# BACK END WEB DEVELOPMENT

**CLASS 04 - HASHES, COLLECTIONS & APIS** 

## **AGENDA**

QUIZ - CALL ME!
INTRO TO BASIC API'S & JSON
BUILD SOMETHING COOL!

## GIT IT!

YOU SHOULD KNOW HOW TO DO THIS

:-)

## REVIEW COLLECTIONS

#### **ARRAY**

#### **HASHES**

## CALL ME!

QF\_CALLME.RB

time: 20 minutes

## TEDDIT - BASIC

**HOMEWORK REVIEW BY PEER** 

TIME: 10 MINUTES

#### **APIS**

GUI is Graphical User Interface: a way for users to interact with a website. http://mashable.com/

API is Application Programming Interface: a way for programs to interact with a website. http://mashable.com/stories.json

#### MORE ABOUT APIS

<u>A</u> pplication <u>P</u> rogramming <u>L</u>nterface

An API can also be a way for two *things* to interact with each other without knowing about all of the stuff inside.

- Cars have APIs.
- Web sites have APIs
- Objects have APIs.

#### WHY USE APIS?

You can read data from other web sites Your web site can provide data to others

APIs are a basic skill for designing Objects!

APIs are also very important in Rails!

### **WEB APIS USE 'JSON' TO SHARE DATA**

"JavaScript Object Notation"

It was originally created for JavaScript, but pretty much everything uses it now, even some databases.

The syntax is very similar to Ruby hashes.



```
JSON: [{"NY":"New York","LA":"Los Angeles","SYD":"Sydney","LDN":"London"}]
ruby: [{"NY"=>"New York", "LA"=>"Los Angeles", "SYD"=>"Sydney", "LDN"=>"London"}]
```

## HASHES DEMO

**REDDIT API HACK** 

#### **APIS WITH RUBY**

- 1. Ask for some data
- 2. Convert it into a format we can work with
- 3. Do cool stuff

#### How to get started:

```
gem install rest-client
```

#### JSON tools come pre-installed with Ruby!

```
** use pry at your command line **
require 'json'
require 'rest-client'
reddit_json = JSON.load(RestClient.get('http://www.reddit.com/.json'))
```

# TEDDIT + API'S

TEDDIT\_API.RB

time: 90 minutes