Bootstrap Introduction

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Agenda

- What is Bootstrap?
- Using Bootstrap
- CSS Components
- JavaScript Widgets
- What's new in Bootstrap 4?
- Q & A

What is Bootstrap?

- Open source front-end framework
- Pre-made HTML/CSS templates and classes
 - Reduces work for e.g., creating buttons, aligning items, formatting text, etc. becomes easier
- Format user interface, web sites
- JavaScript widgets & plugins
- Mobile first, responsive layout

Benefits

- Faster development
- Browser compatibility
- Attractive UI, good for developers who lack UI skills
- Easy to learn
- Responsive layouts

Using Bootstrap

- Include in CDN
- Download files
- Package managers
 - NPM
 - Bower

CSS Components

- Forms & Input Groups
- Tables
- List Groups
- Cards
- Progress Bars
- Alerts
- Navbar & Menus
- Buttons & Button Groups
- Pagination
- Media Objects
- Utility Classes

JavaScript Widgets

- Carousel
- Accordion
- Modal
- Tooltips
- Popovers

What's new in Bootstrap 4?

- CSS pre-compilier
 - Moved from Less to Sass
 - Sass is more popular
 - Better performance C++ Sass compiler is faster
- Button styles & flat design
 - Flat style
 - More color classes
 - New outline classes
 - .btn-outline-*
- Improved grid system
 - Changes in underlying architecture
 - More responsive 'rem' and 'em' units instead of pixels
 - New –xl tier for extra large screens
 - Grid uses flexbox
 - No more offset classes, use margin auto classes instead

What's new in Bootstrap 4?

Flexbox

- Use flexbox to manage grids, navigation, components and more
- Display utilities can transform children items into flex items
 - <div class="d-flex"> ... </div>

Cards

- Cards replace panels, wells and thumbnails
- Use flexbox
- Less markup
- .card-body instead of .well
- Use .card-title for titles
- Image headings

NavBar

- Flat design
- Uses flexbox
- Wrapping .navbar with .navbar-expand{-sm|-md|-lg|-xl} for collapse
- More color schemes

What's new in Bootstrap 4?

Form changes

- Dropped .form-horizontal class
- Forms using grids require the .row class and can use .col-formlabel for labels
- Use .form-control-lg and .form-control-sm to increase or decrease the size of an input control
- Help text use .form-text class instead of .help-block class

Other changes

- Bigger fonts and headings
- Dropped support for IE8 and IE9
- Inversed tables
- Glyphicons dropped, Font-awesome is recommended
- New sizing and spacing classes

Q & A

Thank you!