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XLoBorg - Motion and direction sensor for your Raspberry Pi

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Main Examples

Download instructions here.

There are some example scripts using the XLoBorg library, provided both as a guide and an easy way to access the XLoBorg directly from the terminal.

- Full example of how to talk to XLoBorg from Python:
  ```
  ./XLoBorg.py
  ```
  This is also the main library used by the other examples
- Get the accelerometer forces:
  ```
  ./ReadAccelerometer.py
  ```
- Get the magnetometer raw flux readings:
  ```
  ./ReadCompassRaw.py
  ```
- Get the magnetometer temperature:
  ```
  ./ReadTemp.py
  ```

The three 'Read' examples are suggested for beginners, they demonstrate how to use the provided library simply and serve as a good starting point for your own code.

ReadAccelerometer.py

Reading the accelerometer forces.

```
 1  #!/usr/bin/env python
 2  # coding: latin-1
 3
 4  # Load the XLoBorg library
 5  import XLoBorg
 6
 7  # Tell the library to disable diagnostic printouts
 8  XLoBorg.printFunction = XLoBorg.NoPrint
 9
10  # Start the XLoBorg module (sets up devices)
11  XLoBorg.Init()
12
13  # Read and display the raw magnetometer readings
14  print 'X = %+01.4f G, Y = %+01.4f G, Z = %+01.4f G' % XLoBorg.ReadAccelerc
```

ReadCompassRaw.py

Reading the raw magnetometer flux.

```
 1  #!/usr/bin/env python
 2  # coding: latin-1
 3
 4  # Load the XLoBorg library
 5  import XLoBorg
 6
 7  # Tell the library to disable diagnostic printouts
 8  XLoBorg.printFunction = XLoBorg.NoPrint
 9
10  # Start the XLoBorg module (sets up devices)
11  XLoBorg.Init()
12
```

```
13   # Read and display the raw magnetometer readings
14   print 'mX = %+06d, mY = %+06d, mZ = %+06d' % XLoBorg.ReadCompassRaw()
```

ReadTemp.py

Reading the magnetometer temperature.

```
1    #!/usr/bin/env python
2    # coding: latin-1
3
4    # Load the XLoBorg library
5    import XLoBorg
6
7    # Tell the library to disable diagnostic printouts
8    XLoBorg.printFunction = XLoBorg.NoPrint
9
10   # Start the XLoBorg module (sets up devices)
11   XLoBorg.Init()
12
13   # Read and display the temperature
14   print '%+02d°C' % (XLoBorg.ReadTemperature())
```

For more details on the library, plus a more detailed example see here

user examples

Please post any examples you would like to share with others here on the forum.

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