

JSON Activity – Solution

Your results should be similar to these.

```
>>> import urllib.request
>>> import json
>>> earthquake_url =
"http://earthquake.usgs.gov/earthquakes/feed/v1.0/summary/significa
nt_month.geojson"
>>> response = urllib.request.urlopen(earthquake_url)
>>> json_string = response.read().decode('utf-8')

>>> eq_parsed_json = json.loads(json_string)
>>> type(eq_parsed_json)
<class 'dict'>
>>> eq_parsed_json.keys()
dict_keys(['metadata', 'features', 'type', 'bbox'])
>>> eq_parsed_json['type']
'FeatureCollection'
>>> eq_parsed_json['metadata']
{'url':
'https://earthquake.usgs.gov/earthquakes/feed/v1.0/summary/signific
```

```
ant_month.geojson', 'title': 'USGS Significant Earthquakes, Past Month',  
'status': 200, 'count': 9, 'api': '1.5.6', 'generated': 1489028073000}
```

```
>>> title = eq_parsed_json['metadata']['title']
```

```
>>> title
```

```
'USGS Significant Earthquakes, Past Month'
```

```
>>> quakelist = eq_parsed_json['features']
```

```
>>> len(quakelist)
```

```
9
```

```
>>> quake1 = quakelist[0]
```

```
>>> type(quake1)
```

```
<class 'dict'>
```

```
>>> quake1.keys()
```

```
dict_keys(['geometry', 'id', 'properties', 'type'])
```

```
>>> print(json.dumps(quake1, indent=2))
```

```
{
```

```
  "properties": {
```

```
    "sig": 613,
```

```
    "felt": 3,
```

```
    "ids": ",us1000876f,pt17064051,at00omd5zx,",
```

```
    "updated": 1488816451040,
```

"status": "reviewed",
"alert": "green",
"rms": 0.99,
"tz": 600,
"net": "us",
"type": "earthquake",
"dmin": 3.326,
"sources": ",us,pt,at,",
"nst": null,
"magType": "mww",
"mmi": 6.06,
"cdi": 8.6,
"code": "1000876f",
"mag": 6.3,
"url":
"https://earthquake.usgs.gov/earthquakes/eventpage/us1000876f",
"title": "M 6.3 - 32km NW of Kandrian, Papua New Guinea",
"tsunami": 1,
"gap": 17,
"place": "32km NW of Kandrian, Papua New Guinea",
"types": ",dyfi,geoserve,impact-link,losspager,moment-tensor,origin,phase-data,shakemap,",

```
"detail":  
"https://earthquake.usgs.gov/earthquakes/feed/v1.0/detail/us1000876  
f.geojson",  
"time": 1488754073310  
},  
"geometry": {  
"type": "Point",  
"coordinates": [  
149.353,  
-5.999,  
31.07  
]  
},  
"type": "Feature",  
"id": "us1000876f"  
}
```