

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
 - Basics of Objects⁸
 - Assignment 2⁹
- Day 3
 - Strings and Regular Expressions¹⁰
 - Function basics¹¹
 - Assignment 3¹²
- Day 4
 - Basics of Version Control¹³
 - Git and GitHub basics¹⁴
 - Review of Git commands¹⁵
 - Lab 1: Fork, Pull, Commit, Push¹⁶

¹[notes/history.html](#)

²[notes/page_components.html](#)

³[notes/how_to_run.html](#)

⁴[notes/numbers.html](#)

⁵[../assignments/1.html](#)

⁶[notes/local_vs_global.html](#)

⁷[notes/array_basics.html](#)

⁸[notes/object_basics.html](#)

⁹[../assignments/2.html](#)

¹⁰[notes/strings_and_re.html](#)

¹¹[notes/functions_basic.html](#)

¹²[../assignments/3.html](#)

¹³[notes/git/version_control.html](#)

¹⁴[notes/git/git_github_basics.html](#)

¹⁵[notes/git/commands_review.html](#)

¹⁶[../labs/1.html](#)

Week 2 (01/12-01/16)

- Day 1
 - Functions as Closures¹⁷
 - Array Collection methods¹⁸
 - Assignment 4¹⁹
- Day 2
 - Functions as a means for creating a scope/context²⁰
 - Some tricks using functions²¹
 - Functions created in loops²²
 - Assignment 5²³
- Day 3
 - Methods in objects. Using `this`²⁴
 - Object creation forms. Prototypes²⁵
 - Assignment 6²⁶
- Day 4
 - Writing tests²⁷
 - Lab 2: Node, Testing²⁸

Week 3 (01/19-01/23)

- Day 1
 - Function call forms and the value of `this`²⁹
 - Introduction to the concept of Design Patterns³⁰
- Day 2
 - Creation Patterns: Constructor³¹

¹⁷[notes/function_closures.html](#)

¹⁸[notes/array_methods.html](#)

¹⁹[../assignments/4.html](#)

²⁰[notes/functions_for_scope.html](#)

²¹[notes/function_tricks.html](#)

²²[notes/functions_in_loops.html](#)

²³[../assignments/5.html](#)

²⁴[notes/object_methods.html](#)

²⁵[notes/object_creation_prototypes.html](#)

²⁶[../assignments/6.html](#)

²⁷[notes/test_writing.html](#)

²⁸[../labs/2.html](#)

²⁹[notes/function_calls_and_this.html](#)

³⁰[notes/design_patterns.html](#)

³¹[notes/pattern_constructor.html](#)

- Creation Patterns: Singleton³²
- Creation Patterns: Mixins³³
- Assignment 7³⁴
- Day 3
 - Introduction to the DOM (Document Object Model)³⁵
 - Manipulating the DOM tree³⁶
 - Assignment 8³⁷
- Day 4
 - Data Structures in Javascript³⁸
 - Lab 3: Union/Find, Sets³⁹

Week 4 (01/26-01/30)

- Day 1
 - Introduction to DOM Events⁴⁰
 - Bubbling of Events⁴¹
 - Assignment 9⁴²
- Day 2
 - Timers⁴³
 - Function idiom: Throttling⁴⁴
 - Assignment 10⁴⁵
- Day 3
 - A custom Event module⁴⁶
- Day 4
 - Lab 4: Starting on a TODOapp⁴⁷

³²[notes/pattern_singleton.html](#)

³³[notes/pattern_mixin.html](#)

³⁴[../assignments/7.html](#)

³⁵[notes/dom_intro.html](#)

³⁶[notes/dom_tree.html](#)

³⁷[../assignments/8.html](#)

³⁸[notes/data_structures.html](#)

³⁹[../labs/3.html](#)

⁴⁰[notes/event_intro.html](#)

⁴¹[notes/event_bubbling.html](#)

⁴²[../assignments/9.html](#)

⁴³[notes/event_timers.html](#)

⁴⁴[notes/function_throttling.html](#)

⁴⁵[../assignments/10.html](#)

⁴⁶[notes/event_custom.html](#)

⁴⁷[../labs/4.html](#)

Week 5 (02/02-02/06)

- Day 1
 - Behavioral Patterns: Observer⁴⁸
 - Behavioral Patterns: Publish/Subscribe⁴⁹
- Day 2
 - Implementation of Publish/Subscribe⁵⁰
 - Behavioral Patterns: Mediator⁵¹
 - Assignment 11⁵²
- Day 3
 - Introduction to jQuery⁵³
- Day 4
 - Lab 5: Continued work on TODOapp⁵⁴

Week 6 (02/09-02/13)

- Day 1
 - Architectural Patterns: Model-View-Controller⁵⁵
- Day 2
 - Implementing a basic MVC⁵⁶
- Day 3
 - Introduction to Backbone⁵⁷
 - Assignment 12⁵⁸
- Day 4
 - Lab 6: Incorporating MVC in TODOapp⁵⁹

⁴⁸[notes/pattern_observer.html](#)

⁴⁹[notes/pattern_pubsub.html](#)

⁵⁰[notes/pubsub_implementation.html](#)

⁵¹[notes/pattern_mediator.html](#)

⁵²[../assignments/11.html](#)

⁵³[notes/jquery_intro.html](#)

⁵⁴[../labs/5.html](#)

⁵⁵[notes/pattern_mvc.html](#)

⁵⁶[notes/mvc_implement.html](#)

⁵⁷[notes/backbone.html](#)

⁵⁸[../assignments/12.html](#)

⁵⁹[../labs/6.html](#)

Week 7 (02/16-02/20)

- Day 1
 - Introduction to XMLHttpRequest⁶⁰
- Day 2
 - Ajax via jQuery⁶¹
- Day 3
- Day 4
 - Lab 7: Introducing data persistence in TODOapp⁶²

Week 8 (02/23-02/27)

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Week 9 (03/02-03/06)

- Day 1
 - Testing with Stubs, Mocks and Spies⁶³
- Day 2
 - Module Patterns: Node modules⁶⁴
- Day 3
 - Module Patterns: AMD modules⁶⁵
- Day 4
 - Project proposals

Week 10 (03/09-03/13)

- Day 1
 - Project structure⁶⁶
- Day 2

⁶⁰[notes/xhr_intro.html](#)

⁶¹[notes/xhr_jquery.html](#)

⁶²[../labs/7.html](#)

⁶³[notes/test_stubs.html](#)

⁶⁴[notes/pattern_module.html](#)

⁶⁵[notes/pattern_amd.html](#)

⁶⁶[notes/project.html](#)

- Survey of HTML elements⁶⁷
- Day 3
 - Survey of CSS features⁶⁸
- Day 4
 - Lab 8:⁶⁹

Week 11 (03/16-03/20)

- Day 1
 - Using Templates: Handlebars⁷⁰
- Day 2
 - Deeper look into Javascript objects⁷¹
- Day 3
 - Structural Patterns: Facade⁷²
 - Structural Patterns: Proxy⁷³
- Day 4
 - Work on project

Week 12 (03/23-03/27)

- Day 1
 - Introduction to Promises⁷⁴
- Day 2
 - More advanced testing
- Day 3
 - More advanced testing
- Day 4
 - First project submission

⁶⁷[notes/html_survey.html](#)

⁶⁸[notes/css_survey.html](#)

⁶⁹[../labs/8.html](#)

⁷⁰[notes/templates.html](#)

⁷¹[notes/object_deeper.html](#)

⁷²[notes/pattern_facade.html](#)

⁷³[notes/pattern_proxy.html](#)

⁷⁴[notes/promises.html](#)

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