

# Ajax + APIs

Our go-at-your-own-pace short course has 8+ hours of video lessons that will teach you how APIs and Ajax work together so you can make your own remixed projects from third-party data sources.

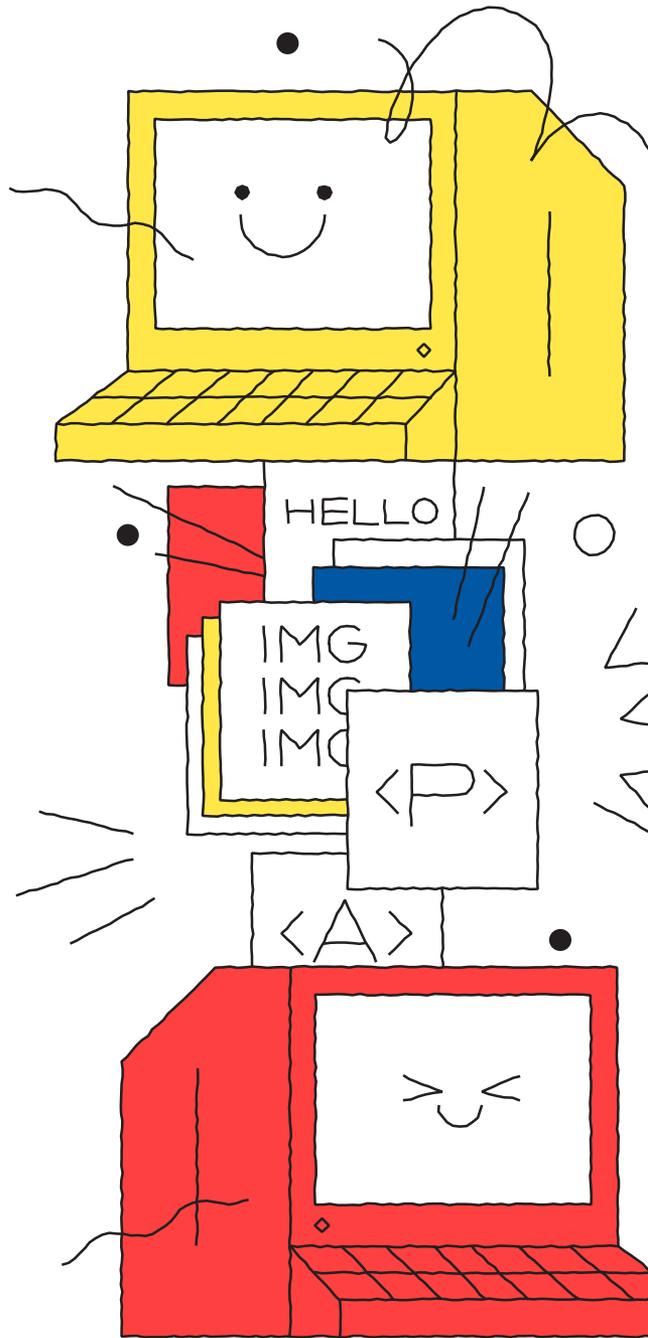
Have a question? Get in touch!

[hi@superhi.com](mailto:hi@superhi.com)

[www.superhi.com/faq](http://www.superhi.com/faq)

[twitter.com/superhi\\_](https://twitter.com/superhi_)

[facebook.com/superhidotcom](https://facebook.com/superhidotcom)



## About the course

Whenever someone says “Twitter has an API”, what they mean is that Twitter has a particular way to let other sites remix their data to create brand new projects.

If you want to make a custom Instagram feed, a Figma-driven client presentation tool, a Bitcoin tracker or your own redesigned version of Twitter, all of these projects need to communicate back-and-forth with a data source.

## Who is this course for?

Anyone who is looking for ways to work with data from third party services such as Figma, Contentful, Twitter or Instagram.

We would recommend knowledge of HTML, CSS and Javascript before starting this course. Taking either Foundation HTML, CSS + JS or Javascript for Designers will be sufficient, as we'll be using Javascript to send and receive data to web pages.

