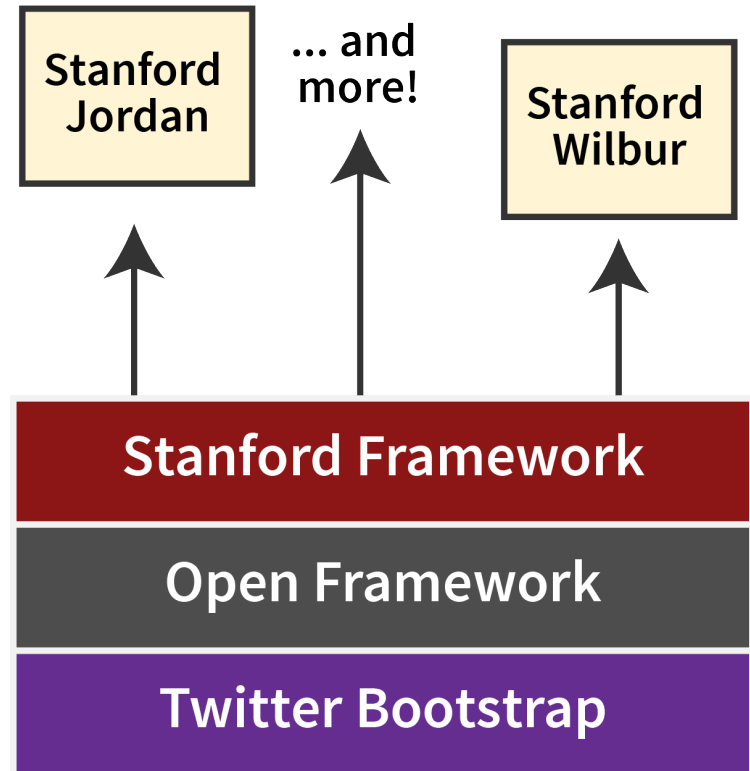
Open Framework at Stanford

Open Framework provides the **foundation** for **theme development** at Stanford.

Stanford
University

Stanford Framework

Stanford Framework is a **subtheme** of Open Framework, providing **branding** and **default styles** for units at Stanford to use or subtheme.





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Intensive dedication to the study of the ancient Mediterranean world – its languages, history, and cultures – defines Stanford Classiccs. One of the largest and most diverse programs in the country, we are an intellectually vibrant community of 19 faculty members, 27 graduate students, and over 60 undergraduate majors and minors.

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- Ancient Science

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- Empire and Aftermath: Greek Art from the...
- The Black Mediterranean: Greece, Rome...
- Greek Art In and Out of Context
- Appropriations of Greek Art

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OFW styled with CSS Injector



Stanford IT Unconference

October 18, 2012 • Li Ka Shing Center for Learning and Knowledge

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IT's a Wrap!

Thanks everyone for making this year's IT Unconference a success. We hope you have found it useful, met some new colleagues and started to build new communities. Please visit the [Community of Practice](#) website for tips on how to keep your new community growing!

The unconference is a day-long event geared toward building community among Stanford's IT professionals. The event is sponsored by schools, departments, and administrative units across the University. (You can read about last year's event on the [2011 Stanford IT Unconference website](#) and in the [Stanford Report](#).)

After a casual breakfast meet-and-greet, this year's program will kick off with a panel discussion about new education technologies: What are some of the most exciting developments? How are they being applied, adapted to, and supported in the real world?

Following the panel discussion, attendees (that's you!) will propose topics for sessions, building the agenda for the rest of the day. Four sets of 50-minute sessions will begin at 11:00 a.m., with a break for lunch and a wrap-up session from 4–5 p.m. The event is free and breakfast, lunch, and snacks will be provided.

The IT Unconference is a rare opportunity to spend time working with others, networking, and helping build the IT community at Stanford. You're welcome to attend for whatever part(s) of the program fit your schedule, but you will get the most out of the event if you attend for the whole day.

[Add this event to your calendar](#)

What is an unconference?

