

JavaScript Tooling

Duration: 2 Day(s)

Course Overview

JavaScript Tooling is a two day course for the web site admin/developer who wants to setup a development workflow for JavaScript based applications. The most popular cutting edge tools and processes are discussed. Students will work with Git, Grunt, LESS, Require.js , and more.

Review this course online at <https://www.alta3.com/courses/WD-519>

Objectives

- Understand the essentials of setting up a JavaScript development environment.
- Implement and manage task runners and build automation using Grunt and Gulp.
- Utilize CSS preprocessors and transpilers for optimized front-end development.
- Navigate and apply browser tools and editors to enhance development efficiency.

Who Should Attend

- Website developers
- JavaScript programmers
- Web administrators
- Front-end developers

Prerequisites

- HTML, CSS, or programming experience in any language
- JavaScript or jQuery experience

Course Outline

Web Tooling - Browsers

1. Browser market share
2. Browser compatibility
3. Chrome
4. Chrome Dev Tools
5. Firefox
6. Internet Explorer / Edge
7. Safari
8. Browser testing

Web Tooling - Editors

9. Editors – text
10. Editors – extensions – Emmet
11. Editors - extensions, linting

- 12. Editors – extensions, Live reload
- 13. Editors – IDEs
- 14. Editors - Online IDEs

Web Resources

- 15. Google web
- 16. Google SEO
- 17. Google mobile
- 18. Adobe

Transpilers

- 19. TypeScript
- 20. Other transpilers
- 21. Editor support

Package managers

- 22. About package managers
- 23. Chocolatey
- 24. npm
- 25. npmjs
- 26. package.json
- 27. Twitter Bower
- 28. Yeoman

CSS transpilers

- 29. CSS preprocessors
- 30. Ruby based
- 31. SASS
- 32. JavaScript based
- 33. LESS
- 34. PostCSS
- 35. Minification
- 36. Editor support
- 37. Twitter Recess

Deployment

- 38. Deployment terms
- 39. Continuous integration / delivery
- 40. Task runners / build automation
- 41. Grunt

42. Gulp

43. Uglify-JS

Software Configuration Management

44. About SCM

45. VCS vs DVCS

46. SCM in other languages

47. SemVer

48. Git

49. Git – terms

50. Git – workflow

51. Git - .gitignore

52. GitHub

53. Atlassian Bitbucket

54. Git clients

55. Git – resources

56. Tools, misc

Debugging

57. JSLint / JSHint

58. ESLint

59. Vorlon.js

60. Others

Script loading

61. Intro

62. Client/Server, script loading

63. Client/Server, script loading – CommonJS

64. Client/Server, script loading – Browserify

65. Client/Server, script loading – AMD vs CJS

66. Client/Server, script loading – ES6 package management

Resources

67. CDNs

68. Learning JavaScript

69. Reference