

Table of Contents

| | |
|--|-----------|
| 1. Crash Course in CSS..... | 1 |
| Benefits of Cascading Style Sheets..... | 1 |
| CSS Rules..... | 2 |
| CSS Comments..... | 2 |
| Selectors..... | 3 |
| Type Selectors..... | 3 |
| Class Selectors..... | 3 |
| ID Selectors..... | 4 |
| Attribute Selectors..... | 5 |
| The Universal Selector..... | 5 |
| Grouping..... | 6 |
| Combinators..... | 6 |
| Descendant Combinators..... | 6 |
| Child Combinators..... | 6 |
| General Sibling Combinators..... | 7 |
| Adjacent Sibling Combinators..... | 7 |
| Precedence of Selectors..... | 8 |
| How Browsers Style Pages..... | 8 |
| CSS Resets..... | 11 |
| CSS Normalizers..... | 13 |
| External Stylesheets, Embedded Stylesheets, and Inline Styles..... | 14 |
| External Stylesheets..... | 14 |
| Embedded Stylesheets..... | 15 |
| Inline Styles..... | 16 |
| <i>Exercise 1: Creating an External Stylesheet.....</i> | <i>18</i> |
| <i>Exercise 2: Creating an Embedded Stylesheet.....</i> | <i>25</i> |
| <i>Exercise 3: Adding Inline Styles.....</i> | <i>28</i> |
| <div> and | 30 |
| <i>Exercise 4: Divs and Spans.....</i> | <i>33</i> |
| Media Types..... | 35 |
| Units of Measurement..... | 36 |
| Absolute vs. Relative Units..... | 36 |
| Pixels..... | 36 |
| Ems and Rems..... | 36 |
| Percentages..... | 38 |
| Other Units..... | 38 |
| Inheritance..... | 41 |
| The inherit Value..... | 43 |

Table of Contents

| | |
|---|-----------|
| 2. CSS Fonts | 47 |
| font-family..... | 47 |
| Specifying by Font Name..... | 47 |
| Specifying Font by Category..... | 47 |
| @font-face..... | 51 |
| Getting Fonts..... | 53 |
| font-size..... | 58 |
| Relative font-size Terms..... | 58 |
| Best Practices..... | 62 |
| font-style..... | 63 |
| font-variant..... | 63 |
| font-weight..... | 64 |
| line-height..... | 67 |
| font..... | 71 |
| <i>Exercise 5: Styling Fonts</i> | 76 |
| 3. Color and Opacity | 83 |
| About Color and Opacity..... | 83 |
| Color and Opacity Values..... | 83 |
| Color Keywords..... | 83 |
| RGB Hexadecimal Notation..... | 83 |
| RGB Functional Notation..... | 84 |
| HSL Functional Notation..... | 84 |
| color..... | 85 |
| opacity..... | 88 |
| <i>Exercise 6: Adding Color and Opacity to Text</i> | 92 |
| 4. CSS Text | 99 |
| letter-spacing..... | 99 |
| text-align..... | 100 |
| text-decoration..... | 103 |
| text-indent..... | 105 |
| text-shadow..... | 108 |
| text-transform..... | 110 |
| white-space..... | 112 |
| word-break..... | 115 |
| word-spacing..... | 117 |
| <i>Exercise 7: Text Properties</i> | 120 |

| | |
|---|------------|
| 5. Borders, Margins, and Padding..... | 127 |
| The CSS Basic Box Model..... | 127 |
| Introduction to using Google Chrome DevTools with CSS..... | 127 |
| Padding..... | 131 |
| Margin..... | 135 |
| Border..... | 138 |
| border-width..... | 142 |
| border-style..... | 147 |
| border-color..... | 150 |
| border-radius..... | 154 |
| box-sizing..... | 158 |
| box-shadow..... | 162 |
| <i>Exercise 8: Borders, Margin, and Padding.....</i> | <i>166</i> |
| 6. Backgrounds..... | 173 |
| background-color..... | 173 |
| background-image..... | 176 |
| background-repeat..... | 178 |
| overflow..... | 182 |
| background-attachment..... | 186 |
| background-position..... | 192 |
| Keywords..... | 193 |
| Coordinates..... | 195 |
| Creating a "hint" Class..... | 197 |
| background-size..... | 200 |
| background-origin..... | 202 |
| background-clip..... | 205 |
| Modifying the "hint" Class..... | 208 |
| background..... | 211 |
| <i>Exercise 9: Backgrounds.....</i> | <i>216</i> |
| 7. Display and Visibility..... | 225 |
| display..... | 225 |
| visibility..... | 227 |
| 8. Pseudo-classes and Pseudo-elements..... | 233 |
| Pseudo-classes..... | 233 |
| Styling Links with Pseudo-classes..... | 235 |
| Styling Tables and Articles with Pseudo-classes..... | 242 |
| :nth-child()..... | 242 |
| Pseudo-elements..... | 252 |
| content..... | 252 |
| Using Pseudo-elements..... | 253 |
| <i>Exercise 10: Pseudo-classes and Pseudo-elements.....</i> | <i>260</i> |

| | |
|---|------------|
| 9. Styling Tables with CSS..... | 267 |
| A Review of HTML table Elements and Attributes..... | 267 |
| Spanning Columns and Rows..... | 267 |
| CSS Properties and Styling Tables..... | 271 |
| table-layout..... | 271 |
| border-collapse..... | 272 |
| <i>Exercise 11: Styling a Table Exercise.....</i> | <i>282</i> |
| 10. Positioning..... | 289 |
| Normal Flow..... | 289 |
| position..... | 292 |
| Positioning with top, bottom, left, and right..... | 293 |
| z-index..... | 297 |
| float and clear..... | 302 |
| float..... | 302 |
| clear..... | 304 |
| float, clear, and ::after..... | 306 |
| <i>Exercise 12: Positioning.....</i> | <i>313</i> |
| 11. Transforms and Transitions..... | 325 |
| transition..... | 325 |
| transition-property..... | 325 |
| transition-duration..... | 325 |
| transition-timing-function..... | 325 |
| transition-delay..... | 326 |
| transition..... | 326 |
| transform..... | 331 |
| Rotation..... | 331 |
| Scale..... | 333 |
| Skew..... | 335 |
| Translate..... | 337 |
| <i>Exercise 13: Transforms and Transitions.....</i> | <i>346</i> |
| 12. Layouts..... | 355 |
| Introduction to Flexible Box Layout Module..... | 355 |
| Some Flexbox Properties..... | 355 |
| Introduction to Grid Layout..... | 363 |
| Some Grid Properties..... | 363 |
| Multi-column Layout..... | 377 |
| <i>Exercise 14: Layouts.....</i> | <i>384</i> |
| 13. CSS Lists as Hierarchical Navigation..... | 391 |
| <i>Exercise 16: Basic Vertical Navigation Bars.....</i> | <i>400</i> |
| Dynamic Drop-down and Fly-out Navigation Bars..... | 406 |
| <i>Exercise 17: Basic Drop-down Menu.....</i> | <i>407</i> |
| <i>Exercise 18: Basic Fly-out Menu.....</i> | <i>414</i> |
| <i>Exercise 19: CSS List Menus.....</i> | <i>422</i> |

14. Media Queries.....427

- What Are Media Queries?.....427
 - Breakpoints.....427
 - Media Types.....427
 - Syntax.....427
- Font Awesome.....428
 - Finding and Using Icons.....429
- Exercise 20: Breakpoints.....433*
- Exercise 21: Targeting Print.....445*