Notes and Assignments

Notes

- History of Javascript¹
- Components of a Web Page²
- How to run Javascript³
- Numbers in Javascript⁴
- Local and Global Variables⁵
- Basics of Arrays⁶
- Basics of Objects⁷
- Strings and Regular Expressions⁸
- Function basics⁹
- Basics of Version Control¹⁰
- Git basics¹¹
- Review of Git commands¹²
- GitHub basics¹³
- Remotes and Branches¹⁴
- GitHub Workflow¹⁵
- Overall Project Workflow¹⁶
- Functions as values¹⁷
- Functions as closures 18
- Functions as a means for creating a scope/context 19
- Array Collection methods²⁰
- Function Usage Patterns²¹
- Methods in objects and the need for this²²

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²notes/page_components.html

³notes/how_to_run.html

⁴notes/numbers.html

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⁶notes/array_basics.html

⁷notes/object basics.html

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⁹notes/functions basic.html

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- Function call forms and the value of this ²³
- Object creation and prototypes²⁴
- Different stack implementations²⁵
- "Class" construction examples²⁶
- Object properties²⁷
- Survey of HTML²⁸
- Survey of CSS²⁹
- Introduction to the DOM (Document Object Model)³⁰
- Introduction to ¡Query³¹
- Introduction to DOM Events³²
- Timers³³
- Intro to Patterns: Iterator³⁴
- Design Patterns³⁵
- Patterns of code reuse³⁶
- Pattern: Observer³⁷
- Pattern: Command³⁸
- Pattern: Proxy³⁹
- Pattern: Visitor⁴⁰
- Module Patterns: Node/CommonJS modules⁴¹
- Using require.js⁴²
- UMD modules⁴³
- Pattern: Composite⁴⁴
- Patterns: Adapter and Facade⁴⁵
- MVC: Model-View-Controller⁴⁶

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³⁹notes/patterns_proxy.html

⁴⁰notes/patterns visitor.html

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⁴²notes/requirejs.html

⁴³notes/umd.html

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⁴⁵notes/patterns_adapter_facade.html

⁴⁶notes/pattern mvc.html

- Using Templates: Handlebars⁴⁷
- Example of Designing a Model⁴⁸
- Basics of HTTP⁴⁹
- \bullet Introduction to XMLHttpRequest 50
- What we left out⁵¹

Assignments and Labs

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- Assignment 2⁵³
- Assignment 3⁵⁴
- Lab 1: Getting used to the basics⁵⁵
- Assignment 4⁵⁶
- Assignment 5⁵⁷
- Lab 2: Writing Tests⁵⁸
- Assignment 6⁵⁹
- Lab 3: Linting, Tasks⁶⁰
- Assignment 7⁶¹
- Lab 4: Controllers, jQuery⁶²
- Lab 5: Collections⁶³
- Lab 6: Double-Linked Lists, History⁶⁴
- Project progress⁶⁵

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⁵⁰notes/xhr intro.html

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⁵³assignments/2.html

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⁶⁵notes/project_steps.html