## Index **Current Conditions**

- 1. Shortcut to index
- 2. Navigation menu
- 3. Title with current pi location and sensor read time
- 4. Current sensor data





Current data from: pi 1

Located at Josh

Last read at 12:00

**Drybulb:** 

20 °C

4

**Relative Humidity:** 

67%

RH for 1 kPa VPD

57%

**Dewpoint** 

13 °C

Vapor Pressure Deficit: 0.78 kPa

Light:

317 lux

## Index

### Yesterday's Data

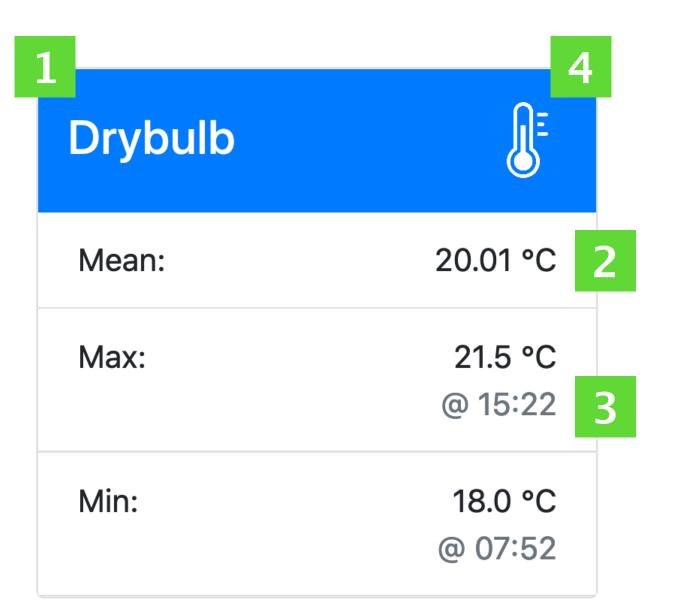
- 1. Data Type
- 2. Data
- 3. Time of min/max (in grey)
- 4. Tap the icon on each card to show an explanation of each metric





### Yesterday's Indoor Conditions

2020-11-25 Tap the icon on each card for a description



Humidity	<b>%</b>
Mean:	70%
Max:	75% @ 04:43
Min:	64% @ 18:56

## Index Charts

- 1. Tap the left or right side of the chart to scroll through the different charts (dry bulb, relative humidity, VPD, Lux)
- 2. 3 day charts are optimized for mobile screens
- 3. Rotate your phone to landscape or view on laptop/tablet for the full 7 day chart

