

Fend Free Courses


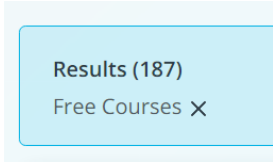
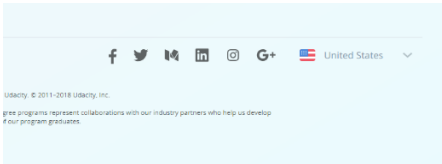
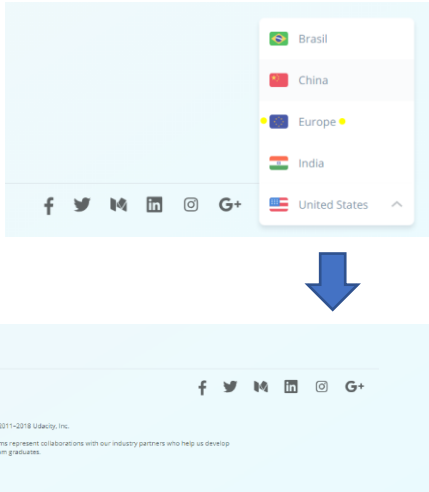
1. Web Foundations	2. Web Programming with JavaScript	3. Exploring JS - Objects, Tools and Testing	4. Front-End Applications	5. Building with React
1-Nanodegree Orientation 2-Career Services Available to You 3-Learning Online & Getting Help 4-HTML Syntax 5-HTML Syntax Problem Set 6-Exercise: Article to Mockup 7-CSS Syntax 8-CSS Syntax Problem Set 9-How to Write Code Faster 10-Project: Animal Trading Cards 11-Why Responsive? 12-Starting Small 13-Building Up 14-Common Responsive Patterns 15-Optimizations 16-Writing READMEs 17-Project: Build a Portfolio Site	1-What is JavaScript? 2-Data Types & Variables 3-Conditionals 4-Loops 5-Functions 6-Arrays 7-Objects 8-Syntax 9-Shell Workshop 10-What is Version Control? 11>Create A Git Repo 12-Review a Repo's History 13-Add Commits To A Repo 14-Tagging, Branching, and Merging 15-Undoing Changes 16-Working With Remotes 17-Working On Another Developer's Repository 18-Staying In Sync With A Remote Repository 19-The Document Object Model 20-Creating Content with JavaScript 21-Working with Browser Events 22-Exercise: Pixel Art Maker 23-Performance 24-Project: Memory Game	1-Accessibility Overview 2-Focus 3-Semantics Basics 4-Navigating Content 5-ARIA 6-Style 7-Objects in Depth 8-Functions at Runtime 9-Classes and Objects 10-Functions 11-Built-ins 12-Professional Developer-fu 13-Project: Classic Arcade Game Clone 14-Introducing Web Tooling and Automation 15-Productive Editing 16-Powerful Builds 17-Expressive Live Editing 18-How to Prevent Disasters 19-Awesome Optimizations 20-Web Tooling and Automation Conclusion 21-Rethinking Testing 22-Writing Test Suites 23-Project: Feed Reader Testing	1-Changing Expectations 2-Refactoring with Separation of Concerns 3-Creating Promises 4-Chaining Promises 5-Ajax with XHR 6-Ajax with jQuery 7-Ajax with Fetch 8-Features of Single Page Apps 9-Examine a Framework's Source 10-Angular 11-Ember 12-The Benefits of Offline First 13-Introducing the Service Worker 14-Project: Restaurant Reviews App—Stage 1	1-Why React? 2-Rendering UI with React 3-State Management 4-Render UI with External Data 5-Managing App Location with React Router 6-Project: MyReads: A Book Tracking App 7-Getting Started with the APIs 8-Understanding API Services 9-Using the APIs in Practice 10-Project: Neighborhood Map (React)

Black color: Available as free courses

Red color: Not available as free courses

Blue color: Exercises and Projects

Browsing all the available free courses:

	
	
	
<p>To be able to access all the available free courses that are part of the Fend, make sure that Udacity's home page is set to its default location which is United States. (At the bottom right of the home page, make sure that you see the United States flag). Otherwise, some free courses won't be available. (i.e. the Object-Oriented JavaScript course with Richard Kalehoff and Andrew Wong)</p>	<p>If at some time in the past you had changed the default location and set it to Europe, then the flag icon disappears and there is no option to change the location. This information though is only stored in cookies, so by switching to another browser the default location (United States) appears again. (Obviously you could alternatively delete the cookies, but you may lose access to the forum).</p>
	

Simplest and easiest solution: If you find that you cannot enroll in a certain free course, just use another browser. When you have successfully enrolled in that course, you may start using again your default browser.



