

Lab 3: Responsive Design and JavaScript

In this exercise we will enhance the HTML page from Lab 2 by making it responsive when displayed on different size screens. This involves using @media queries in the CSS to select custom style rules for several display sizes.

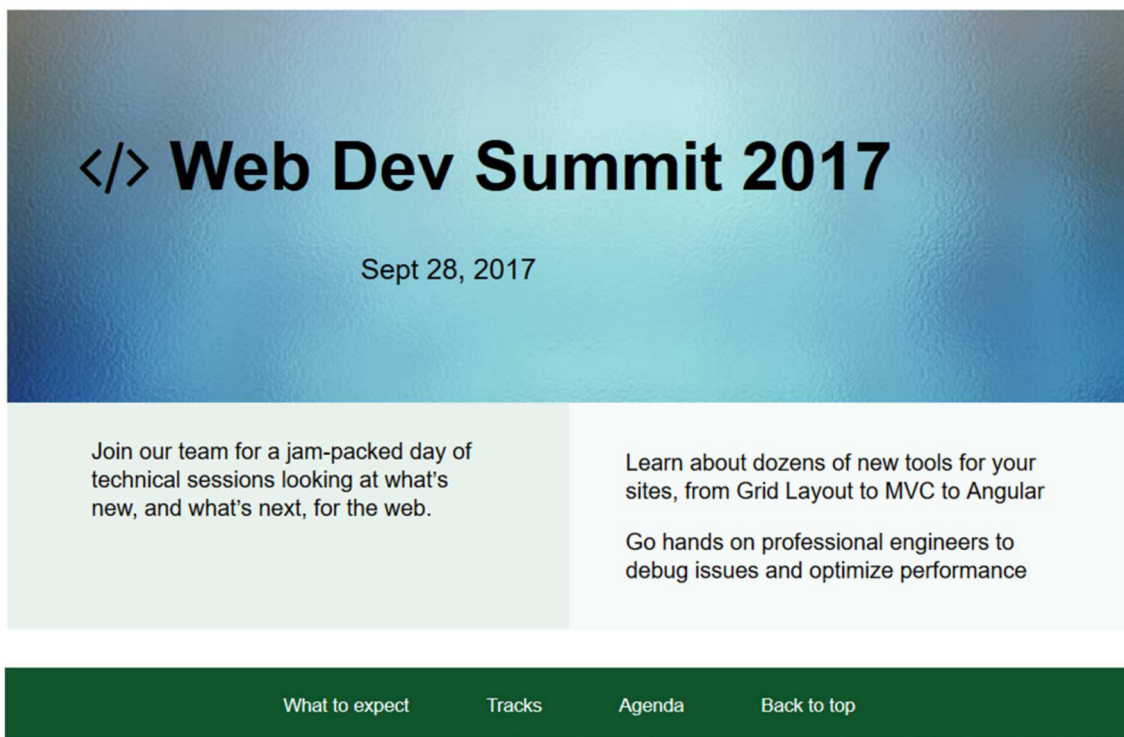
Screen sizes

Large: At least 1000 px wide. This is the page from Lab 2

Medium: Between 600 px and 1000 px wide.

Make the header at the top of the page smaller (less height) and adjust the font size if necessary so the main heading fits on one line.

The last column on the right side with the menu should be removed. Display the menu fixed at the bottom of the page with the items arranged horizontally.



Add padding so that the content at the end of the page is not hidden by the menu.

12:00 - 1:00	Lunch
1:00 - 5:00	Sessions
5:00 - 7:00	Party!

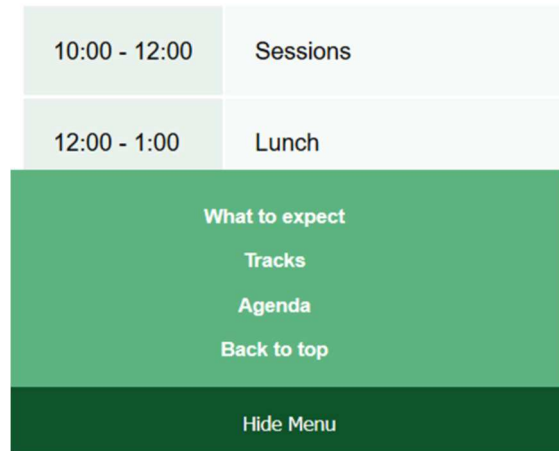
What to expect Tracks Agenda Back to top

Small: Less than 600 px wide.

Reduce the size of the font in the header so it doesn't wrap on phone size screens.



Display "Show Menu" at the bottom of the screen which when clicked/tapped will open the menu above it.



The menu items should be displayed vertically and centered and display "Hide Menu" below it. If an item is selected from the menu or "Hide Menu" is pressed, hide the menu and redisplay "Show Menu".

Note that menu handling will require JavaScript for processing the selections.

What to Expect

25 technical sessions

The main track is 25 exciting technical sessions, covering everything from performance, accessibility, testing and security using the latest tools and APIs for building Progressive Web Apps.

Add payments and virtual reality to your sites, and build modern layouts with new CSS features like CSS Grid.



Arrange the track items by column - first column items from medium width layout above second column items.

The items should be displayed in one column vertically. The image should be positioned below text it is associated with.

Performance

Web performance is hard but we can help! Show us your site and we'll apply the same tools we use to build our advanced applications. Our team has years of experiencing helping properties around the world identify and remediate performance pitfalls across browsers, so your customers have a better experience on every device. We'll provide actionable recommendations for your site, and opportunities to follow up with a deeper conversation with our developers.

Security

New security tools are here! Learn the new specification and how to apply them to make your web apps hack proof. Come try out live attack lab and see how your site holds up.

Hints:

How to resize images as page size changes:

https://www.w3schools.com/css/css_rwd_images.asp

Prevent text from wrapping (such as contents of table cells)

https://www.w3schools.com/cssref/pr_text_white-space.asp

Control whether an element will be displayed:

https://www.w3schools.com/cssref/pr_class_display.asp

To set up handlers for changing menu display when an item is clicked, use a selector function that finds all of the links ("a" elements) in the menu. This function will return an array with all of the matching elements. Then use a loop to assign onclick handlers to each of them.