

20 - Bootstrap Javascript UI

OUTCOMES

1. Learn about Bootstrap Tooltips
2. Learn about Bootstrap Popovers
3. Learn how to install and use Font Awesome
4. Setup a basic UI with Bootstrap that uses Tooltips, Popovers and other Javascript functions

TIME

- 2 - 4 hours

MATERIALS

- Code Editor
- Web Browser - Chrome
- Pen and paper for notes and to do's

BOOTSTRAP USER INTERFACE DESIGN TOOLS

TOOLTIPS

<https://getbootstrap.com/docs/4.0/components/tooltips/>

The screenshot shows the Bootstrap 4.0 documentation page for Tooltips. The page has a purple header with the Bootstrap logo and navigation links: Home, Documentation, Examples, Themes, Expo, and Blog. A search bar is on the left. The main content area is titled 'Tooltips' and includes a sub-header 'Documentation and examples for adding custom Bootstrap tooltips with CSS and JavaScript using CSS3 for animations and data-attributes for local title storage.' Below this is an 'Overview' section with a list of things to know when using the tooltip plugin. A sidebar on the right lists various components and their sub-features.

There's a newer version of Bootstrap 4!

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Tooltips

Documentation and examples for adding custom Bootstrap tooltips with CSS and JavaScript using CSS3 for animations and data-attributes for local title storage.

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Overview

Things to know when using the tooltip plugin:

- Tooltips rely on the 3rd party library [Popper.js](#) for positioning. You must include [popper.min.js](#) before bootstrap.js or use [bootstrap.bundle.min.js](#) / [bootstrap.bundle.js](#) which contains Popper.js in order for tooltips to work!
- If you're building our JavaScript from source, it [requires util.js](#).
- Tooltips are opt-in for performance reasons, so **you must initialize them yourself**.
- Tooltips with zero-length titles are never displayed.
- Specify `container: 'body'` to avoid rendering problems in more complex components (like our input groups, button groups, etc).
- Triggering tooltips on hidden elements will not work.
- Tooltips for `.disabled` or `disabled` elements must be triggered on a wrapper element.
- When triggered from hyperlinks that span multiple lines, tooltips will be centered. Use `white-space: nowrap` on your `<a>`s to avoid this behavior.
- Tooltips must be hidden before their corresponding elements have been removed from the DOM.

Overview
Example: Enable tooltips everywhere
Examples
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Disabled elements
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POPOVERS

<https://getbootstrap.com/docs/4.0/components/popovers/>

The screenshot shows the Bootstrap 4.0 documentation page for Popovers. The page has a purple header with the Bootstrap logo and navigation links: Home, Documentation, Examples, Themes, Expo, and Blog. A search bar is on the left. The main content area is titled 'Popovers' and includes a sub-header 'Documentation and examples for adding Bootstrap popovers, like those found in iOS, to any element on your site.' Below this is an 'Overview' section with a list of things to know when using the popover plugin. A sidebar on the right lists various components and their sub-features.

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Popovers

Documentation and examples for adding Bootstrap popovers, like those found in iOS, to any element on your site.