School of Development

Intro To HTML And CSS

Skills Covered

HTML, CSS, CSS Syntax, HTML Syntax Problem Set

FREE

+ COURSE DETAILS

Beginner

Intro to HTML and CSS

Instructors: Cameron Pittman, James Parkes

<https://www.udacity.com/course/intro-to-html-and-css--ud001>

LESSON 1 - HTML Syntax

LESSON 2 - HTML Syntax Problem Set

LESSON 3 - CSS Syntax

LESSON 4 - CSS Syntax Problem Set

1.	2.	3.	4.	5.
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	
12	12	12	12	
13	13	13	13	
14	14	14	14	
15	15	15		
16	16	16		
17	17	17		
18	18	18		
19	19	19		
20	20	20		
21	21	21		
22	22	22		
23	23	23		
24	24			



School of Development

Responsive Web Design Fundamentals

FREE

Skills Covered

Responsive design patterns,
Remote debugging and emulation,

In Collaboration With

Google

[+ COURSE DETAILS](#)

Intermediate

Responsive Web Design Fundamentals

Instructors: Cameron Pittman, Pete LePage

<https://www.udacity.com/course/responsive-web-design-fundamentals--ud893>

LESSON 1 - Why Responsive

LESSON 2 - Starting Small

LESSON 3 - Building Up

LESSON 4 - Common Responsive Patterns

LESSON 5 - Optimizations

1.	2.	3.	4.	5.
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	
12	12	12	12	
13	13	13	13	
14	14	14	14	
15	15	15		
16	16	16		
17	17	17		
	18	18		
	19	19		
	20	20		
	21	21		
	22	22		
	23	23		
	24			



School of Development

Writing READMEs

Skills Covered

README, Markdown, Making code easier to read

FREE

[+ COURSE DETAILS](#)

Beginner

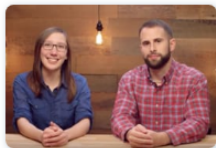
Writing READMEs

Instructor: Walter Latimer

<https://www.udacity.com/course/writing-readmes--ud777>

LESSON 1 - Writing READMEs

1.	2.	3.	4.	5.
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	
12	12	12	12	
13	13	13	13	
14	14	14	14	
15	15	15		
16	16	16		
17	17	17		
	18	18		
	19	19		
	20	20		
	21	21		
	22	22		
	23	23		
	24			



School of Development
Intro To JavaScript

FREE

Skills Covered
JavaScript, Conditionals, Loops,
Data Types & Variables

[+ COURSE DETAILS](#)

Beginner

Intro to JavaScript

Instructors: Julia Van Cleve, James Parkes

<https://www.udacity.com/course/intro-to-javascript--ud803>

LESSON 1 - What is JavaScript?

LESSON 2 - Data Types & Variables

LESSON 3 - Conditionals

LESSON 4 - Loops

LESSON 5 - Functions

LESSON 6 - Arrays

LESSON 7 - Objects

1.	2.	3.	4.	5.
1	1	1	1	1
2		2	2	2
3		3	3	3
4	2	4	4	4
5		5	5	5
6	3	6	6	6
7		7	7	7
8		8	8	8
9	4	9	9	9
10		10	10	10
11	5	11	11	
12		12	12	
13	6	13	13	
14		14	14	
15	7	15		
16		16		
17	8	17		
	9	18		
	10	19		
	11	20		
	12	21		
	13	22		
	14	23		
	15			
	16			
	17			
	18			
	19			
	20			
	21			
	22			
	23			
	24			



School of Development

ES6 - JavaScript Improved

Skills Covered

JavaScript, ES6, Syntax, Functions

FREE

[+ COURSE DETAILS](#)

