



Server-Side Languages

Todd Smith
tbsmith@fullsail.com

Welcome to SSL Day 7!

Interacting with a JSON API

Day 7



Server-Side Languages

Overview

In this class we will build a
connection to a JSON API.

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JSON in PHP

```
json_encode($q
```

```
json_decode($
```

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JSON in Python

```
import json
```

```
json.loads(
```

```
json.dumps(
```

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Reading from a URL in PHP

```
function duck($text='default') {  
  
    $url = "http://api.duckduckgo.com/?q=" .  
        urlencode($text) .  
        "&format=json&pretty=1";  
  
    $contents = file_get_contents($url);  
  
    $data = json_decode($contents);  
  
    echo "<pre>";  
    var_dump($data);  
    echo "</pre>";  
}
```

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Reading from a URL in Python

```
import urllib2
```

```
def duck(self, text="default"):  
    response = urllib2.urlopen(  
        "http://api.duckduckgo.com/?q=" +  
        text + "&format=json&pretty=1")  
    resp = response.read()  
    gotJson = json.loads(resp)  
    print gotJson
```




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Make an example database

(MySQL 5.5.29) 127.0.0.1/fakeUsers/address

Structure Content Relations Triggers Table Info Query Table History Users Console

Search: id = Filter

id	firstname	lastname	address	city	state	zip	phone
58247	RENA	CLEMONS	841 pouter homesickne...	BRIGGS	ND	39846	9016020524
58248	GLENDA	DONALDSON	159 hoods retirant phar...	BARNETT	KY	51261	6582654119
58250	ANGELIQUE	BLACKBURN	591 Niamey devoutly ce...	ADAMS	AK	70267	1354790044
58258	LONNIE	BRAY	931 assiniboine roskild...	BRIGGS	DC	85490	1292886093
58286	FLAINE	BARRISH	046 jessie roadhouse	BARNETT	NY	56023	0780868124



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In-class assignment:
Replicate this functionality
in both languages

SEARCH USERS:
Firstname:

SEARCH Duck Duck Go:
Keyword:

This will search your
example database
and return results in
JSON

This will get results
from the Duck Duck
Go API in JSON form
and return them in
plaintext



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Lab 7

To each of your websites, add either a JSON Service, which will respond to HTTP requests with JSON,
or a JSON Reader, which will download information from someone else's service into your database.

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