

# JAVASCRIPT SESSION 3

09/17/2015

# Today's Program



FREE (LIBRE) SOFTWARE: THE FIRST STEP TOWARDS FREEDOM IN YOUR DIGITAL LIFE  
by RICHARD STALLMAN

OCTOBER 12, 6:00 P.M.  
THE AUDITORIUM  
The New School  
66 West 12th Street  
New York, NY 10011

The event is free and open to the public.

# Today's Program

- Admin: Attendance
- Presentation of Assignments
- Javascript Project
- APIs

# Assignments

# JS Project

[https://github.com/sabotai/CCLAB-Fall2015/blob/master/03-JS02\\_APIs/JavascriptProjectAssignment.pdf](https://github.com/sabotai/CCLAB-Fall2015/blob/master/03-JS02_APIs/JavascriptProjectAssignment.pdf)

API  
CALLS

# API CALLS

API stands for

**A**pplication **P**rogramming **I**nterface



# API CALLS

An API is a tool that enables your code to gather information from a third-party.

# API CALLS

## Main Expressions

- API calls
- REST
- API key
- Widget
- Request / Response / Query
- JSON / XML

# API CALLS

You send hypertext transfer protocol  
**(HTTP) requests.**

# API CALLS

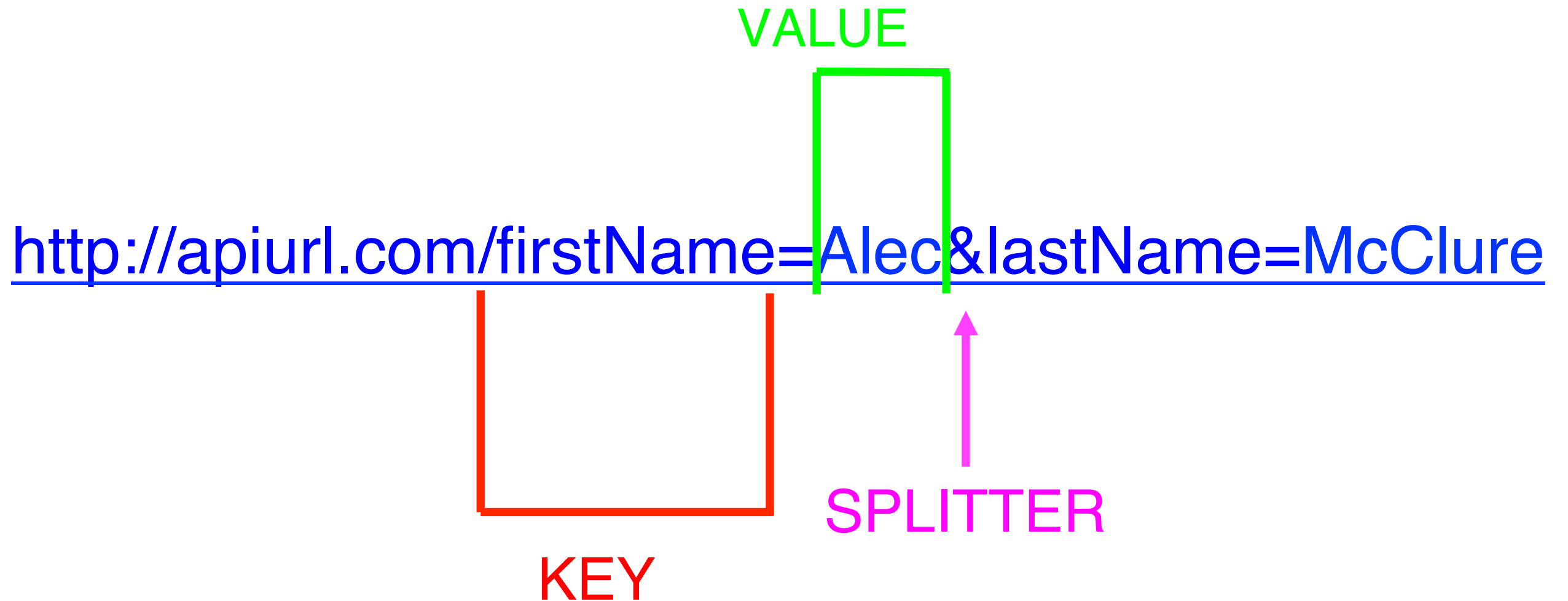
**GET**

**POST**

**PUT**

**DELETE**

# API CALLS



# API CALLS

The API returns **JSON** or **XML** files.

# API CALLS

What is JSON?

**J**ava**S**cript **O**bject **N**otation

[plays well with JavaScript]

# API CALLS

```
var teacher = {  
  "firstName" : "Alec",  
  "lastName" : "McClure",  
  "job" : "Technologist",  
  "degree" : "MFA"  
};
```



# API CALLS

What is XML?

**E**Xtensible **M**arkup **L**anguage

[plays well with HTML]

# API CALLS

```
<teacher>  
  <firstName>Alec</firstname>  
  <lastName>McClure</lastname>  
  <job>Technologist</job>  
  <degree>MFA</degree>  
</teacher>
```

API CALLS

LET'S TRY IT!

# API CALLS

But first, you need an API key.