Advanced

ES6 - JavaScript Improved

Instructor: Richard Kalehoff, James Parkes

<https://www.udacity.com/course/es6-javascript-improved--ud356>

LESSON 1 - Syntax

LESSON 2 - Functions

LESSON 3 - Built-ins

LESSON 4 - Professional Developer-fu

1.	2.	3.	4.	5.
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	8	9	9	9
10	9	10	10	10
11	10	11	11	
12	11	12	12	
13	12		13	
14	13		14	
15	14			
16	15	13		
17	16	14		
	17	15		
	18	16		
	19	17		
	20	18		
	21	19		
	22	20		
	23	21		
	24	22		
		23		



School of Development

Shell Workshop

Skills Covered
Shell, Using Terminal, Running
command-line programs,

FREE

+ COURSE DETAILS

Beginner

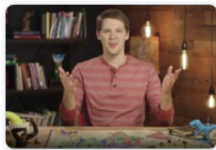
Shell Workshop

Instructor: Karl Krueger

<https://www.udacity.com/course/shell-workshop--ud206>

LESSON 1 - Shell Workshop

1.	2.	3.	4.	5.
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	
12	12	12	12	
13	13	13	13	
14	14	14	14	
15	15	15		
16	16	16		
17	17	17		
	18	18		
	19	19		
	20	20		
	21	21		
	22	22		
	23	23		
	24			



School of Development

Version Control With Git

FREE

Skills Covered

Git, Version Control, Creating a Git repo, Editing commits

[+ COURSE DETAILS](#)

Beginner

Version Control with Git

Instructor: Richard Kalehoff

<https://www.udacity.com/course/version-control-with-git--ud123>

LESSON 1 - What is Version Control?

LESSON 2 - Create a Git Repo

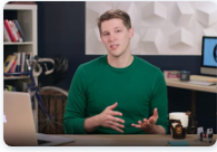
LESSON 3 - Review a Repo's History

LESSON 4 - Add Commits to a Repo

LESSON 5 - Tagging, Branching, and Merging

LESSON 6 - Undoing Changes

1.	2.	3.	4.	5.
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	10	11	11	
12	11	12	12	
13	12	13	13	
14	13	14	14	
15	14	15		
16	15	16		
17		17		
		18		
		19		
		20		
		21		
		22		
		23		
	16			
	17			
	18			
	19			
	20			
	21			
	22			
	23			
	24			



School of Development

GitHub & Collaboration

FREE

Skills Covered

Repositories, Fork a repository,
Create and Send a Pull Request,

[+ COURSE DETAILS](#)

Beginner

GitHub & Collaboration

Instructor: Richard Kalehoff

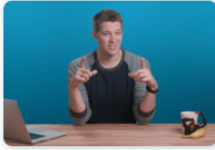
<https://www.udacity.com/course/github-collaboration--ud456>

LESSON 1 - Working With Remotes

LESSON 2 - Working On Another Dev's Repository

LESSON 3 - Staying In Sync With A Remote Repository

1.	2.	3.	4.	5.
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	
12	12	12	12	
13	13	13	13	
14	14	14	14	
15	15	15		
16	16	16		
17	17	17		
	18	18		
	19	19		
	20	20		
	21	21		
	22	22		
	23	23		
	24			



School of Development
JavaScript And The DOM

FREE

+ COURSE DETAILS

Intermediate

JavaScript and the DOM

Instructor: Richard Kalehoff

<https://www.udacity.com/course/javascript-and-the-dom--ud117>

LESSON 1 - The Document Object Model

LESSON 2 - Creating Content with JavaScript

LESSON 3 - Working with Browser Events

LESSON 4 - Performance

1.	2.	3.	4.	5.
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	
12	12	12	12	
13	13	13	13	
14	14	14	14	
15	15	15		
16	16	16		
17	17	17		
	18	18		
	19	19		
	20	20		
	21	21		
	22	22		
	23	23		
	24			



School of Development
Web Accessibility

FREE

Skills Covered
Accessibility, Screen Readers,
Focus, Semantics, ARIA

In Collaboration With
Google

[+ COURSE DETAILS](#)