An unconference is a facilitated event where the attendees create the agenda and lead discussions around a theme.

The session topics are dynamic and decided at the event when participants propose topics they want to discuss and sign up for topics proposed by others. Participants follow the [unconference Law of Two Feet](#): if you find yourself not learning or contributing at any time, it is your responsibility to use your two feet to find somewhere you are learning or contributing.


With this format, we hope to enable discussion topics that are relevant to now and the future.


Profile


If you are registered, please make sure your profile is up-to-date so that it's easier to connect with like-minded colleagues.


[Update Profile](#)

#itunconf

 **Marco Wise** @mastermarco 18 Oct
Final count: 369 attendees. A 60% increase from 2011. #itunconf
[Expand](#)

 **Michael Widner** @mwidner 18 Oct
Zach Chandler on Stanford Web Services and Drupal Features: [drupalfeatures.stanford.edu](#) and [sites.stanford.edu](#) #itunconf
[Expand](#)

 **Michael Widner** @mwidner 18 Oct
Stanford is "past the tipping point with Drupal", now has a common language. #itunconf
[Tweet #itunconf](#)



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[Get inspired!](#)

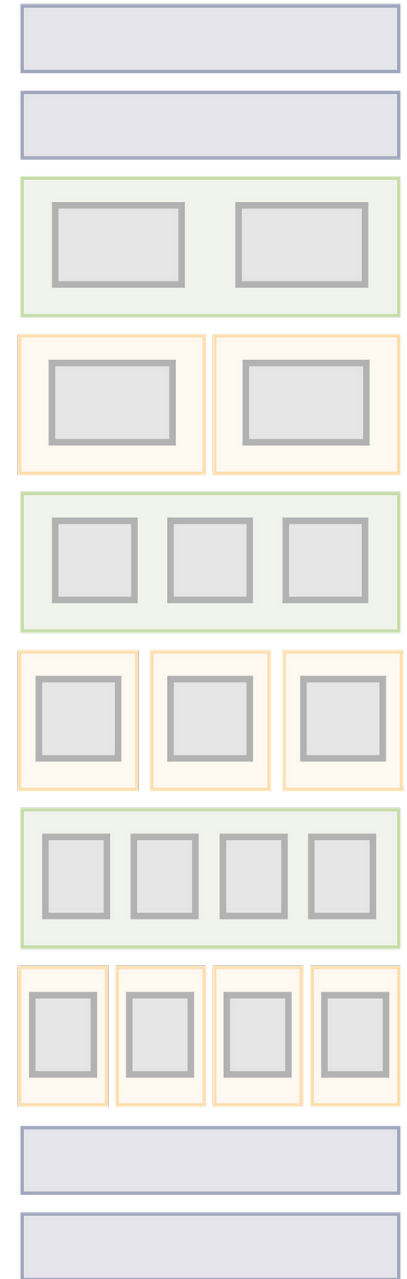


Modules that play nice

- Block Class
- Views
- BEAN
- Context
- CSS Injector

First blocks, then the world!

Region behaviors can be applied to panels regions, display suite layout regions, or even hand-coded regions.



Using Open Framework

Download version 7.x-2.x on github

github.com/SU-SWS/open_framework

Visit the Open Framework website at

openframework.stanford.edu

If you want to **participate, contact us** to join the contribution team on Github.

Places to learn more about RWD:

- **“Responsive Web Design” by Ethan Marcotte (a book apart)**
<http://www.abookapart.com/products/responsive-web-design>
- **LukeW — Multidevice Layout Patterns**
<http://www.lukew.com> and <http://www.lukew.com/ff/entry.asp?1514>
- **Jeffrey Zeldman — Content First**
<http://www.zeldman.com/category/content-first/>
- **A List Apart — Responsive Web Design**
<http://www.alistapart.com/articles/responsive-web-design/>
- **Ben Callahan — Responsive Retrofitting**
<http://bencallahan.com/> and <https://github.com/bencallahan/rwd-retrofitting>

Connect with us

<http://openframework.stanford.edu>

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