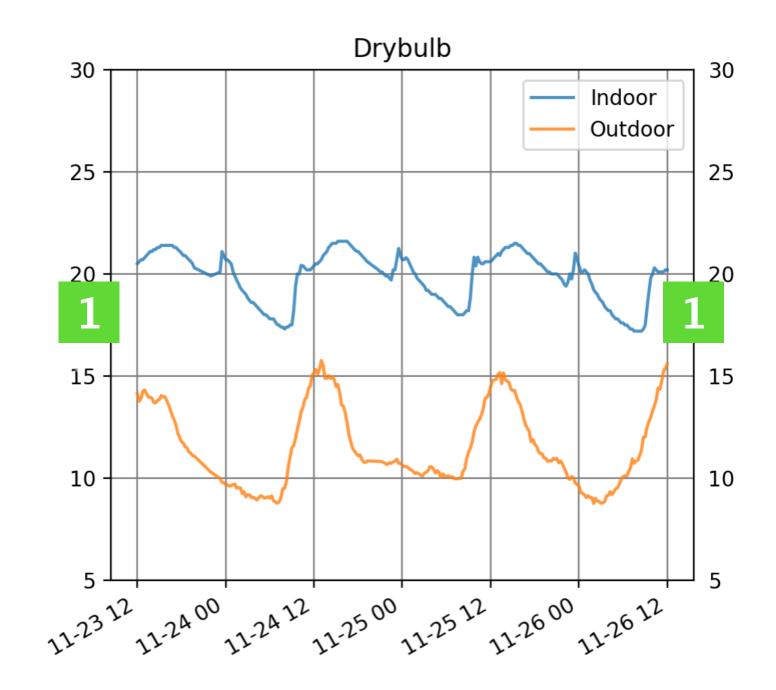




Mean:	238.47 lux
Max:	367.1 lux @ 10:45

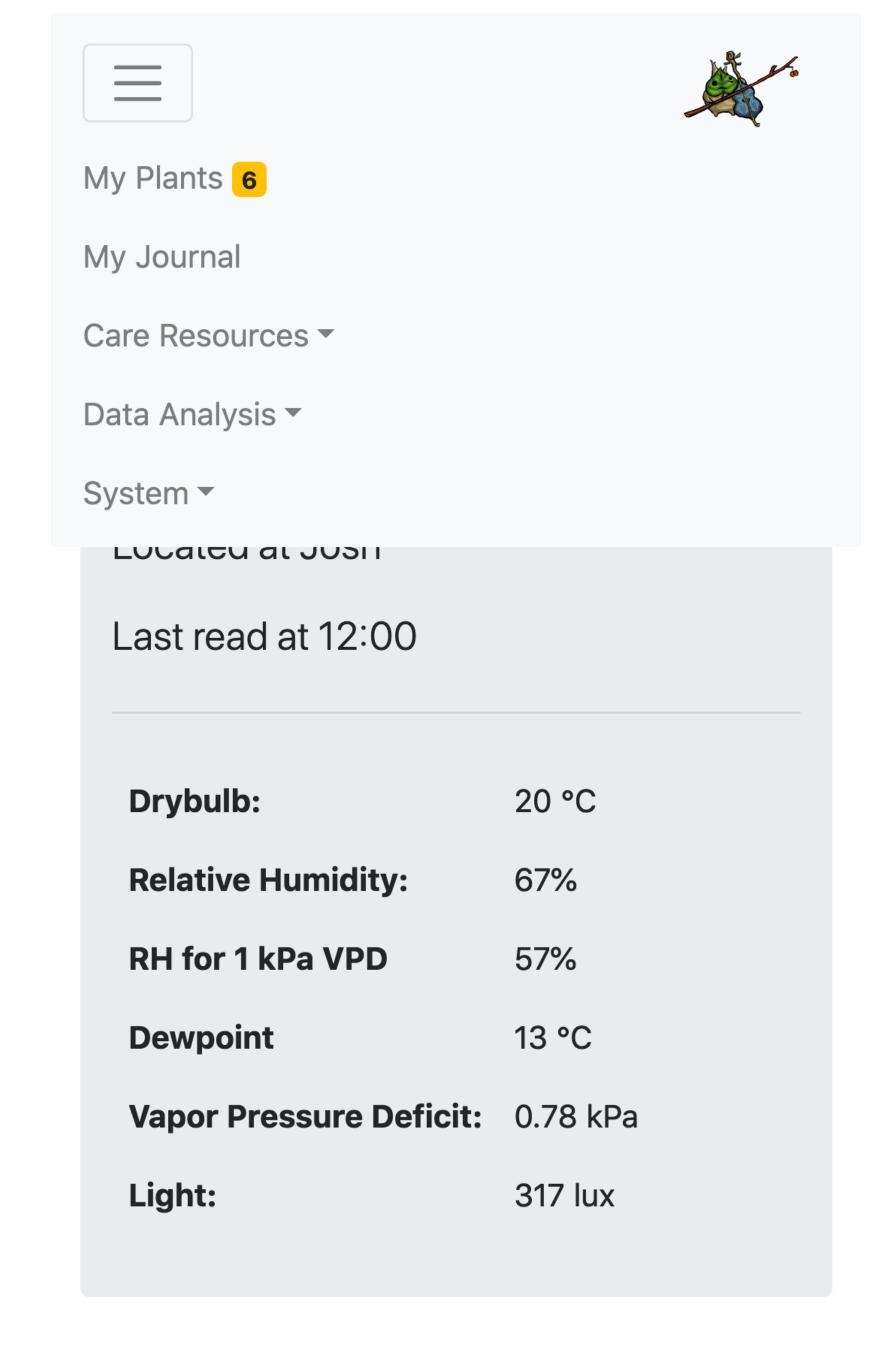
#### Last 3 Days

Tap the left and right edges to scroll
Rotate phone to landscape or view on desktop for 7 day chart



