

BOOTSTRAP 3

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BEFORE WE BEGIN

- Who are we
- Course practicals
- Computer, OS, editor, browser
- Material in english, because Finnish translations are awkward

WHAT IS BOOTSTRAP

- Front-end framework
- Helps to build responsive and mobile first interfaces
- Open-source
- Demo: www.getbootstrap.com - built with Bootstrap
- Built by folks from Twitter

ADVANTAGES

- Speed
 - Basic styling for most HTML elements
- Consistency
 - Ie. grid system
- Resources
- Light-weight (compared to Wordpress)
- Pure HTML, CSS, Javascript etc.
- Compatible with modern browsers
- Customization

INSTALL

- Install options:
 - Download package for local development
 - Bower or NPM package managers
 - Content Deliver Network
- Also possible to compile using Less

GET STARTED

- Source
 - CSS
 - fonts
 - JS
 - IMG
 - etc.
- What are minified files
- Make index.html using basic template or examples

```
bootstrap/  
|— css/  
|   |— bootstrap.css  
|   |— bootstrap.min.css  
|   |— bootstrap-theme.css  
|   |— bootstrap-theme.min.css  
|— js/  
|   |— bootstrap.js  
|   |— bootstrap.min.js  
|— fonts/  
|   |— glyphsicons-halflings-regular.eot  
|   |— glyphsicons-halflings-regular.svg  
|   |— glyphsicons-halflings-regular.ttf  
|   |— glyphsicons-halflings-regular.woff
```

BASIC CSS

- Typography
 - Base font-size: 14px and line-height: 1.482
- Paragraphs
- Headings
- Alignment
- Emphasis
- Code
- Block-quote

TABLES

- Basic HTML table: `class="table"`
- Striped background: `class="table table-striped"`
- Table with borders: `class="table table-bordered"`
- Enable hover: `class="table table-hover"`
- Compact table: `class="table-condensed"`
- Responsive with horizontal scroll: wrap table with `<div class="table-responsive">`
- Optional classes for table rows:
 - `<tr class="active"></tr>`
 - `<tr class="success"></tr>`
 - `<tr class="danger"></tr>`

LISTS

Basic HTML lists:

- Unordered
- Ordered
- Definition
- Helper classes:
 - `list-unstyled`
 - `list-inline`

List groups:

- Good for navigation
- Item helper classes:
 - `list-group-item-success`
 - `list-group-item-info`
 - `list-group-item-warning`
 - `list-group-item-danger`

BASIC PAGE LAYOUT

- Jumbotron / header
- Page header
- Navbar
- Container (container-fluid)
- Row > column > content
- Footer

GRID SYSTEM I



Features	Extra small devices	Small devices	Medium devices	Large devices
Bootstrap 3 Grid System	Phones (<768px)	Tablets (≥768px)	Desktops (≥992px)	Desktops (≥1200px)
Max container width	None (auto)	750px	970px	1170px
Grid behavior	Horizontal at all times	Collapsed to start, horizontal above breakpoints		
Class prefix	.col-xs-	.col-sm-	.col-md-	.col-lg-
Max column width	Auto	~62px	~81px	~97px
Gutter width	15px on each side of a column (i.e. 30px)			

GRID SYSTEM 2

- Offsetting
- Nesting
- Hide elements in certain device
 - .visible-xs
 - .visible-sm
 - .visible-md
 - .visible-lg
- Make element visible only in certain device width
 - .visible-xs-*
 - .visible-sm-*
 - .visible-md-*
 - .visible-lg-*

FORMS

- Three form layouts:
 - Vertical form (default)
 - Horizontal
 - Inline
- Explore different form elements with a little help from Bootstrap documentation

HELPER CLASSES

- Contextual backgrounds
- Center block alignment
- Quick floats
- Clearfix
- Showing and hiding content

SOME BOOTSTRAP COMPONENTS

- Glyphicons (scalable "font")
- Images
- Buttons
- Alerts
- Dropdowns
- Pagination

NAVIGATION

- Basic navbar: `navbar-default`
 - Always visible: `navbar-fixed-top` or `navbar-fixed-bottom`
 - Colors inversed: `navbar-inverse`
- Navigation elements
 - Tabs
 - Pills
 - Stacked pills

JAVASCRIPT

- Transitions are by default on
- Usage via Javascript or data attributes
- jQuery before script!
- Modal
- Carousel

CUSTOMIZING

- Never edit directly Bootstrap framework
- Make new custom CSS-stylesheet
- Override original elements (h1,h2,p etc.)
- Use custom classes
- Use custom ID's

RESOURCES I

- Themes: startbootstrap.com
- Start Bootstrap Development tools
- Font Awesome
- Bootsnoipp
- Bootlint this page (Chrome)
- Bootstrap Magic
- Flat UI
- Browser-sync
- Ratchet (web-applications)

COURSE PROJECT

Ilkka-webpage with Bootstrap 3.0