



REST, JSON, and APIs

TOTAL POINTS 10

1. Who is credited with the REST approach to web services?

1 point

- ☒ Roy Fielding
- ☐ Vint Cerf
- ☐ Bjarne Stroustrup
- ☐ Daphne Koller
- ☐ Leonard Klienrock

2. Which of the following is true about an API?

1 point

- ☐ An API defines the header bits in the first 8 bits of all IP packets
- ☐ An API defines the pin-outs for the USB connectors
- ☒ An API is a contract that defines how to use a software library
- ☐ An API keeps servers running even when the power is off

3. Which of the following is a web services approach used by the Twitter API?

1 point

- ☐ CORBA
- ☐ XML-RPC
- ☒ REST
- ☐ SOAP

4. What kind of variable will you get in Python when the following JSON is parsed:

1 point

```
1 = { "id" : "001",  
2   "x" : "2",  
3   "name" : "Chuck"  
4 }
```

- ☐ A tuple with three items
- ☐ A list with six items
- ☒ A dictionary with three key / value pairs
- ☐ A list with three items
- ☐ A list of tuples

5. Which of the following is *not* true about the service-oriented approach?

1 point

- ☒ An application runs together all in one place
- ☐ Web services and APIs are used to transfer data between applications
- ☐ Standards are developed where many pairs of applications must work together
- ☐ An application makes use of the services provided by other applications

6. If the following JSON were parsed and put into the variable x,

1 point

```
1 = {  
2   "users": [  
3     {  
4       "status": {  
5         "text": "@jazzychad I just bought one ._.",  
6       },  
7       "location": "San Francisco, California",  
8       "screen_name": "leahculver",  
9       "name": "Leah Culver",  
10    },  
11    ...  
12  ]  
13 }
```

what Python code would extract "Leah Culver" from the JSON?

- ☒ x["users"][0]["name"]
- ☐ x[0]["name"]
- ☐ x->name
- ☐ x["users"]["name"]
- ☐ x["name"]

7. What library call do you make to append properly encoded parameters to the end of a URL like the following:

1 point

```
1 http://maps.googleapis.com/maps/api/geocode/json?sensor=false&address=Ann Arbor%  
2 2C+MI
```

- ☒ urllib.parse.urlencode()
- ☐ re.encode()
- ☐ re.match()
- ☐ urllib.urlicat()

8. What happens when you exceed the Google geocoding API rate limit?

1 point

- ☐ The API starts to perform very slowly
- ☐ You cannot use the API until you respond to an email that contains a survey question
- ☐ Your application starts to perform very slowly
- ☒ You cannot use the API for 24 hours

9. What protocol does Twitter use to protect its API?

1 point

- ☐ SHA1-MD5
- ☐ Java Web Tokens
- ☐ SOAP
- ☒ OAuth
- ☐ WS*Security
- ☐ PKI-HMAC

10. What header does Twitter use to tell you how many more API requests you can make before you will be rate limited?

1 point

- ☒ x-rate-limit-remaining
- ☐ x-request-count-down
- ☐ x-max-requests
- ☐ content-type

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