## Navbar How to get around

- 1. My Plants manage plants being tracked by the system
- 2. **My Journal** add, view and manage journal entries for your plants
- 3. Care Resources Mostly under construction at the moment, but come here to add missing plant species
- 4. Data Analysis dig deeper into the data collected by your pi's sensors
- 5. **System** Change system settings and view logs for troubleshooting

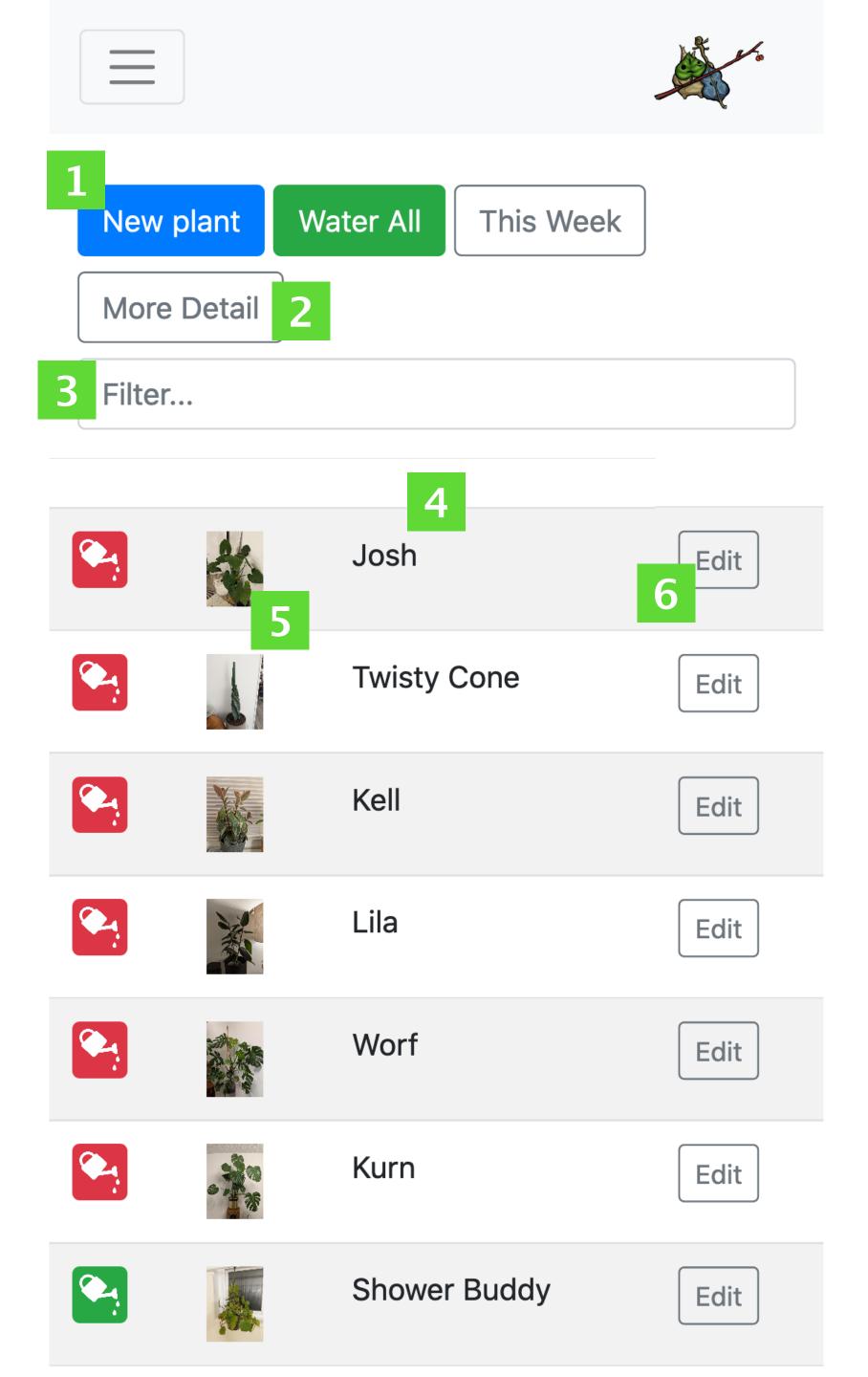


