Software Development

Foundations
Lesson 5
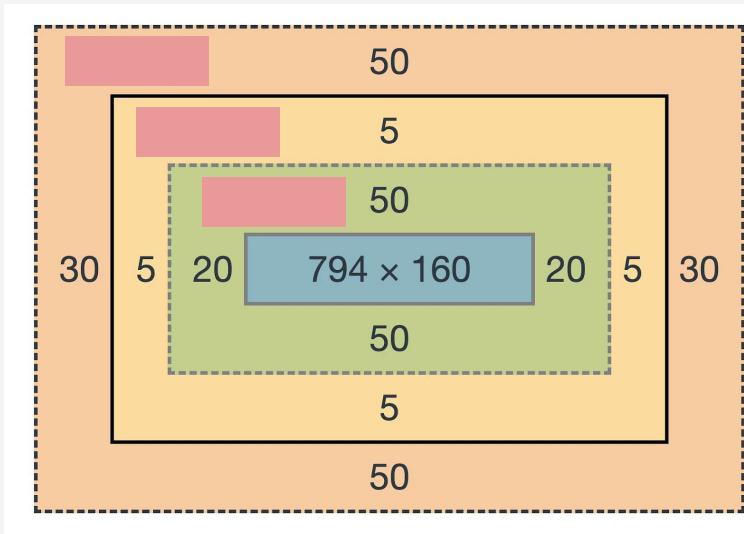
Agenda

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01.	Box model recap
02.	CSS layouts
03.	Flexbox
04.	Grid
05.	Floats
06.	Positioning

Learning objectives

Create a responsive website layout using CSS

Box model recap

Responsive CSS
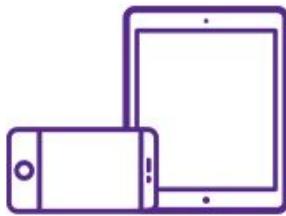
- Conditionally apply styles with **@media**
  - **min-width** = mobile first
  - **max-width** = desktop first
- We can use **vw** and **vh** to size as a %age of the viewport width or height
- For images set **max-width** to 100% and **height** to auto
- Also need to add a viewport meta tag to the HTML

Breakpoints

0-480
Smaller smartphones

481-768
Tablets & larger smartphones

769-1279
Laptops, larger tablets in landscape, and small desktops

1280+
Larger desktops and monitors

CSS layouts

- Flexbox
- Grid
- Floats
- Positioning
  - Static
  - Relative
  - Fixed
  - Absolute
  - Sticky

Break

Exercise

- Spend 10 minutes completing Flexbox Froggy - https://flexboxfroggy.com/
- Spend 20 mins on adding the layout to the menu exercise
  - Flex/Grid and/or
  - Positioning and/or
  - Floats

Agenda

01. ~~Box model recap~~

02. ~~CSS layouts~~

03. ~~Flexbox~~

04. ~~Grid~~

05. Floats

06. Positioning

For next class

1. Convert your personal website to be responsive
2. Use flex or grid for layout
3. Use position fixed or sticky for a header