

A man with dark hair, wearing a blue and white checkered shirt, is seated at a long, rustic wooden table. He is focused on his laptop, with his hands on the keyboard. The table is made of several wide wooden planks and is surrounded by light-colored wooden chairs. In the background, there is a large window with vertical blinds, a black fan on a windowsill, and a white radiator. A modern, minimalist lamp hangs from the ceiling. The overall atmosphere is bright and professional.

AN INTRODUCTION TO APIS

CHO S. KIM, INSTRUCTOR
GENERAL ASSEMBLY

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Objectives

- Students will be able to...
 - describe an API
 - reference examples of an API
 - create their own API
 - integrate data from an (RESTful) API
 - name at least 3 minions :)



WHAT'S AN API?

SEMANTICS: API

- Application Programming Interface...

SEMANTICS: API

- Application Programming Interface...
 - Application's Programming Interface

SEMANTICS: API

- Application Programming Interface...
 - Application's Programming Interface
 - An Application's Programming Interface

SEMANTICS: API

- Application Programming Interface...
 - Application's Programming Interface
 - An Application's Programming Interface
 - An Application's Programming Conversation

SEMANTICS: API

- Application Programming Interface...
 - Application's Programming Interface
 - An Application's Programming Interface
 - An Application's Programming Conversation
 - An Application's Planned Conversation

SEMANTICS: API

- Application Programming Interface...
 - Application's Programming Interface
 - An Application's Programming Interface
 - An Application's Programming Conversation
 - An Application's Planned Conversation
 - An Application's Planned Communication

SEMANTICS: API

- Application Programming Interface...
 - Application's Programming Interface
 - An Application's Programming Interface
 - An Application's Programming Conversation
 - An Application's Planned Conversation
 - An Application's Planned Communication
 - An Application's Planned Communication (with other Applications)

EXAMPLES OF AN API

A man with dark hair, wearing a blue and white checkered shirt, is seated at a long, rustic wooden table. He is focused on his laptop, with his hands on the keyboard. The table is made of several wide wooden planks and is surrounded by light-colored wooden chairs. In the background, there is a large window with vertical blinds, a black fan on a windowsill, and a white radiator. A modern, dome-shaped pendant light hangs above the table. The overall atmosphere is bright and professional.

EXAMPLES OF AN API: API

▸ Application Programming Interface...

- OMDb

- <http://www.omdbapi.com/?t=rocky>

- Indeed

- [http://api.indeed.com/ads/apisearch?](http://api.indeed.com/ads/apisearch?publisher=8650987609254119&q=javascript&l=philadelphia&v=2&format=json)

- [publisher=8650987609254119&q=javascript&l=philadelphia&v=2&format=json](http://api.indeed.com/ads/apisearch?publisher=8650987609254119&q=javascript&l=philadelphia&v=2&format=json)

APIS: CREATE OUR OWN

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EXAMPLES OF AN API: API

► New Concepts:

- more than one instance of an Express application
- request module

EXAMPLES OF AN API: API

► New Concepts:

- more than one instance of an Express application
- request module

► Exercise: Minions API

- create two Express applications
- require the request module
- have an app contain a URL that returns an array of minions in JSON. Find a list of properties here: <http://visual.ly/whos-who-minions>
- have the other application send a GET request to the first application with the URL containing the minions JSON. Add yourself to the list of minions and then display the list.

APIS: INCLUDE EXTERNAL

Including External API:

► New Concepts:

- developer's section for using APIs
- query parameters

► Exercise: OMDb API

- create an Express application
- use the OMDb API
- create a form with a text input that accepts the name of a movie.
When a user clicks submit, return to the user the list of movies with that title.

Including External API:

- ▶ New Concepts:
 - developer's section for using APIs
 - query parameters

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THANK YOU.

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