### Yesterday's Indoor Conditions

## My Plants

#### Track and manage your plant collection

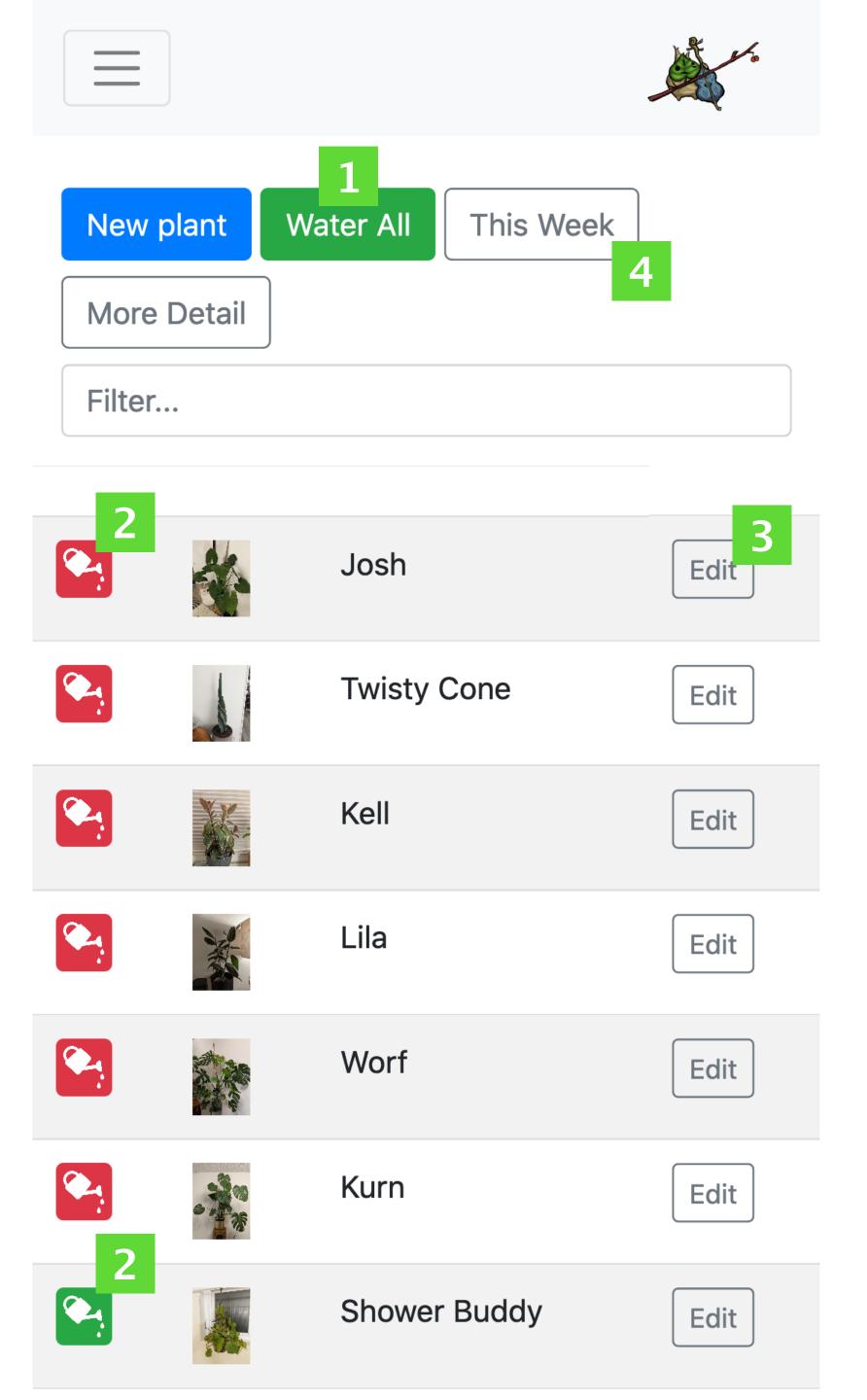
- 1. Add a new plant to your collection
- 2. Links to the expanded my plants table, overview graphs, graveyard/list of sold plants
- 3. Filter the table to find specific plants
- 4. Table of basic plant collection info (rotate phone or view on tablet/ laptop for more info)
- 5. Tap the thumbnails to view enlarged plant photos
- 6. Edit this plant



