## **Notes and Assignments**

## **Notes**

- History of Javascript<sup>1</sup>
- Components of a Web Page<sup>2</sup>
- How to run Javascript<sup>3</sup>
- Numbers in Javascript<sup>4</sup>
- Local and Global Variables<sup>5</sup>
- Basics of Arrays<sup>6</sup>
- Basics of Objects<sup>7</sup>
- Strings and Regular Expressions<sup>8</sup>
- Function basics<sup>9</sup>
- Basics of Version Control<sup>10</sup>
- Git basics<sup>11</sup>
- Review of Git commands 12
- GitHub basics<sup>13</sup>
- Remotes and Branches<sup>14</sup>
- GitHub Workflow<sup>15</sup>
- Overall Project Workflow<sup>16</sup>
- Functions as values<sup>17</sup>
- Functions as closures<sup>18</sup>
- Functions as a means for creating a scope/context<sup>19</sup>
- Array Collection methods<sup>20</sup>
- Function Usage Patterns<sup>21</sup>
- Methods in objects and the need for this<sup>22</sup>

<sup>&</sup>lt;sup>1</sup>notes/history.html

<sup>&</sup>lt;sup>2</sup>notes/page\_components.html

<sup>&</sup>lt;sup>3</sup>notes/how\_to\_run.html

<sup>&</sup>lt;sup>4</sup>notes/numbers.html

<sup>&</sup>lt;sup>5</sup>notes/local\_vs\_global.html

<sup>&</sup>lt;sup>6</sup>notes/array basics.html

<sup>&</sup>lt;sup>7</sup>notes/object basics.html

<sup>&</sup>lt;sup>8</sup>notes/strings\_and\_re.html

<sup>&</sup>lt;sup>9</sup>notes/functions basic.html

<sup>&</sup>lt;sup>10</sup>notes/git\_version\_control.html

<sup>&</sup>lt;sup>11</sup>notes/git\_basics.html

<sup>&</sup>lt;sup>12</sup>notes/git\_commands\_review.html

<sup>&</sup>lt;sup>13</sup>notes/github\_basics.html

<sup>&</sup>lt;sup>14</sup>notes/git\_remotes\_branches.html

<sup>&</sup>lt;sup>15</sup>notes/github\_workflow.html

<sup>&</sup>lt;sup>16</sup>notes/project\_workflow.html

<sup>&</sup>lt;sup>17</sup>notes/function values.html

<sup>18</sup> notes/function\_closures.html

<sup>&</sup>lt;sup>19</sup>notes/functions\_for\_scope.html

<sup>&</sup>lt;sup>20</sup>notes/array\_collection\_methods.html

<sup>&</sup>lt;sup>21</sup>notes/function\_usage\_patterns.html

<sup>&</sup>lt;sup>22</sup>notes/object\_methods.html

- Function call forms and the value of this <sup>23</sup>
- Object creation and prototypes<sup>24</sup>
- Different stack implementations<sup>25</sup>
- "Class" construction examples<sup>26</sup>
- Object properties<sup>27</sup>
- Survey of HTML<sup>28</sup>
- Survey of CSS<sup>29</sup>
- Introduction to the DOM (Document Object Model)<sup>30</sup>
- Introduction to jQuery<sup>31</sup>
- Introduction to DOM Events<sup>32</sup>
- Timers<sup>33</sup>
- Intro to Patterns: Iterator<sup>34</sup>
- Design Patterns<sup>35</sup>
- Patterns of code reuse<sup>36</sup>
- Pattern: Observer<sup>37</sup>
- Pattern: Command<sup>38</sup>
- Pattern: Proxy<sup>39</sup>
- Pattern: Visitor<sup>40</sup>
- Module Patterns: Node/CommonJS modules<sup>41</sup>
- Using require.js<sup>42</sup>
- UMD modules<sup>43</sup>
- Pattern: Composite<sup>44</sup>
- Patterns: Adapter and Facade<sup>45</sup>
- MVC: Model-View-Controller<sup>46</sup>
- Using Templates: Handlebars<sup>47</sup>

