AN INTRODUCTION TO APIS
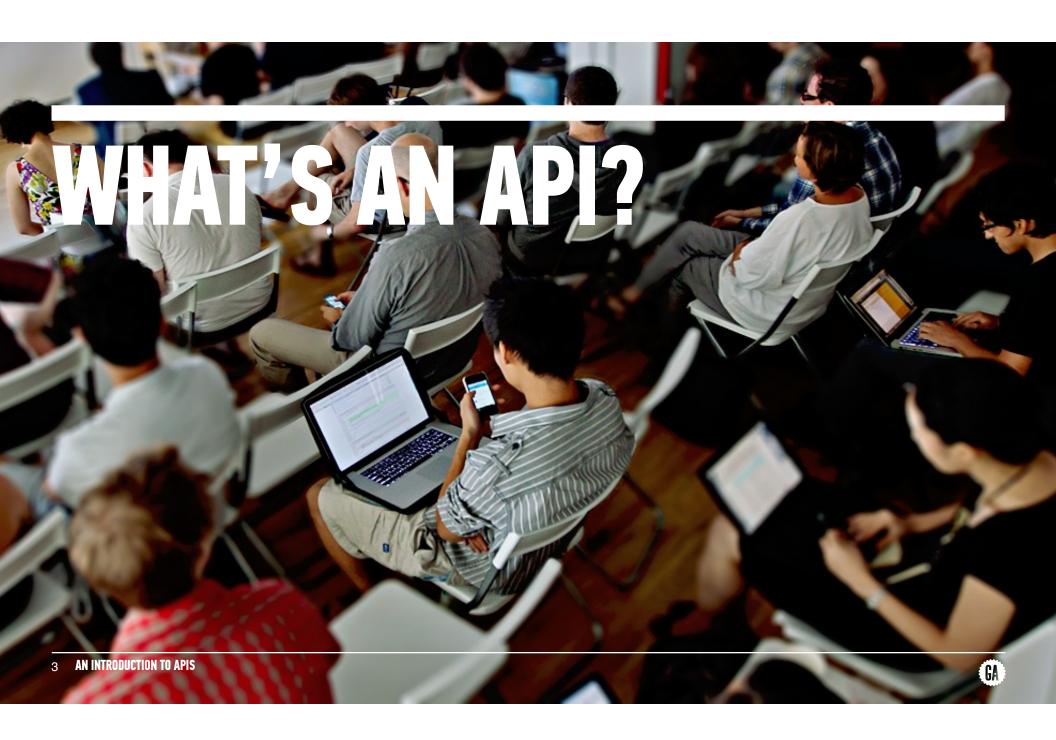
CHO S. KIM, INSTRUCTOR
GENERAL ASSEMBLY

GA

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
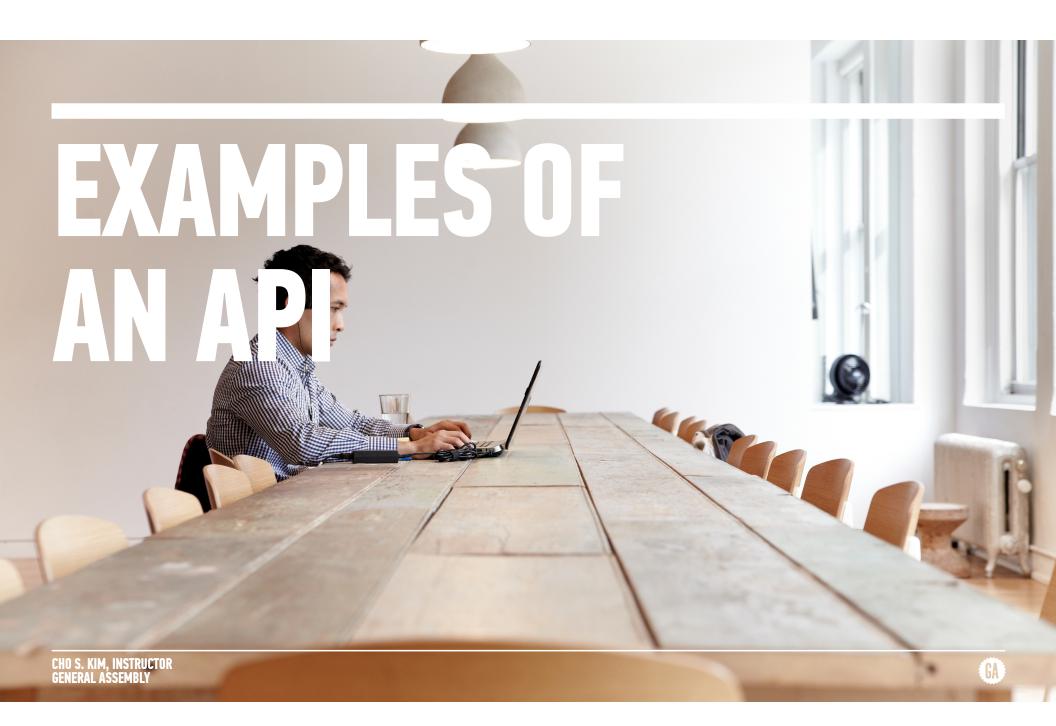 • An Application's Programming Interface

