**7.6 Team Assignment: Deliverable #1 due 4/17**

**Prototype Idea:**  
Ambient Plant Pot

**Questions we want to answer with prototyping:**

* What kind of information will user attain from utilizing plant data?
* What kind of sensors are needed?
* What colors and settings do we want to use to represent which indicators of plant status?
  + (blue = hydrated? Purple = ammonia poisoning? Yellow = dehydrated?)
* What uses are different types of nitrates to plant and how can we incorporate that?
* Will this ambient device work for all types of plants?
* Could we add lifetime of plant? Clock interface with stored data of plant state throughout time?

**Possible Data Sources:**

* Hydration levels of plant
* Nitrates in fertilizer
  + NO3
  + NH3
  + NH4
  + others…()

**Sensors:**

* Capacitance
* Tensiometer
* Time Domain Reflectometry
* Ion-selective electrodes
* Optical sensor
* Need to research more types of sensors for nitrogen content and fertilizer