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Overview

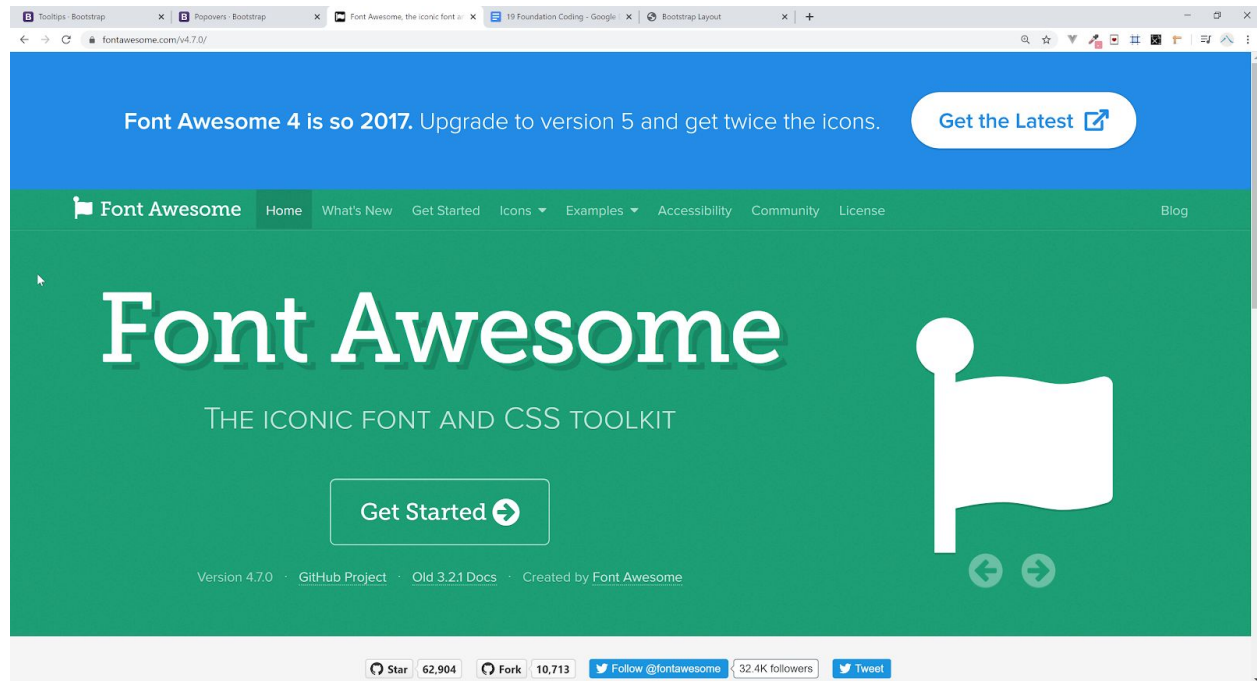
Things to know when using the popover plugin:

- Popovers rely on the 3rd party library [Popper.js](#) for positioning. You must include [popper.min.js](#) before bootstrap.js or use [bootstrap.bundle.min.js](#) / [bootstrap.bundle.js](#) which contains Popper.js in order for popovers to work!
- Popovers require the [tooltip plugin](#) as a dependency.
- If you're building our JavaScript from source, it [requires util.js](#).
- Popovers are opt-in for performance reasons, so **you must initialize them yourself**.
- Zero-length `title` and `content` values will never show a popover.
- Specify `container: 'body'` to avoid rendering problems in more complex components (like our input groups, button groups, etc).
- Triggering popovers on hidden elements will not work.
- Popovers for `.disabled` or `disabled` elements must be triggered on a wrapper element.
- When triggered from anchors that wrap across multiple lines, popovers will be centered between the anchors' overall width. Use `white-space: nowrap` on your `<a>`s to avoid this behavior.

Overview
Example: Enable popovers everywhere
Example: Using the container option
Example
Four directions
Dismiss on next click
Disabled elements
Usage
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FONT AWESOME

<https://fontawesome.com/v4.7.0/icons/>



ACTIVITES

1. Install a local version of Bootstrap and complete the UI design task
2. Think of a function that works when clicking on of the UI icons - write it and experiment

STUDENT INTERACTIONS

1. Online demo
2. Chats online and code reviews

QUESTIONS & REFLECTION

1. This week will be busy, as we move towards Formative-B and the Summative Handout, Are you:
 - Doing 2 - 3 hours of code study per day?
 - Communicating with your teacher about any issues or help you need?
 - Doing extra study via:
 - Books
 - Freecodecamp
 - Creating a interesting mini-project that could use javascript
2. Have you started Formative-B? Do you need any assistance?

MODULE OUTCOMES

Foundation coding

These learning outcomes will enable you to:

- Debug JavaScript to eliminate errors
- Include a JavaScript library to meet project requirements
- Extend a JS library with a 3rd party plugin
- Use a range of production tools to assist in the development of a project
- Use JavaScript to manipulate the DOM
- Implement functionality of UI components with appropriate raw JavaScript and/or a library
- Write code consistently following a code style guide

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- Quality assure own code by testing against industry standards
- Define deliverables based on use cases prior to production
- Write an appropriate proposal for a web project
- Set critical deadline milestones for project during the planning stage, and analyses variations from this when signing off the project