A portion of the course covers back-end coding with Ruby but prior knowledge of Ruby or back-end coding isn't needed to join this course.



## What you'll get

### 8+ hours of video lessons

Covering the basics of UX design and best practices

### Resources

Resources to get you started and keep you going post-course

### Continued help post-course

Help from our expert instructors with years of experience in the industry

### Real world projects

Projects and code that you can alter and remix to add your own sites

### Extra homework challenges

Test your knowledge!

### Access to the SuperHi community

Join our Slack and our super secret group on Facebook

## What you'll learn

- How to send and receive data from a web page from both your own data sources and third-party data sources
- Learn how to work with varying data types such as JSON, XML and HTML
- Working with APIs such as Figma, Coindesk, Instagram, Unsplash, Contentful and Twitter
- How to work with protected APIs using API keys, tokens and OAuth logins
- How to let users sign up or login to a site with third party services like Twitter, Facebook or Slack
- How to use web scraping to get data from websites that don't have their own open API

## Lesson 1

### Grabbing HTML

We start with a simple example of how to get HTML from another page into the current page without having to go to that next page. Our lesson lets our user pull content from an about page into a slide out panel.

## Lesson 2

### Grabbing JSON

Most modern data sources are in JSON format – Javascript Object Notation – we don't have to use Javascript to use JSON but we need to know how to turn that data into something useful. Our lesson will let our user get a random fortune cookie message on click of a button.

## Lesson 3

### Our first API request

Bitcoin's price has more ups and downs than a rollercoaster, so rather than have us go into our HTML and update manually, let's use our first API to get the price for us – let's automate that hard work!

Our lesson will let our user get the current Bitcoin price in the currency of their choice – US dollar, Euro or British pounds – using the Coindesk public price API.



#### Do I have to finish the course in a certain amount of time?

Once you buy the course, it's yours forever! You'll always have access to the lessons and our support.

This course has around 8 hours of video lessons, so you can break down your learning however works best for you and your schedule.

## Lesson 4

# Contentful CMS

Rather than building a full CMS ourselves using a code framework like WordPress or Ruby on Rails, sometimes it can be easier to use a third-party CMS tool.

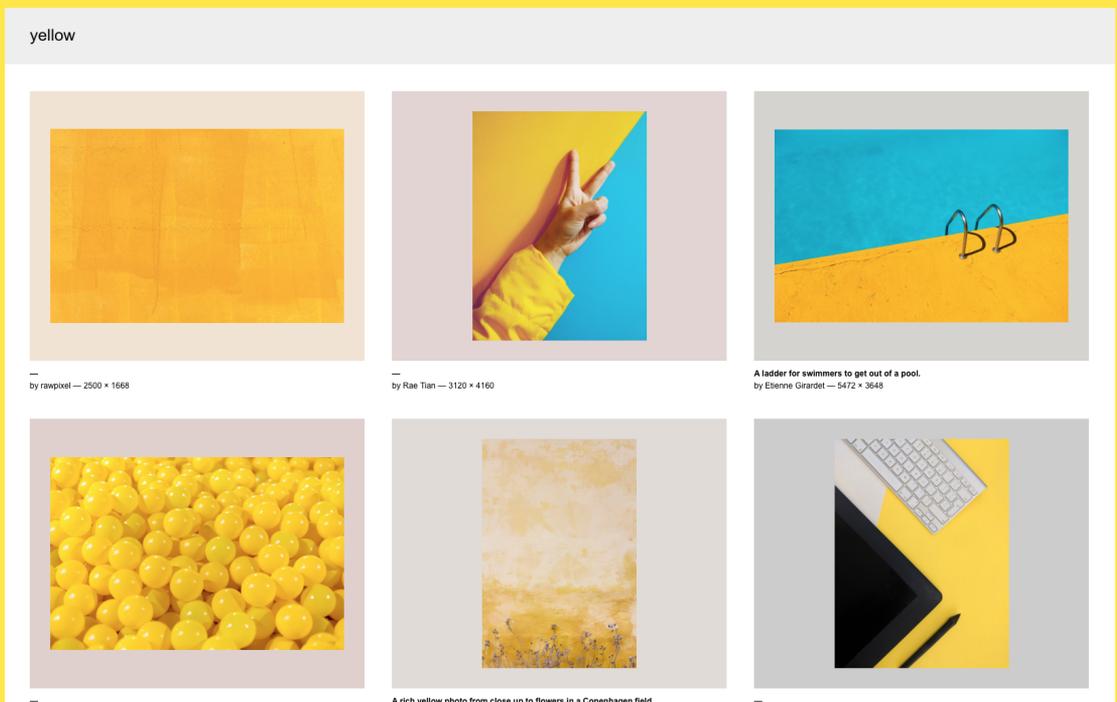
In this lesson, we talk about how to use the Contentful API to get data that a client or a team member can update easily that can be imported straight into your site.

