

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 closures¹⁸
- Functions as a means for creating a scope/context¹⁹
- Array Collection methods²⁰
- Function Usage Patterns²¹
- Methods in objects and the need for this²²

¹<notes/history.html>

²notes/page_components.html

³notes/how_to_run.html

⁴<notes/numbers.html>

⁵notes/local_vs_global.html

⁶notes/array_basics.html

⁷notes/object_basics.html

⁸notes/strings_and_re.html

⁹notes/functions_basic.html

¹⁰notes/git_version_control.html

¹¹notes/git_basics.html

¹²notes/git_commands_review.html

¹³notes/github_basics.html

¹⁴notes/git_remotes_branches.html

¹⁵notes/github_workflow.html

¹⁶notes/project_workflow.html

¹⁷notes/function_values.html

¹⁸notes/function_closures.html

¹⁹notes/functions_for_scope.html

²⁰notes/array_collection_methods.html

²¹notes/function_usage_patterns.html

²²notes/object_methods.html

- Function call forms and the value of this²³
- 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 jQuery³¹
- 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
- Using Templates: Handlebars⁴⁷

²³[notes/function_calls_and_this.html](#)

²⁴[notes/object_creation_prototypes.html](#)

²⁵[notes/stack_various.html](#)

²⁶[notes/class_construction.html](#)

²⁷[notes/object_properties.html](#)

²⁸[notes/html_survey.html](#)

²⁹[notes/css_survey.html](#)

³⁰[notes/dom_intro.html](#)

³¹[notes/jquery_intro.html](#)

³²[notes/events_intro.html](#)

³³[notes/events_timers.html](#)

³⁴[notes/patterns_iterator.html](#)

³⁵[notes/design_patterns.html](#)

³⁶[notes/code_reuse.html](#)

³⁷[notes/patterns_observer.html](#)

³⁸[notes/patterns_command.html](#)

³⁹[notes/patterns_proxy.html](#)

⁴⁰[notes/patterns_visitor.html](#)

⁴¹[notes/pattern_modules.html](#)

⁴²[notes/requirejs.html](#)

⁴³[notes/umd.html](#)

⁴⁴[notes/patterns_composite.html](#)

⁴⁵[notes/patterns_adapter_facade.html](#)

⁴⁶[notes/pattern_mvc.html](#)

⁴⁷[notes/templates.html](#)

- Example of Designing a Model⁴⁸
- Basics of HTTP⁴⁹
- Introduction to XMLHttpRequest⁵⁰
- What we left out⁵¹

Assignments and Labs

- Assignment 1⁵²
- 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

⁴⁸[notes/design_example.html](#)

⁴⁹[notes/http_intro.html](#)

⁵⁰[notes/xhr_intro.html](#)

⁵¹[notes/left_out.html](#)

⁵²[assignments/1.html](#)

⁵³[assignments/2.html](#)

⁵⁴[assignments/3.html](#)

⁵⁵[labs/1.html](#)

⁵⁶[assignments/4.html](#)

⁵⁷[assignments/5.html](#)

⁵⁸[labs/2.html](#)

⁵⁹[assignments/6.html](#)

⁶⁰[labs/3.html](#)

⁶¹[assignments/7.html](#)

⁶²[labs/4.html](#)

⁶³[labs/5.html](#)

⁶⁴[labs/6.html](#)

⁶⁵[notes/project_steps.html](#)