Schedule

A week-by-week breakdown of the material.

Week 1 (01/05-01/09)

- Day 1

    - History of Javascript[1]
    - Components of a Web Page[2]
    - How to run Javascript[3]
    - Numbers in Javascript[4]
    - Assignment 1[5]

- Day 2

    - Local and Global Variables[6]
    - Basics of Arrays[7]
    - Basics of Objects[8]
    - Assignment 2[9]

- Day 3

    - Strings and Regular Expressions[10]
    - Function basics[11]
    - Assignment 3[12]

- Day 4

    - Basics of Version Control[13]
    - Git and GitHub basics[14]
    - Review of Git commands[15]
    - Lab 1: Fork, Pull, Commit, Push[16]

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[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 Closures[17]
  - Array Collection methods[18]
  - Assignment 4[19]

- Day 2
  - Functions as a means for creating a scope/context[20]
  - Some tricks using functions[21]
  - Functions created in loops[22]
  - Assignment 5[23]

- Day 3
  - Methods in objects. Using this[24]
  - Object creation forms. Prototypes[25]
  - Assignment 6[26]

- Day 4
  - Writing tests[27]
  - Lab 2: Node, Testing[28]

Week 3 (01/19-01/23)

- Day 1
  - Function call forms and the value of this[29]
  - Introduction to the concept of Design Patterns[30]

- Day 2
  - Creation Patterns: Constructor[31]

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[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: Singleton[32]
- – Creation Patterns: Mixins[33]
- – Assignment 7[34]

- Day 3

  - – Introduction to the DOM (Document Object Model)[35]
  - – Manipulating the DOM tree[36]
  - – Assignment 8[37]

- Day 4

  - – Data Structures in Javascript[38]
  - – Lab 3: Union/Find, Sets[39]

Week 4 (01/26-01/30)

- Day 1

  - – Introduction to DOM Events[40]
  - – Bubbling of Events[41]
  - – Assignment 9[42]

- Day 2

  - – Timers[43]
  - – Function idiom: Throttling[44]
  - – Assignment 10[45]

- Day 3

  - – A custom Event module[46]

- Day 4

  - – Lab 4: Starting on a TODOapp[47]

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[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: Observer[48]
    - Behavioral Patterns: Publish/Subscribe[49]

- Day 2

    - Implementation of Publish/Subscribe[50]
    - Behavioral Patterns: Mediator[51]
    - Assignment 11[52]

- Day 3

    - Introduction to jQuery[53]

- Day 4

    - Lab 5: Continued work on TODOapp[54]

Week 6 (02/09-02/13)

- Day 1

    - Architectural Patterns: Model-View-Controller[55]

- Day 2

    - Implementing a basic MVC[56]

- Day 3

    - Introduction to Backbone[57]
    - Assignment 12[58]

- Day 4

    - Lab 6: Incorporating MVC in TODOapp[59]

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[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 XMLHttpRequest[60]
- Day 2
  - Ajax via jQuery[61]
- Day 3
- Day 4
  - Lab 7: Introducing data persistence in TODOapp[62]

Week 8 (02/23-02/27)

BREAK

Week 9 (03/02-03/06)

- Day 1
  - Testing with Stubs, Mocks and Spies[63]
- Day 2
  - Module Patterns: Node modules[64]
- Day 3
  - Module Patterns: AMD modules[65]
- Day 4
  - Project proposals

Week 10 (03/09-03/13)

- Day 1
  - Project structure[66]
- Day 2

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[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 elements[67]

- Day 3

  – Survey of CSS features[68]

- Day 4

  – Lab 8:[69]

Week 11 (03/16-03/20)

- Day 1

  – Using Templates: Handlebars[70]

- Day 2

  – Deeper look into Javascript objects[71]

- Day 3

  – Structural Patterns: Facade[72]
  – Structural Patterns: Proxy[73]

- Day 4

  – Work on project

Week 12 (03/23-03/27)

- Day 1

  – Introduction to Promises[74]

- Day 2

  – More advanced testing

- Day 3

  – More advanced testing

- Day 4

  – First project submission

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[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