IoT Weatherstation  
  
Sensors used:  
- Environmental sensor (or separate temperature one)  
- LUX Light  
- Humidity, etc  
  
Real Life Purpose:  
Can be stationed on a balcony, yard, terrace, sauna cabin, wherever prefered. It monitors the temperature, humidity, light (to further clarify when the station is in the shade, amount of sunlight)  
  
Statistical Analysis  
Some measurements could be made, especially since we have the idea to also display the local weather from the OpenWeatherMap API. So there could be a comparison to data from the city weather station, as well as the local PI weatherstation, for example how much the temperature differs when in contact with direct sunlight, or left in the shade, or just to see temperature differences within your terrace or yard versus open air.   
  
Application  
Sending the data from the raspberry PI to a local server, where the data is stored. This data is then visualized on a web application, possibly using graphs and charts (google charts is an idea). The idea is also to implement the OpenWeatherMap API to offer comparison with current weather data from two different sources.