

SIT123 Online Seminar

Data Preparation with Tableau

Week 7

Before we start...

CHECKPOINT: Have you started working on your project?

- Many students have emailed me about their project ideas and received feedback.
- **If you have not done so yet, please contact me or your tutor ASAP and let me know what you plan to do.**

Before we start...

Remember ...

- the Project is worth 30% of your marks
- The due date is coming soon! 16 Sep 9 am
- No extensions unless there are circumstances beyond your control

Before we start...

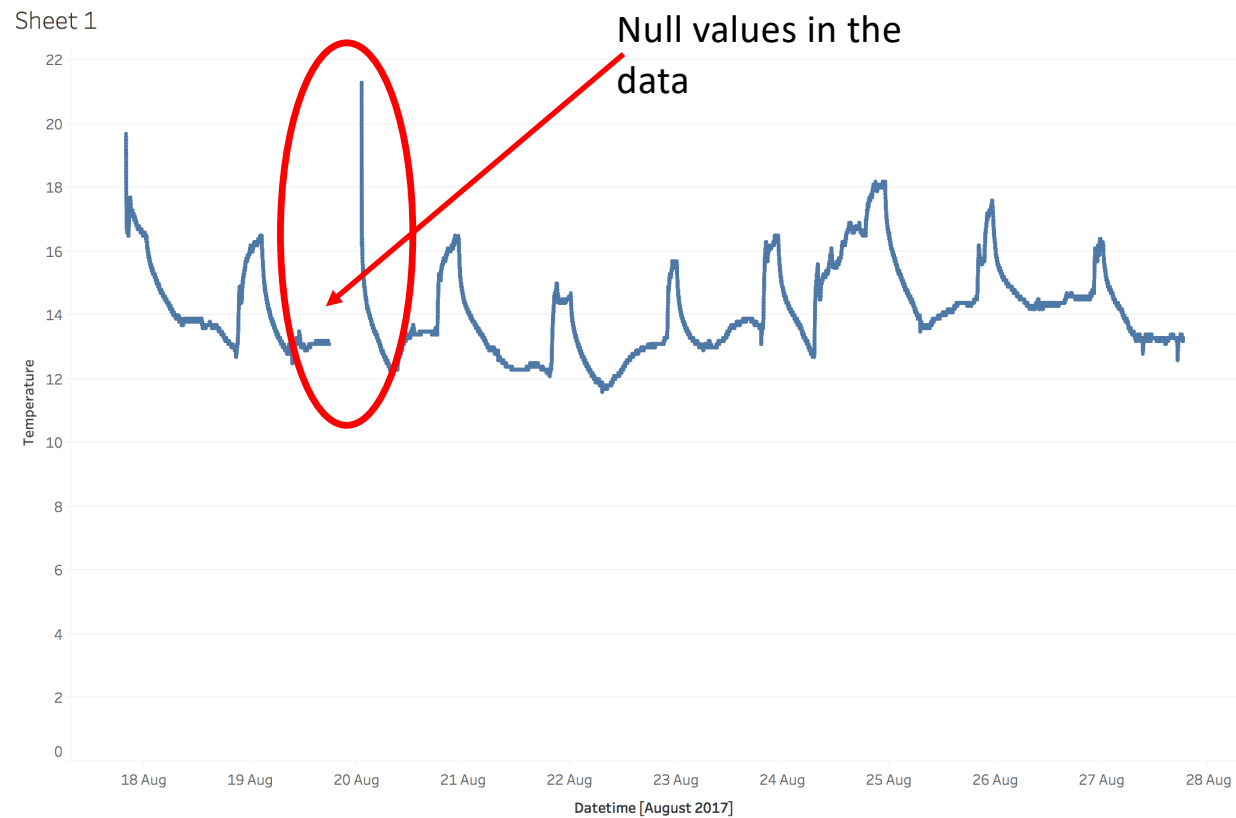
Remember ...

- You need to set up your Arduino + Sensors (or other hardware)
- get the data collection code working
- collect data for at least 3 days
- clean the data
- do your analysis, visualization ... AND
- Create the poster!

-> These will take you at least 2-3 weeks to complete. So you need to start NOW!