Advanced

Web Accessibility

Instructors: Alice Boxhall, Rob Dodson, Michael Wales

<https://www.udacity.com/course/web-accessibility--ud891>

LESSON 1 - Accessibility Overview

LESSON 2 - Focus

LESSON 3 - Semantics Basics

LESSON 4 - Navigating Content

LESSON 5 - ARIA

LESSON 6 - Style

1.	2.	3.	4.	5.
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	
12	12	12	12	
13	13	13	13	
14	14	14	14	
15	15	15		
16	16	16		
17	17	17		
	18	18		
	19	19		
	20	20		
	21	21		
	22	22		
	23	23		
	24	24		



School of Development

Object-Oriented JavaScript

FREE

Skills Covered

Object Oriented Javascript, Object-oriented programming, Data and

[+ COURSE DETAILS](#)

Intermediate

Object-Oriented JavaScript

Instructors: Richard Kalehoff, Andrew Wong

<https://www.udacity.com/course/object-oriented-javascript--ud711>

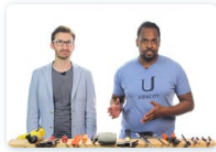
LESSON 1 - Objects in Depth

LESSON 2 - Functions at Runtime

LESSON 3 - Classes and Objects

LESSON 4 - Object-Oriented Design Patterns (Not part of the Fend)

1.	2.	3.	4.	5.
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	
12	12	12	12	
13	13	13	13	
14	14	14	14	
15	15	15		
16	16	16		
17	17	17		
	18	18		
	19	19		
	20	20		
	21	21		
	22	22		
	23	23		
	24	24		



School of Development

Web Tooling & Automation

FREE

Skills Covered

Installing Sublime Text, Installing
Plugins, Gulp, Live Editing, ESLint

In Collaboration With

Google

[+ COURSE DETAILS](#)

Intermediate

Web Tooling & Automation

Instructors: Paul Bakaus, James Williams

<https://www.udacity.com/course/web-tooling-automation--ud892>

LESSON 1 - Introduction (Introducing Web Tooling and Automation)

LESSON 2 - Productive Editing

LESSON 3 - Powerful Builds

LESSON 4 - Expressive Live Editing

LESSON 5 - How to Prevent Disasters

LESSON 6 - Awesome Optimizations

LESSON 7 - Conclusion (Web Tooling and Automation Conclusion)

1.	2.	3.	4.	5.
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	
12	12	12	12	
13	13	13	13	
14	14	14	14	
15	15	15		
16	16	16		
17	17	17		
	18	18		
	19	19		
	20	20		
	21	21		
	22	22		
	23	23		
	24			



School of Development

JavaScript Testing

FREE

Skills Covered

Javascript Apps, Jasmine testing framework, red-green-refactor

[+ COURSE DETAILS](#)

Intermediate

JavaScript Testing

Instructor: Michael Wales

<https://www.udacity.com/course/javascript-testing--ud549>

LESSON 1 - Rethinking Testing

LESSON 2 - Writing Test Suites

1.	2.	3.	4.	5.
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	
12	12	12	12	
13	13	13	13	
14	14	14	14	
15	15	15		
16	16	16		
17	17	17		
	18	18		
	19	19		
	20	20		
	21	21		
	22	22		
	23			
	24	23		



School of Development

JavaScript Design Patterns

Skills Covered

Separating concerns, Code organization, Using an

FREE

+ COURSE DETAILS

Advanced

JavaScript Design Patterns

Instructor: Ben Jaffe

<https://www.udacity.com/course/javascript-design-patterns--ud989>

LESSON 1 - Changing Expectations

LESSON 2 - Refactoring with Separation of Concerns

LESSON 3 - Using an Organizational Library (**Not part of the Fend**)

LESSON 4 - Learning a New Codebase (**Not part of the Fend**)

LESSON 5 - Final Project (**Not part of the Fend**)

1.	2.	3.	4.	5.
1	1	1	1 2	1
2	2	2		2
3	3	3		3
4	4	4		4
5	5	5		5
6	6	6		3
7	7	7		6
8	8	8		7
9	9	9		8
10	10	10		9
11	11	11		10
12	12	12		11
13	13	13		12
14	14	14		13
15	15	15		14
16	16	16		
17	17	17		
	18	18		
	19	19		
	20	20		
	21	21		
	22	22		
	23	23		
	24			