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
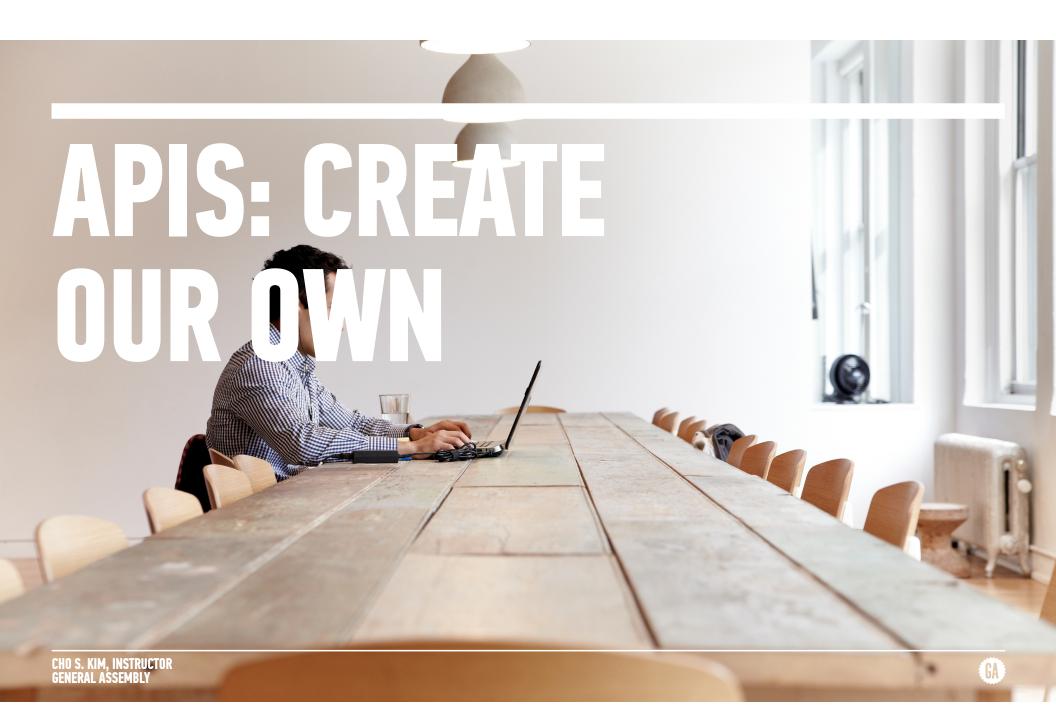 • An Application's Planned Conversation
  • An Application's Planned Communication

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

EXAMPLES OF AN API: API

‣ Application Programming Interface…
  • OMDB
    • http://www.omdbapi.com/?t=rocky
  • Indeed
    • http://api.indeed.com/ads/apisearch?
      publisher=8650987609254119&q=javascript&l=philadelphia&v=2&f
      %20&format=json

APIS: CREATE OUR OWN

CHO S. KIM, INSTRUCTOR
GENERAL ASSEMBLY

EXAMPLES OF AN API: API

‣ New Concepts:
  • more than one instance of an Express application
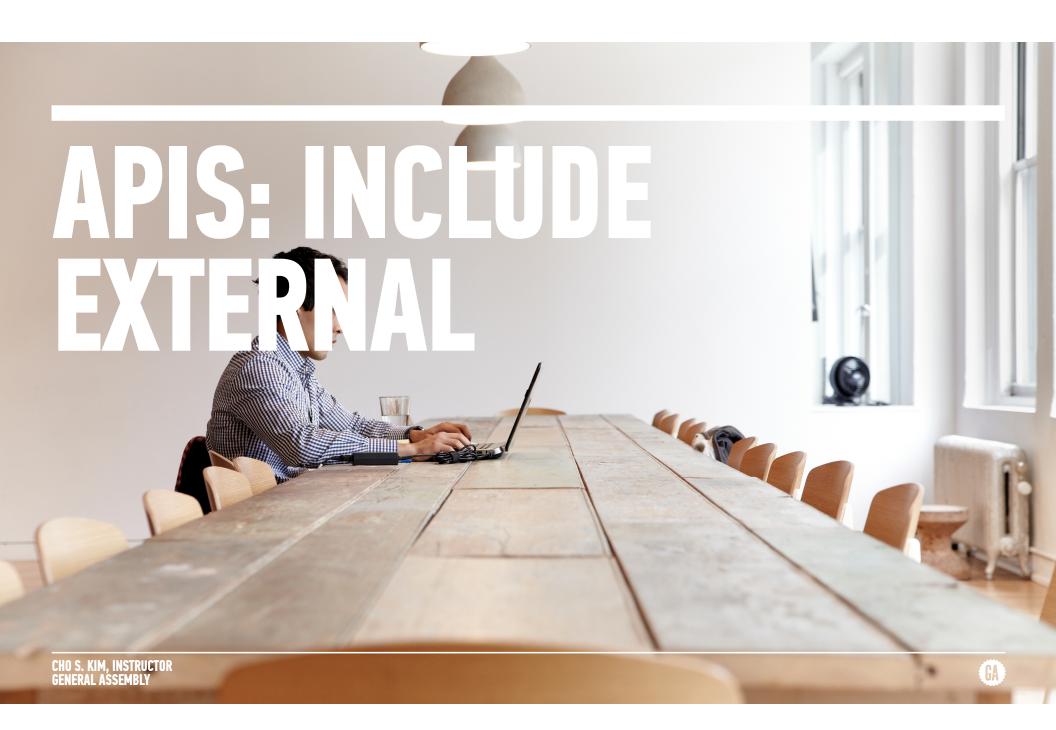 • request module

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

CHO S. KIM, INSTRUCTOR
GENERAL ASSEMBLY

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

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 :)

THANK YOU.

‣ Cho S. Kim
‣ www.choskim.me
‣ cho@ga.co