OK ... back to Tableau 😊

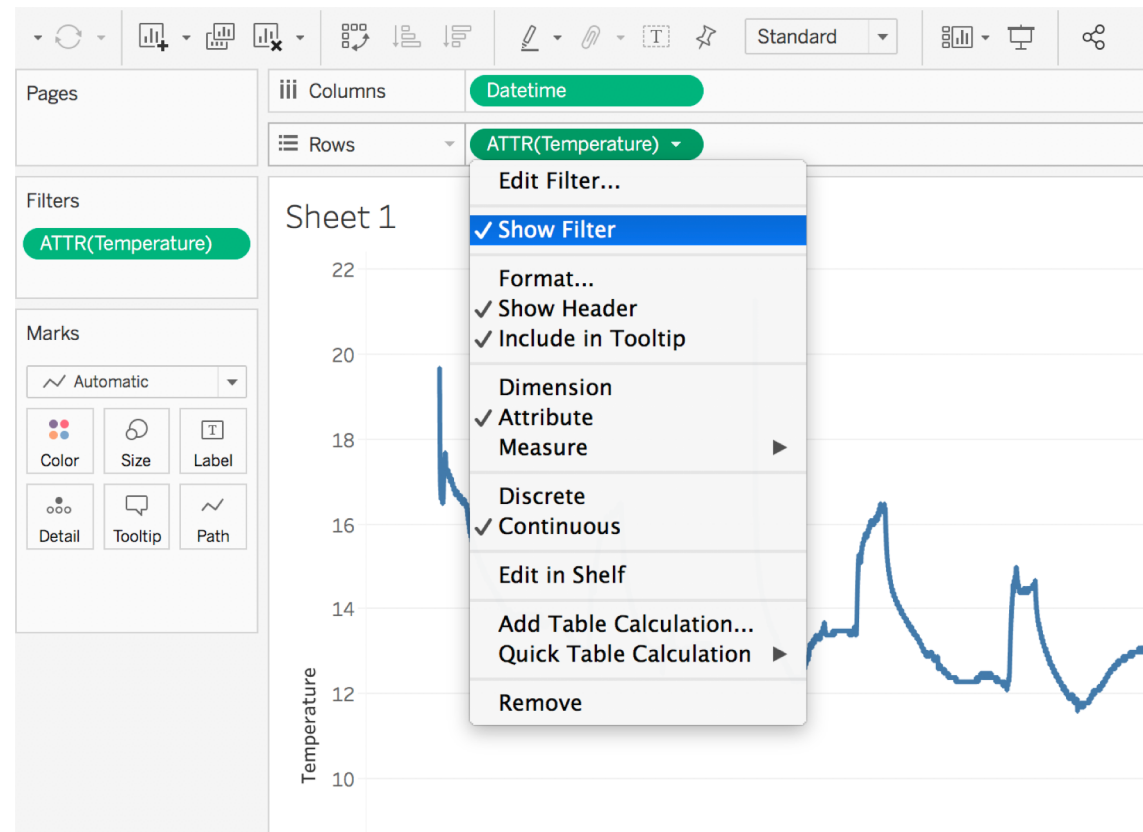
When you have NULL or empty values



The trend of Temperature as an attribute for Datetime. The view is filtered on Temperature as an attribute, which keeps all values.

How to clean using Tableau?

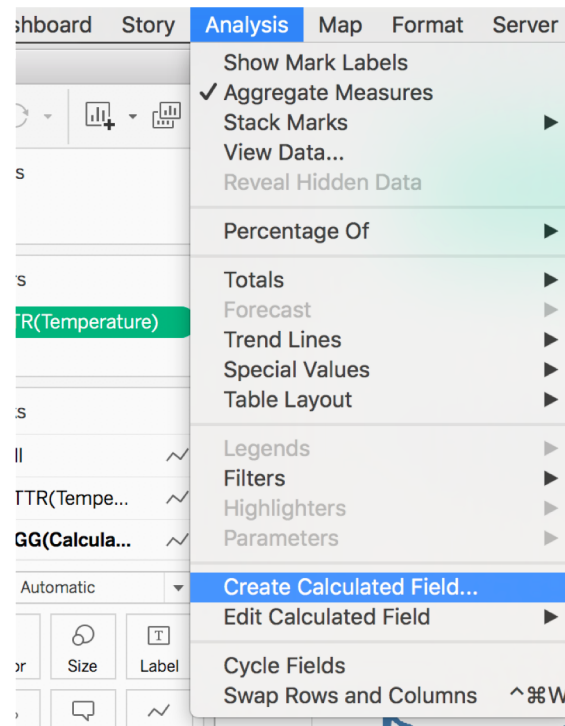
- Use the filter



Replacing Null values with default values

<https://www.youtube.com/watch?v=KSIVZrQmCF4&t=117s>

Use 'calculated fields'



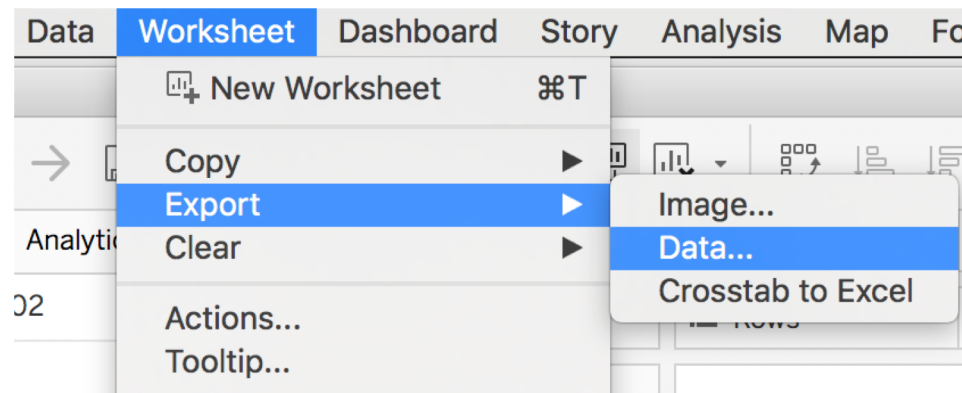
Replace NULL with a a number

zn(ATTR([Temperature]))//replaces NULL with 0

IFNULL(ATTR([Temperature]),0)

IFNULL(ATTR([Temperature]),5) //replaces NULL with 5

Export filtered data



- Save in a new .csv file

Source data

https://drive.google.com/open?id=0B-xsQS6xee_bR0xneUpIZVBzbWc

- More than one week worth of light, temperature, humidity, motion data with timestamps.
- You can download and try to see how to remove the NULL values
- Can you see any trends?
- What insights can you gain?