# API CALLS

[http://www.wunderground.com/weather/  
api/](http://www.wunderground.com/weather/api/)

# API CALLS

[Weather](#) ▾[Maps & Radar](#) ▾[Severe Weather](#) ▾[Photos & Video](#) ▾[Community](#) ▾[News](#) ▾[Climate](#) ▾[Sign In](#)

## A WEATHER API DESIGNED FOR DEVELOPERS

[API Home](#)[Pricing](#)[Featured Applications](#)[Documentation](#)[Forums](#)

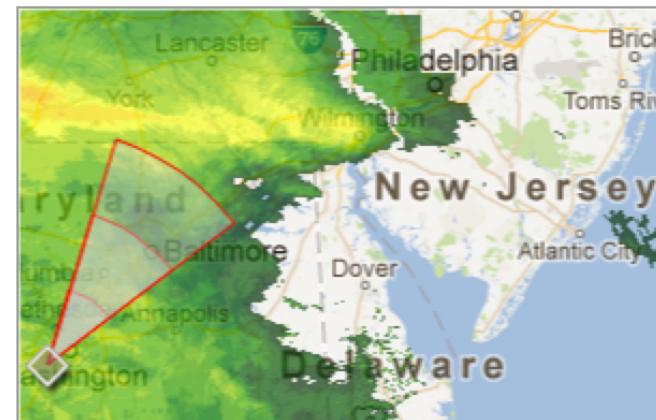
Reliable data, accurate forecast, & global coverage in 80 languages. [About Our API](#)

### Key Features

- JSON or XML formatted ?
- Easy key management
- Error-logging tools
- Rate-monitoring tools
- Complete geo location service
- Autocomplete API to power geo-search
- Worldwide weather stations network ?

[Explore My Options >>](#)[Sign Up for FREE! >>](#)

### WunderMap Layers ?



# API CALLS

[Weather ▾](#)[Maps & Radar ▾](#)[Severe Weather ▾](#)[Photos & Video ▾](#)[Community ▾](#)[News ▾](#)[Climate ▾](#)[Sign In](#)

## GET YOUR API KEY

[API Home](#)[Pricing](#)[Featured Applications](#)[Documentation](#)[Forums](#)

Customize a plan that suits your needs:

TOTAL: \$0 USD per month

[Purchase Key >>](#)

• STRATUS PLAN	● CUMULUS PLAN	● ANVIL PLAN
Geolookup Autocomplete Current conditions 3-day forecast summary Astronomy Almanac for today earthquake * member	Geolookup Autocomplete Current conditions 3-day forecast summary Astronomy Almanac for today earthquake * member	Geolookup Autocomplete Current conditions 3-day forecast summary Astronomy Almanac for today earthquake * member
	10-day forecast summary Hourly 1-day forecast Satellite thumbnail Dynamic Radar image Severe alerts Tides and Currents Tides and Currents Raw Severe alerts	10-day forecast summary Hourly 1-day forecast Satellite thumbnail Dynamic Radar image Severe alerts Tides and Currents Tides and Currents Raw Severe alerts

# API CALLS

What country are you or your company based in?

Select a country

Please give a brief description of how you will be using our API  
255 character max length

☐ I understand that usage of the Weather Underground API requires proper attribution

☐ I agree to the [Terms of Service](#)

Purchase Key >>

Your Selected Plan: Developer Status

Change Plan >>

Monthly Pricing  
**\$0**

Calls Per Day  
**500**

Calls Per Minute  
**10**

+ History  
**\$0**

**TOTAL**  
**\$0** USD per month

## Weather for Business Intelligence

Sales Tracker  
Case Studies  
Temperature Maps

## Weather Data for Your Business

Free Widgets  
Interactive Maps  
Custom Webpages  
Newspapers  
Printable Flyers  
API

## Weather for Advertising

Weather Targeting  
Advertise With Us  
Dynamic Creatives  
Media Kit



# API CALLS

Check “Key Settings” to see your API key.

# API CALLS

Check out the **API documentation**:

[www.wunderground.com/weather/api/d/docs?d=data/index](http://www.wunderground.com/weather/api/d/docs?d=data/index)

**ASSIGNMENT**

# **1. GET YOUR HW POSTED TO THE CLASS TUMBLR**

<http://parsons-pgte5250.tumblr.com>

# **2. START YOUR JAVASCRIPT FINAL**

By next class you should have a basic  
structural framework coded

GitHub

# github

## **Main Expressions**

- `git add`
- `git commit -m`
- `git remote add`
- `git push`

# github

Log-in to your GitHub and create a new repository

[Pull requests](#)[Issues](#)[Gist](#)

# github

Owner



gaborparsons ▾

/

Repository name

test-repo



Great repository names are short and memorable. Need inspiration? How about **adamant-octo-kumquat**.

Description (optional)



**Public**

Anyone can see this repository. You choose who can commit.



**Private**

You choose who can see and commit to this repository.



**Initialize this repository with a README**

This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: **None** ▾

Add a license: **None** ▾



Create repository



# github

```
$ cd /Path/To/CCLabFolder
```

# github

```
$ mkdir CCLabLiveCoding
```

# github

```
$ cd CCLabLiveCoding
```

# github

```
$ git init
```

# github

```
$ git add .
```

# github

```
$ git commit -m "hello git."
```

# github

```
$ git remote add origin  
https://github.com/aesam/  
CCLabInClass.git
```

The link formula is GitHub secure URL + your  
user name + your repo name + .git

(It's easier to copy and paste that from the browser).

# github

```
$ git push origin master
```



# github

Check the repository in the browser.