School of Development

JavaScript Promises

Skills Covered

Native JavaScript Promises,
Asynchronous code, Advanced

In Collaboration With

Google

FREE

[+ COURSE DETAILS](#)

Advanced

JavaScript Promises

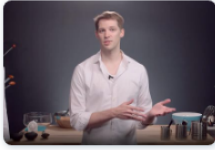
Instructor: Cameron Pittman

<https://www.udacity.com/course/javascript-promises--ud898>

LESSON 1 - Creating Promises

LESSON 2 - Chaining Promises

1.	2.	3.	4.	5.
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	3	4
5	5	5	4	5
6	6	6	5	6
7	7	7	6	7
8	8	8	7	8
9	9	9	8	9
10	10	10	9	10
11	11	11	10	
12	12	12	11	
13	13	13	12	
14	14	14	13	
15	15	15	14	
16	16	16		
17	17	17		
	18	18		
	19	19		
	20	20		
	21	21		
	22	22		
	23	23		
	24			



School of Development

Asynchronous JavaScript Requests

FREE

Skills Covered

Asynchronous Data Retrieval, Ajax
with XHR, Ajax with jQuery, Ajax

[+ COURSE DETAILS](#)

Intermediate

Asynchronous JavaScript Requests

Instructor: Richard Kalehoff

<https://www.udacity.com/course/asynchronous-javascript-requests--ud109>

LESSON 1 - Ajax with XHR

LESSON 2 - Ajax with jQuery

LESSON 3 - Ajax with Fetch

1.	2.	3.	4.	5.
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	
12	12	12	12	
13	13	13	13	
14	14	14	14	
15	15	15	15	
16	16	16	16	
17	17	17	17	
	18	18	18	
	19	19	19	
	20	20	20	
	21	21	21	
	22	22	22	
	23	23	23	
	24			



School of Development

Front End Frameworks

Skills Covered

Single Page Applications, Building
Angular apps, Building Ember

In Collaboration With

Google

FREE

[+ COURSE DETAILS](#)

Advanced

Front End Frameworks

Instructor: Richard Kalehoff

<https://www.udacity.com/course/front-end-frameworks--ud894>

LESSON 1 - Features of Single Page Apps

LESSON 2 - Examine A Framework's Source.

LESSON 3 - Angular

LESSON 4 - Ember

1.	2.	3.	4.	5.
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	8	9
10	10	10	9	10
11	11	11	10	
12	12	12	11	
13	13	13		
14	14	14		
15	15	15		
16	16	16		
17	17	17		
	18	18	12	
	19	19	13	
	20	20	14	
	21	21		
	22	22		
	23	23		
	24	24		



School of Development

Offline Web Applications

FREE

Skills Covered

Developing offline-first applications, Understanding Lie-Fi,

In Collaboration With

Google

[+ COURSE DETAILS](#)

Intermediate

Offline Web Applications

Instructor: Michael Wales

<https://www.udacity.com/course/offline-web-applications--ud899>

LESSON 1 - The Benefits of Offline First

LESSON 2 - Introducing the Service Worker

LESSON 3 - IndexedDB and Caching (Not part of the Fend)

1.	2.	3.	4.	5.
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	
12	12	12	12	
13	13	13	13	
14	14	14	14	
15	15	15	15	
16	16	16	16	
17	17	17	17	
	18	18		
	19	19		
	20	20		
	21	21		
	22	22		
	23	23		
	24			



School of Development

Google Maps APIs

FREE

Skills Covered

Google Maps APIs, Static Maps,
Street View imagery, monitoring

In Collaboration With

Google

[+ COURSE DETAILS](#)

Intermediate

Google Maps APIs

Instructors: Emily Keller, Ajay Hemnani, Michael Wales

<https://www.udacity.com/course/google-maps-apis--ud864>

LESSON 1 - Getting Started with the APIs

LESSON 2 - Understanding API Services

LESSON 3 - Using the APIs in Practice

1.	2.	3.	4.	5.
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	11
12	12	12	12	12
13	13	13	13	13
14	14	14	14	14
15	15	15		
16	16	16		
17	17	17		
	18	18		
	19	19		
	20	20		
	21	21		
	22	22		
	23	23		
	24			