<sup>&</sup>lt;sup>23</sup>notes/function\_calls\_and\_this.html

<sup>&</sup>lt;sup>24</sup>notes/object\_creation\_prototypes.html

<sup>&</sup>lt;sup>25</sup>notes/stack\_various.html

<sup>&</sup>lt;sup>26</sup>notes/class\_construction.html

<sup>&</sup>lt;sup>27</sup>notes/object\_properties.html

<sup>&</sup>lt;sup>28</sup>notes/html\_survey.html

<sup>&</sup>lt;sup>29</sup>notes/css\_survey.html

<sup>&</sup>lt;sup>30</sup>notes/dom intro.html

<sup>&</sup>lt;sup>31</sup>notes/jquery\_intro.html

<sup>&</sup>lt;sup>32</sup>notes/events\_intro.html

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<sup>34</sup> notes/patterns\_iterator.html

<sup>35</sup> notes/design\_patterns.html

<sup>&</sup>lt;sup>36</sup>notes/code\_reuse.html

<sup>&</sup>lt;sup>37</sup>notes/patterns\_observer.html

<sup>&</sup>lt;sup>38</sup>notes/patterns\_command.html

<sup>&</sup>lt;sup>39</sup>notes/patterns\_proxy.html

<sup>&</sup>lt;sup>40</sup>notes/patterns visitor.html

<sup>&</sup>lt;sup>41</sup>notes/pattern modules.html

<sup>&</sup>lt;sup>42</sup>notes/requirejs.html

<sup>&</sup>lt;sup>43</sup>notes/umd.html

<sup>&</sup>lt;sup>44</sup>notes/patterns\_composite.html

<sup>45</sup> notes/patterns\_adapter\_facade.html

<sup>46</sup> notes/pattern\_mvc.html

<sup>&</sup>lt;sup>47</sup>notes/templates.html

- Example of Designing a Model<sup>48</sup>
- Basics of HTTP<sup>49</sup>
- $\bullet$  Introduction to XMLHttpRequest  $^{50}$
- What we left out<sup>51</sup>

## **Assignments and Labs**

- Assignment 1<sup>52</sup>
- Assignment 2<sup>53</sup>
- Assignment 3<sup>54</sup>
- Lab 1: Getting used to the basics<sup>55</sup>
- Assignment 4<sup>56</sup>
- Assignment 5<sup>57</sup>
- Lab 2: Writing Tests<sup>58</sup>
- Assignment 6<sup>59</sup>
- Lab 3: Linting, Tasks<sup>60</sup>
- Assignment  $7^{61}$
- Lab 4: Controllers, jQuery<sup>62</sup>
- Lab 5: Collections<sup>63</sup>
- Lab 6: Double-Linked Lists, History<sup>64</sup>
- Project progress<sup>65</sup>

<sup>&</sup>lt;sup>48</sup>notes/design\_example.html

<sup>&</sup>lt;sup>49</sup>notes/http\_intro.html

<sup>&</sup>lt;sup>50</sup>notes/xhr\_intro.html

<sup>51</sup> notes/left\_out.html

<sup>&</sup>lt;sup>52</sup>assignments/1.html

<sup>&</sup>lt;sup>53</sup>assignments/2.html

<sup>&</sup>lt;sup>54</sup>assignments/3.html

<sup>&</sup>lt;sup>55</sup>labs/1.html

<sup>&</sup>lt;sup>56</sup>assignments/4.html

<sup>&</sup>lt;sup>57</sup>assignments/5.html

<sup>&</sup>lt;sup>58</sup>labs/2.html

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<sup>&</sup>lt;sup>62</sup>labs/4.html

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<sup>&</sup>lt;sup>64</sup>labs/6.html

<sup>&</sup>lt;sup>65</sup>notes/project\_steps.html