

plot Design

plots **greenerthumb** JSON messages from STDIN.

UI

plot will convert input messages to points on a line-graph. The expected message format is:

```
{
  "name": <message_name>,
  "timestamp": <timestamp>,
  <name>: <value>,...
}
```

Messages don't necessarily need to be **greenerthumb** messages. They just need to fit this format.

Each non-ID and non-timestamp field will become a line in the graph. The name of the line will be determined by concatenating the **<message_name>** and the field's **<name>**. The line's will be assigned unique random colors which will be displayed in a legend with the message name's on the right side of the plot.

Each line will be overlayed to allow trend comparison. To do this ,each line will have units normalized to eachother. The x-axis will have units of hours scaled to the period of all the received messages.

If received messages have the same timestamp, the newest message will overwrite the older messages.

Program

```
./plot
```

Example

```
./plot
```

```
< {"name": "Soil", "timestamp": 0, "Moisture": 0.37}
< {"name": "Air", "timestamp": 3600, "Temperature": 84, "Humidity": 0.54}
< {"name": "Soil", "timestamp": 3600, "Moisture": 0.35}
< {"name": "Air": "timestamp": 7200, "Temperature": 82, "Humidity": 0.51}
```

This will plot 3 lines labelled “Soil Moisture”, “Air Temperature”, and “Air Humidity”. Each will have 2 points. The “Soil”-line will start at hour 0 and

finish at hour 1. The “Air”-lines will start at hour 1 and finish at hour 2. The entire plot will occupy 2 hours.