07-1 Fetching Web Pages
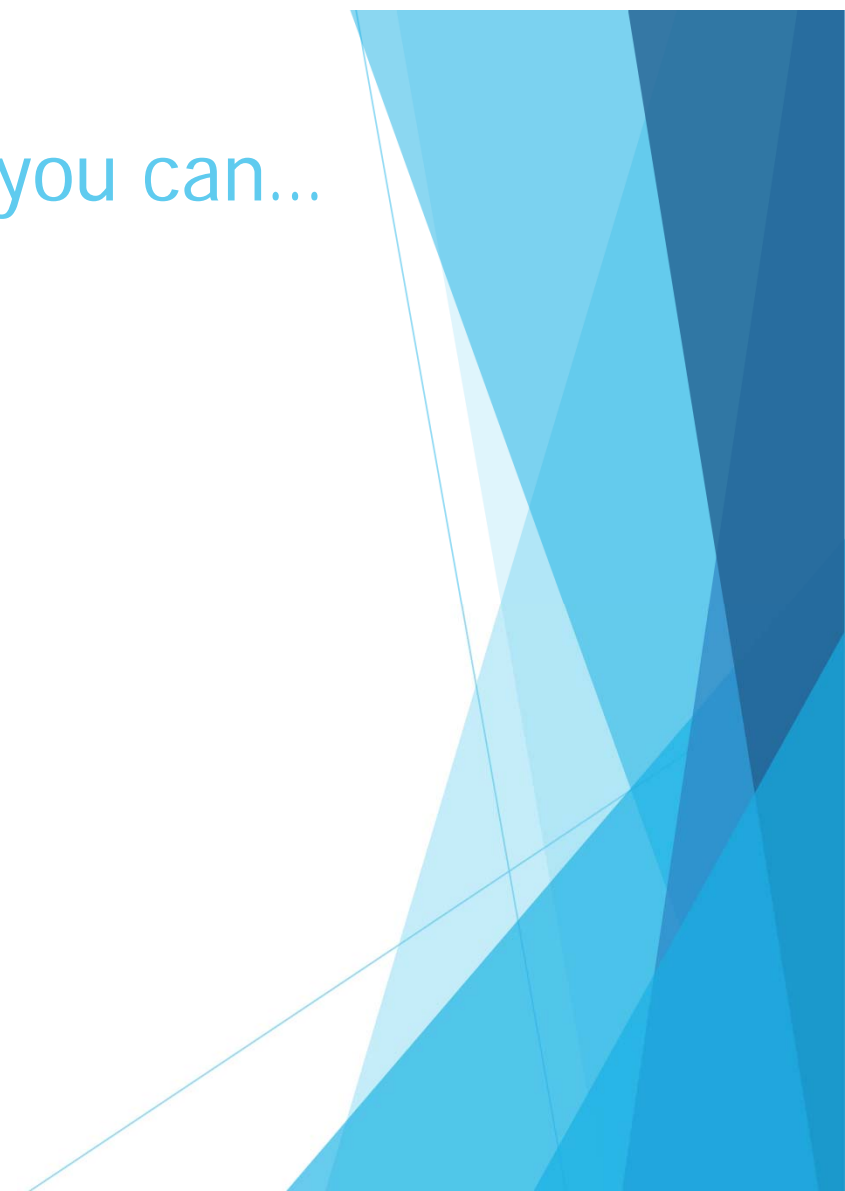
When your Bone is on the web, you can…

- Email
- Tweet
- Get current weather, etc.

Fetching a Web Page

python

```
# sudo pip3 install requests
import requests
# Get web page
url = "http://google.com"
r = requests.get(url)
if(r.status_code==200):
    print("headers: ", r.headers)
    print("text: ", r.text)
    print("json: ", r.json())
else:
    print("status_code: ", r.status_code)
```

JavaScript

```
# sudo npm install -g request
var request = require('request');
// Get web page
var url = "http://google.com";
request(url, function(err, res, body) {
    if(err) {
        console.log("err wunderground: " + err);
    }
    console.log(body);
    var json = JSON.parse(body);
});
```

Weather - python

```python
import requests

# Get outdoor temp and forecast from wunderground

urlWeather = "http://api.wunderground.com/api/ec7eb641373d9256/conditions/forecast/q/IN/Brazil.json"

r = requests.get(urlWeather)

if(r.status_code==200):
    weather = r.json()
    print("Temp: ", weather['current_observation']['temp_f'])
    print("Humid:", weather['current_observation']['relative_humidity'])
    print("All : ", weather['forecast']['simpleforecast']['forecastday'])
else:
    print("status_code: ", r.status_code)
```

Weather - JavaScript

```javascript
var request = require('request');

// Get outdoor temp and forcast from wunderground

var urlWeather =
"http://api.wunderground.com/api/ec7eb641373d9256/conditions/forecast/q/IN/Brazil.json";

request(urlWeather, function(err, res, body) {

    if(err) {

        console.log("err wunderground: " + err);

    }

    var weather = JSON.parse(body);

    console.log("Temp:%s, lo:%s, hi:%s",

            weather.current_observation.temp_f,

            weather.forecast.simpleforecast.forecastday[0].low.fahrenheit,

            weather.forecast.simpleforecast.forecastday[0].high.fahrenheit

            );

});
```

Trapping Errors

```python
import requests
import sys
urlWeather =
"http://api.wunderground.com/api/.../q/IN/Brazil.json"
try:
    r = requests.get(urlWeather)
    if(r.status_code==200):
     weather = r.json()
        print("Temp: ", weather['current_observation']['temp_f'])
    else:
        print("status_code: ", r.status_code)
except:
    print("Unexpected error:", sys.exc_info()[0])
```