## Lesson 5

# Unsplash Searcher

Sometimes the data we grab is dependent on what our user wants. In this lesson we talk about how to grab Unsplash's data based on what our user has searched.

If a user wants yellow photos, we want to show them just yellow photos. If they want photos of Shiba Inu's, we want to give them what they want!



### Need help with any of the projects?

There are a few dedicated places to ask for help. You can ask directly on course videos – just scroll down and you'll see the Q+A section.

You can also join our student Slack group or email us at [hi@superhi.com](mailto:hi@superhi.com).

## Lesson 6

### Figma client presentation

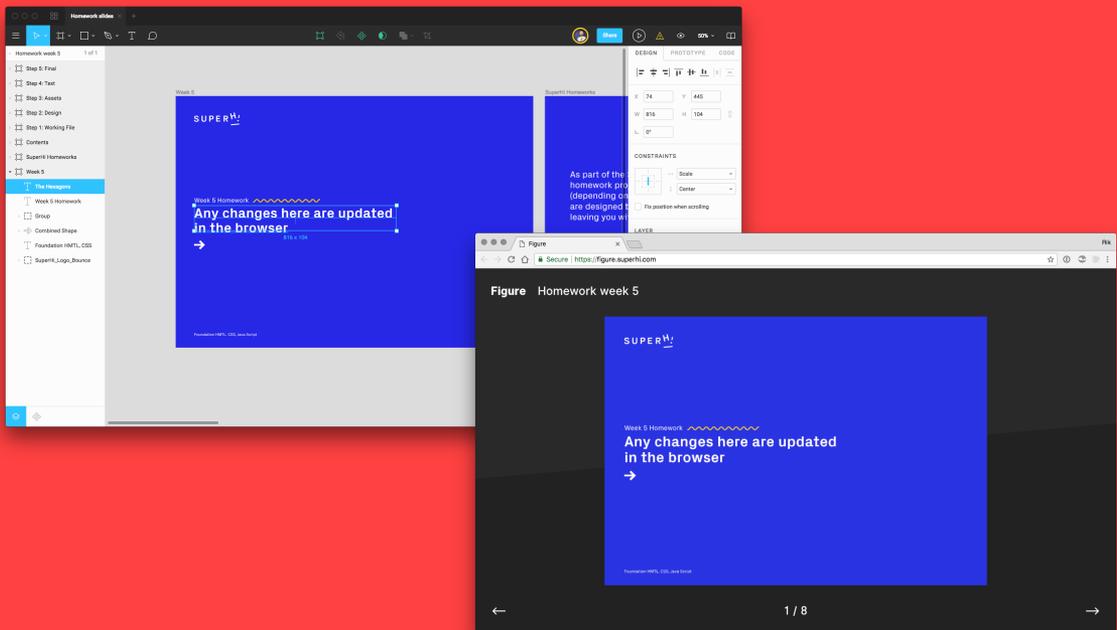
One of the best parts of APIs is automation. Rather than redoing the same process, we can do something once and it will work without any manual updating.