## My Plants – Watering

### Keep those plants moist and happy

- 1. Water all plants in your collection
- 2. Water this plant
  - 1. Red = Water now
  - 2. Yellow = Watering day coming soon
  - 3. Green = Plenty of time left!
  - 4. Grey = Watering Disabled (ignore)
- 3. If you make a mistake, edit the "last watered" field
- 4. Show 7 day look-ahead (see next slide)



# Watering Calendar 7 day look-ahead



Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday
Josh Twisty Cone Kell Lila Worf Kurn					Shower Buddy  Doc Brown  Phineas  Ferb  Ned  Rhy  Crowley  Lwaxana	Victreebel	

# Add New Plant Some key notes below

- 1. Names must be unique, but feel free to do "Fiddle 1"
- 2. Add new species in Care Resources -> Plant Requirements Database
- 3. Leaf temp offset leave at zero for now, but will come in handy later;)
- 4. Pictures are optional





#### Add new plant to collection

Unique Name			
Species	none		
Location			
Purchased From			
Purchase Date	11/26/2020		
Watering Schedule (days)	7		
Last Watered	11/26/2020		
Substrate	Flowering house pla		
Pot Size (in)	4.00		
Leaf Temperature Offset (deg C)	0.00		
Upload Browse No Picture	o file selected.		
Add			

## Plant Requirements Only sort-of useful right now

- 1. Find plant species included in the requirements database here
- 2. Add new species
- 3. Follow the source links at the top for great care info from UofG Ext.!
- 4. This is sort of WIP but will be useful in future updates



#### **New Requirement**

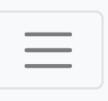
Info from guidance by Prof. Bodie V. Pennisi, published by the UofG Ext.

ID	botanical_name	common_name	light_categor
1	Abutilon hybridum	Flowering Maple	1.0
232	2 Abutilon Flowering Ma hybridum		1.0
2	Acalypha hispida	Chenile Plant	1.0
233	Acalypha hispida	Chenile Plant	1.0
3	Achimenes hybrids	Magic Flower	2.0
234	Achimenes hybrids	Magic Flower	2.0
4	Acorus calamus	Sweet Flag	2.5
235	Acorus calamus	Sweet Flag	2.5
5	Acorus gramineus	Miniature Sweet Flag	2.5
236	Acorus gramineus	Miniature Sweet Flag	2.5

## Data Analysis

More opportunities to go overboard

- 1. My Plants Overview Nerdy charts including a plant timeline, pot sizes, and others
- 2. Stats By Plant View all-time data for each plant/location
- 3. Raw SQL query the databases to view more data and troubleshoot
- 4. Forecasting and Charting coming in future updates!





My Plants 6

My Journal

Care Resources ▼

Data Analysis ▼

My Plants Overview

Stats by Plant/Location

Raw SLQ Query

Forecasting

Charting

System ▼

RH for 1 kPa VPD

**Dewpoint** 13 °C

Vapor Pressure Deficit: 0.78 kPa

Light: 305 lux

Yesterday's Indoor Conditions

57%

## System Settings Set up your datalogger

- 1. Name your pi
- 2. Enter your US timezone
- 3. Change to fahrenheit (bleh)
- 4. Change your pi's location
- 5. API key free account needed for outdoor weather data
- 6. Lat/Long also needed for outdoor weather
- 7. Add/remove sensors from the system
- 8. Add location tracking something other than a plant? Maybe you have a greenhouse?





#### **Change System Settings**

Name	name			
Time Zone	US/Pacific	-		
Temperature Scale	С	-		
Current Location	Josh			
Ideal VPD	1	0		
OpenWeatherMap API Key	key			
Latitude	00.000	©		
Longitude	000.0000	0		
Temperature/Humidity Sensor				
✓ Light Sensor				
☐ Soil Moisture Sensor				
Update				
Add new non-plant location				