

Setting up a Base Theme with Twitter Bootstrap

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About Themes

- A collection of code that tells a WordPress website how to lay out pages and what they should look like
- Can be obtained from the Theme Directory or direct purchase, but pre-built themes don't always meet your needs
- Child themes can be used to customize pre-made themes, but they have limitations
- Building from scratch is the best way to get a theme that meets your needs, but is labour-intensive
- Bootstrap is one way to speed up theme development

What is Bootstrap?

- Bootstrap is a free, open source framework
- It provides pre-defined HTML and CSS for common parts of a website. Ex:
 - Layouts
 - Buttons
 - Navigation
- Also includes optional icon fonts and jQuery plugins



Why Bootstrap?

- Frameworks make development faster
- Bootstrap is not the only good framework out there (ex: Foundation)
- Some benefits:
 - It's really common
 - Responsive and mobile-first
 - Grid system for layouts
- Even if Bootstrap isn't your bag, using a framework at all will make your life easier

What version?

- Bootstrap comes in 3 flavours
 - Compiled and minified CSS, JavaScript and fonts
 - Source code using Less, JavaScript and fonts, plus docs
 - Ported from Less to Sass, JavaScript and fonts
- Use the one that best matches your project
- Ex: compiled and minified CSS works well for WordPress, even if you're using Sass for your stylesheets



Bootstrap Basics

- Based on a grid system with 12 breakpoints
- Grid and breakpoints are defined with CSS classes
- Bootstrap will wrap any HTML elements to the next line when the number of elements and their respective classes exceeds 12
- By using the right CSS, you can set elements to change their width depending on screen size (ex: full width on mobile, $\frac{1}{2}$ width on tablet, $\frac{1}{3}$ width on desktop)
- Lots of other stuff available you can do with layouts - this is just the basics!

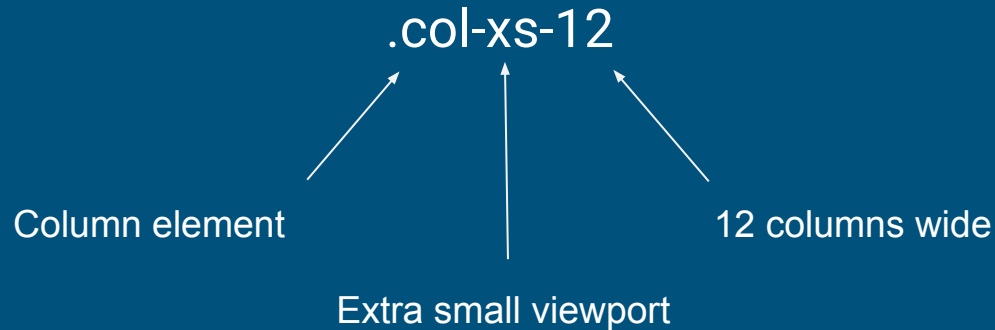
The Fluid Grid



Live example at <http://getbootstrap.com/2.3.2/scaffolding.html>

Setting Up a Page Layout

- Grid system uses rows and columns
- All rows must be inside a container, and all columns must be inside a row
- Column CSS provides information about that element's characteristics. Ex:



Example Code

```
<div class="entry-content container">
  <div class="row">
    <div class="col-xs-12 .col-sm-6 .col-md-4 .col-lg-3">
    </div>
    <div class="col-xs-12 .col-sm-6 .col-md-4 .col-lg-3">
    </div>
    <div class="col-xs-12 .col-sm-6 .col-md-4 .col-lg-3">
    </div>
  </div>
</div>
```

Only the Basics

- Lots of configurations possible with this as a basis
- Stack rows, nest rows, set up columns of various widths
- Tons of examples available over at <http://getbootstrap.com/getting-started/#examples>
- Remember: your site doesn't have to come out looking Bootstrappy any more than it has to look WordPress-y



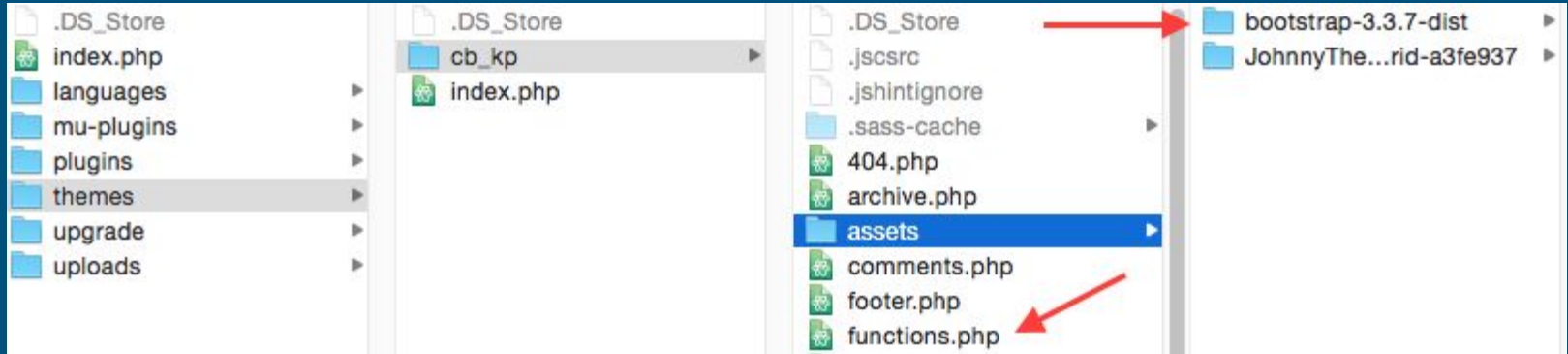
Base Themes

- Some prep work needed to add Bootstrap to a theme
- If you're developing a WordPress theme from scratch, a base theme will give you a head start
- Base themes like are designed to act as a 'seed' for your theme by providing the bare minimum code for a functional theme
- Base themes are edited directly
- Example: _s (Underscores) - <https://underscores.me/>
- Once your base theme is in your WordPress install's themes folder, it's time to add Bootstrap

Adding Bootstrap...

- First order of business: download Bootstrap from <http://getbootstrap.com/getting-started/>
- In your theme folder, create a new folder called /assets
- Copy Bootstrap into /assets as a sub-folder
- Before WordPress can use Bootstrap, you have to enqueue it in your theme's functions.php file

Bootstrap Inside a WordPress Theme



...And Telling WordPress It's There

```
wp_register_style( 'yourTheme-bootstrap-css',
get_template_directory_uri() .
'/assets/bootstrap-3.3.7-dist/css/bootstrap.min.css', array(),
'3.3.7', 'all' );
wp_enqueue_style( 'yourTheme-bootstrap-css' );

wp_register_script( 'yourTheme-bootstrap-js',
get_template_directory_uri() .
'/assets/bootstrap-3.3.7-dist/js/bootstrap.min.js', array( 'jquery'
), '3.3.7', true );
wp_enqueue_script( 'yourTheme-bootstrap-js' );
```

You're Done!

- No, really. That's it. You can start writing your code with Bootstrap now!
- Follow the conventions for WordPress theme development - just use Bootstrap for your CSS classes as you go



Thank you! That's a wrap.



Questions? Comments?

Resources

Bootstrap - <http://getbootstrap.com/>

Bootstrap with WordPress tutorial -

<http://blog.teamtreehouse.com/responsive-wordpress-bootstrap-theme-tutorial>

Underscores - <https://underscores.me/>

About Theme Development - https://codex.wordpress.org/Theme_Development

WordPress Coding Standards -

<https://make.wordpress.org/core/handbook/best-practices/coding-standards/>