In this lesson, we integrate with Figma's API to make a tool that lets us present our designs in the browser. If you make an update to Figma, the site automatically updates too!

## Lesson 7

### Custom Instagram feed

To paraphrase The Smiths, some APIs are bigger than others, some APIs security are bigger than other APIs security. For certain sites like Instagram, we have to jump through a few hoops to get the data we need. We'll talk a bit more about how OAuth works and how you can get your own Instagram token to create a custom Instagram feed for your site.



## Video requests

Joining the course also means you have access to our video requests page so you can request a video tutorial on a particular technique or vote up other people's requests!

## Lesson 8

# Minimal Twitter

You may have noticed sites that ask you to sign up or login with another site like Facebook, Google or Instagram. This technique is called OAuth – a way for one site to let users of another site use their data.

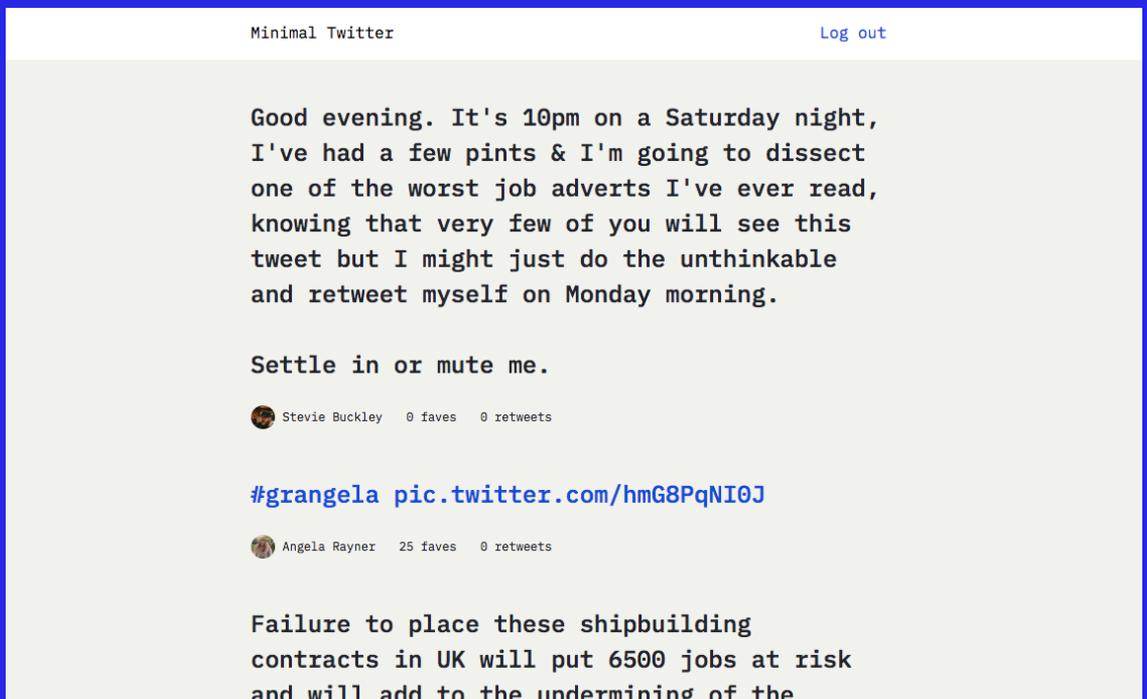
In this lesson using Twitter's OAuth API, we make a redesigned version that lets users see their own timeline.

## Lesson 9

# Web scraping

But what if a site doesn't have an API? It's still possible to grab data from there!

With a little bit of a code, we can pull and analyze data from pretty much any HTML pages on the internet using CSS-style selectors to grab portions of the page.



## Requirements

To join this course, you need to know how HTML, CSS + Javascript work together. You don't need to be an expert but at least comfortable with them. We would recommend taking either our Foundation HTML, CSS + JS course or our Javascript for Designer course before this one, if not.