

Schedule

A week-by-week breakdown of the material.

Week 1 (01/05-01/09)

- Day 1
 - History of Javascript¹
 - Components of a Web Page²
 - How to run Javascript³
 - Numbers in Javascript⁴
 - Assignment 1⁵
- Day 2
 - Local and Global Variables⁶
 - Basics of Arrays⁷
 - Assignment 2⁸
- Day 3
 - Basics of Objects⁹
 - Strings and Regular Expressions¹⁰
- Day 4
 - Function basics¹¹
 - Assignment 3¹²
 - Basics of Version Control¹³
 - Git basics¹⁴
 - Review of Git commands¹⁵

¹<notes/history.html>

²notes/page_components.html

³notes/how_to_run.html

⁴<notes/numbers.html>

⁵<assignments/1.html>

⁶notes/local_vs_global.html

⁷notes/array_basics.html

⁸<assignments/2.html>

⁹notes/object_basics.html

¹⁰notes/strings_and_re.html

¹¹notes/functions_basic.html

¹²<assignments/3.html>

¹³notes/git_version_control.html

¹⁴notes/git_basics.html

¹⁵notes/git_commands_review.html

Week 2 (01/12-01/16)

- Day 1
 - GitHub basics¹⁶
 - Remotes and Branches¹⁷
 - GitHub Workflow¹⁸
 - Overall Project Workflow¹⁹
 - Lab 1: Getting used to the basics²⁰
- Day 2
 - Functions as values²¹
 - Functions as closures²²
 - Assignment 4²³
- Day 3
 - Functions as a means for creating a scope/context²⁴
- Day 4
 - Array Collection methods²⁵
 - Function Usage Patterns²⁶
 - Assignment 5²⁷

Week 3 (01/19-01/23)

- Day 1
 - Lab 2: Writing Tests²⁸
- Day 2
 - Methods in objects and the need for this²⁹
 - Function call forms and the value of this³⁰

¹⁶[notes/github_basics.html](#)

¹⁷[notes/git_remotes_branches.html](#)

¹⁸[notes/github_workflow.html](#)

¹⁹[notes/project_workflow.html](#)

²⁰[labs/1.html](#)

²¹[notes/function_values.html](#)

²²[notes/function_closures.html](#)

²³[assignments/4.html](#)

²⁴[notes/functions_for_scope.html](#)

²⁵[notes/array_collection_methods.html](#)

²⁶[notes/function_usage_patterns.html](#)

²⁷[assignments/5.html](#)

²⁸[labs/2.html](#)

²⁹[notes/object_methods.html](#)

³⁰[notes/function_calls_and_this.html](#)

- Day 3
 - Object creation and prototypes³¹
 - Different stack implementations³²
 - Assignment 6³³
- Day 4
 - “Class” construction examples³⁴
 - Object properties³⁵

Week 4 (01/26-01/30)

- Day 1
 - Lab 3: Linting, Tasks³⁶
- Day 2
 - Survey of HTML³⁷
- Day 3
 - Survey of CSS³⁸
- Day 4
 - Introduction to the DOM (Document Object Model)³⁹
 - Introduction to jQuery⁴⁰
 - Assignment 7⁴¹

Week 5 (02/02-02/06)

- Day 1
 - Introduction to DOM Events⁴²
 - Lab 4: Controllers, jQuery⁴³
- Day 2

³¹[notes/object_creation_prototypes.html](#)

³²[notes/stack_various.html](#)

³³[assignments/6.html](#)

³⁴[notes/class_construction.html](#)

³⁵[notes/object_properties.html](#)

³⁶[labs/3.html](#)

³⁷[notes/html_survey.html](#)

³⁸[notes/css_survey.html](#)

³⁹[notes/dom_intro.html](#)

⁴⁰[notes/jquery_intro.html](#)

⁴¹[assignments/7.html](#)

⁴²[notes/events_intro.html](#)

⁴³[labs/4.html](#)

- Timers⁴⁴
- Day 3
 - Intro to Patterns: Iterator⁴⁵
- Day 4
 - Intro to Patterns: Iterator (cont)⁴⁶

Week 6 (02/09-02/13)

- Day 1
 - Lab 5: Collections⁴⁷
- Day 2
 - Design Patterns⁴⁸
- Day 3
 - Patterns of code reuse⁴⁹
- Day 4

Week 7 (02/16-02/20)

