CSS

Lab 2

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# CSS Box Model

<https://www.tutorialrepublic.com/css-tutorial/css-box-model.php>

<https://www.tutorialrepublic.com/css-tutorial/css-visual-formatting.php>

<https://www.w3schools.com/css/css_boxmodel.asp>

### dimensions (width, height)

width, height, max-width, min-width, max-height, min-height

<https://www.tutorialrepublic.com/css-tutorial/css-dimension.php>

<https://www.w3schools.com/css/css_dimension.asp>

### padding

padding-top, padding-right, padding-bottom, padding-left, padding

<https://www.tutorialrepublic.com/css-tutorial/css-padding.php>

<https://www.w3schools.com/css/css_padding.asp>

### border

border-style, border-width, border-color, border

<https://www.tutorialrepublic.com/css-tutorial/css-border.php>

<https://www.w3schools.com/css/css_border.asp>

To specify border-style, border-width, border-color for individual sides

<https://www.w3schools.com/css/css_border_sides.asp>

NOTE: None of the other CSS border properties will have ANY effect unless the border-style property is set

### border-radius

<https://www.w3schools.com/css/css_border_rounded.asp>

<https://www.w3schools.com/css/css3_borders.asp>

For checking effects:

<https://border-radius.com/>

### border-image

<https://www.w3schools.com/css/css3_border_images.asp>

### box-sizing

<https://www.freecodecamp.org/news/how-to-use-the-css-box-sizing-property/>

<https://www.w3schools.com/css/css3_box-sizing.asp>

### margin

margin-top, margin-right, margin-bottom, margin-left, margin

<https://www.tutorialrepublic.com/css-tutorial/css-margin.php>

auto property calculates the margin to center an element horizontally within a parent container

<https://www.w3schools.com/css/css_margin.asp>

### negative margins

<https://www.quirksmode.org/blog/archives/2020/02/negative_margin.html>

Common use:

<https://css-tricks.com/negative-margins/>

For a <div>, the padding is from the border of the div into the child elements within the <div>

### collapsing margins

<https://www.freecodecamp.org/news/what-is-margin-collapse-and-how-to-avoid-it/>

<https://css-tricks.com/what-you-should-know-about-collapsing-margins/>

# CSS Layouts

<https://developer.mozilla.org/en-US/docs/Learn/CSS/CSS_layout/Introduction>

## display

<https://www.freecodecamp.org/news/the-css-display-property-display-none-display-table-inline-block-and-more/>

<https://www.tutorialrepublic.com/css-tutorial/css-display.php>

<https://www.w3schools.com/css/css_display_visibility.asp>

## position

<https://www.tutorialrepublic.com/css-tutorial/css-position.php>

Relative positioning involves using top, bottom, left and/or right

<https://css-tricks.com/almanac/properties/p/position/>

<https://www.w3schools.com/css/css_positioning.asp>

<https://ishadeed.com/article/learn-css-positioning>

Keep in mind that in this example here, only the value 0 can be specified without a unit, if you decide to change it in codepen when you are playing around, you need to specify a clear value

Difference between absolute and relative

<https://www.freecodecamp.org/news/css-positioning-position-absolute-and-relative/>

### Layering with z-index

<https://www.tutorialrepublic.com/css-reference/css-z-index-property.php>

<https://www.tutorialrepublic.com/css-tutorial/css-layers.php>

<https://www.w3schools.com/css/css_z-index.asp>

## float

<https://www.tutorialrepublic.com/css-tutorial/css-float.php>

<https://www.w3schools.com/css/css_float.asp>

<https://www.w3schools.com/css/css_float_clear.asp>

Demonstrate overflow:auto and .clearfix::after

<https://www.w3schools.com/css/css_float_examples.asp>

<https://blog.hubspot.com/website/css-float>

<https://css-tricks.com/all-about-floats/>

## Alignment techniques

<https://www.tutorialrepublic.com/css-tutorial/css-alignment.php>

## Flexbox

<https://css-tricks.com/snippets/css/a-guide-to-flexbox/>

<https://demo.agektmr.com/flexbox/>

<https://web.dev/learn/css/flexbox/>

<https://www.w3schools.com/css/css3_flexbox.asp>

<https://www.quackit.com/css/flexbox/tutorial/flexbox_introduction.cfm>

## Grid

<https://css-tricks.com/snippets/css/complete-guide-grid/>

<https://gridbyexample.com/examples/>

<https://learncssgrid.com/#grid-gaps>

<https://www.w3schools.com/css/css_grid.asp>

# Responsive web design (RWD)

## Viewport

<https://www.w3schools.com/css/css_rwd_viewport.asp>

<https://developer.mozilla.org/en-US/docs/Web/CSS/Viewport_concepts#what_is_a_viewport>

Concept of visual viewport vs layout viewport

<https://developer.mozilla.org/en-US/docs/Web/CSS/Viewport_concepts#viewport_sizes_are_mutable>

<https://developers.google.com/web/updates/2015/01/What-the-Viewport>

## General principles

<https://www.w3schools.com/html/html_responsive.asp>

<https://www.w3schools.com/css/css_rwd_intro.asp>

## Media Queries

<https://www.w3schools.com/css/css_rwd_mediaqueries.asp>

<https://www.w3schools.com/css/css3_mediaqueries_ex.asp>

<https://css-tricks.com/a-complete-guide-to-css-media-queries/>

# Working with Chrome Developer Tools

<https://developer.chrome.com/docs/devtools/css/grid/>

<https://developer.chrome.com/docs/devtools/css/flexbox/>