- Day 1
- Day 2
- Day 3
- Day 4
 - EVERYTHING BELOW IS WORK IN PROGRESS
 - Assignment 8⁵⁰
 - Assignment 9⁵¹
 - Assignment 10⁵²
 - A custom Event module⁵³
 - Creation Patterns: Constructor⁵⁴

⁴⁴[notes/events_timers.html](#)

⁴⁵[notes/patterns_iterator.html](#)

⁴⁶[notes/patterns_iterator.html](#)

⁴⁷[labs/5.html](#)

⁴⁸[notes/design_patterns.html](#)

⁴⁹[notes/code_reuse.html](#)

⁵⁰[assignments/8.html](#)

⁵¹[assignments/9.html](#)

⁵²[assignments/10.html](#)

⁵³[notes/event_custom.html](#)

⁵⁴[notes/pattern_constructor.html](#)

- Creation Patterns: Singleton⁵⁵
- Creation Patterns: Mixins⁵⁶
- Data Structures in Javascript⁵⁷
- Behavioral Patterns: Observer⁵⁸
- Behavioral Patterns: Publish/Subscribe⁵⁹
- Implementation of Publish/Subscribe⁶⁰
- Behavioral Patterns: Mediator⁶¹
- Assignment 11⁶²
- Lab 5: Continued work on TODOapp⁶³
- Architectural Patterns: Model-View-Controller⁶⁴
- Implementing a basic MVC⁶⁵
- Introduction to Backbone⁶⁶
- Assignment 12⁶⁷
- Lab 6: Incorporating MVC in TODOapp⁶⁸
- Introduction to XMLHttpRequest⁶⁹
- Ajax via jQuery⁷⁰
- Lab 7: Introducing data persistence in TODOapp⁷¹

Week 8 (02/23-02/27)

BREAK

Week 9 (03/02-03/06)

- Day 1
 - Testing with Stubs, Mocks and Spies⁷²
- Day 2

⁵⁵[notes/pattern_singleton.html](#)
⁵⁶[notes/pattern_mixin.html](#)
⁵⁷[notes/data_structures.html](#)
⁵⁸[notes/pattern_observer.html](#)
⁵⁹[notes/pattern_pubsub.html](#)
⁶⁰[notes/pubsub_implementation.html](#)
⁶¹[notes/pattern_mediator.html](#)
⁶²[assignments/11.html](#)
⁶³[labs/5.html](#)
⁶⁴[notes/pattern_mvc.html](#)
⁶⁵[notes/mvc_implement.html](#)
⁶⁶[notes/backbone.html](#)
⁶⁷[assignments/12.html](#)
⁶⁸[labs/6.html](#)
⁶⁹[notes/xhr_intro.html](#)
⁷⁰[notes/xhr_jquery.html](#)
⁷¹[labs/7.html](#)
⁷²[notes/test_stubs.html](#)

- Module Patterns: Node modules⁷³
- Day 3
 - Module Patterns: AMD modules⁷⁴
- Day 4
 - Project proposals

Week 10 (03/09-03/13)

- Day 1
 - Project structure⁷⁵
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Day 2

- Day 3
 - Survey of CSS features⁷⁶
- Day 4
 - Lab 8:⁷⁷

Week 11 (03/16-03/20)

- Day 1
 - Using Templates: Handlebars⁷⁸
- Day 2
 - Deeper look into Javascript objects⁷⁹
- Day 3
 - Structural Patterns: Facade⁸⁰

⁷³[notes/pattern_module.html](#)

⁷⁴[notes/pattern_amd.html](#)

⁷⁵[notes/project.html](#)

⁷⁶[notes/css_survey.html](#)

⁷⁷[labs/8.html](#)

⁷⁸[notes/templates.html](#)

⁷⁹[notes/object_deeper.html](#)

⁸⁰[notes/pattern_facade.html](#)

- Structural Patterns: Proxy⁸¹
- Day 4
 - Work on project

Week 12 (03/23-03/27)

- Day 1
 - Introduction to Promises⁸²
- Day 2
 - More advanced testing
- Day 3
 - More advanced testing
- Day 4
 - First project submission

Week 13 (03/30-04/03)

- Day 1
- Day 2
- Day 3
- Day 4

Week 14 (04/06-04/10)

- Day 1
- Day 2
- Day 3
- Day 4

⁸¹[notes/pattern_proxy.html](#)

⁸²[notes/promises.html](#)