



భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్
भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

Biostatistics BT2023

Lecture 3 : plotting and DATA visualization

Himanshu Joshi 12 August 2022



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Extra points

Keyboard's marking keys

Website making

Revision from previous lecture

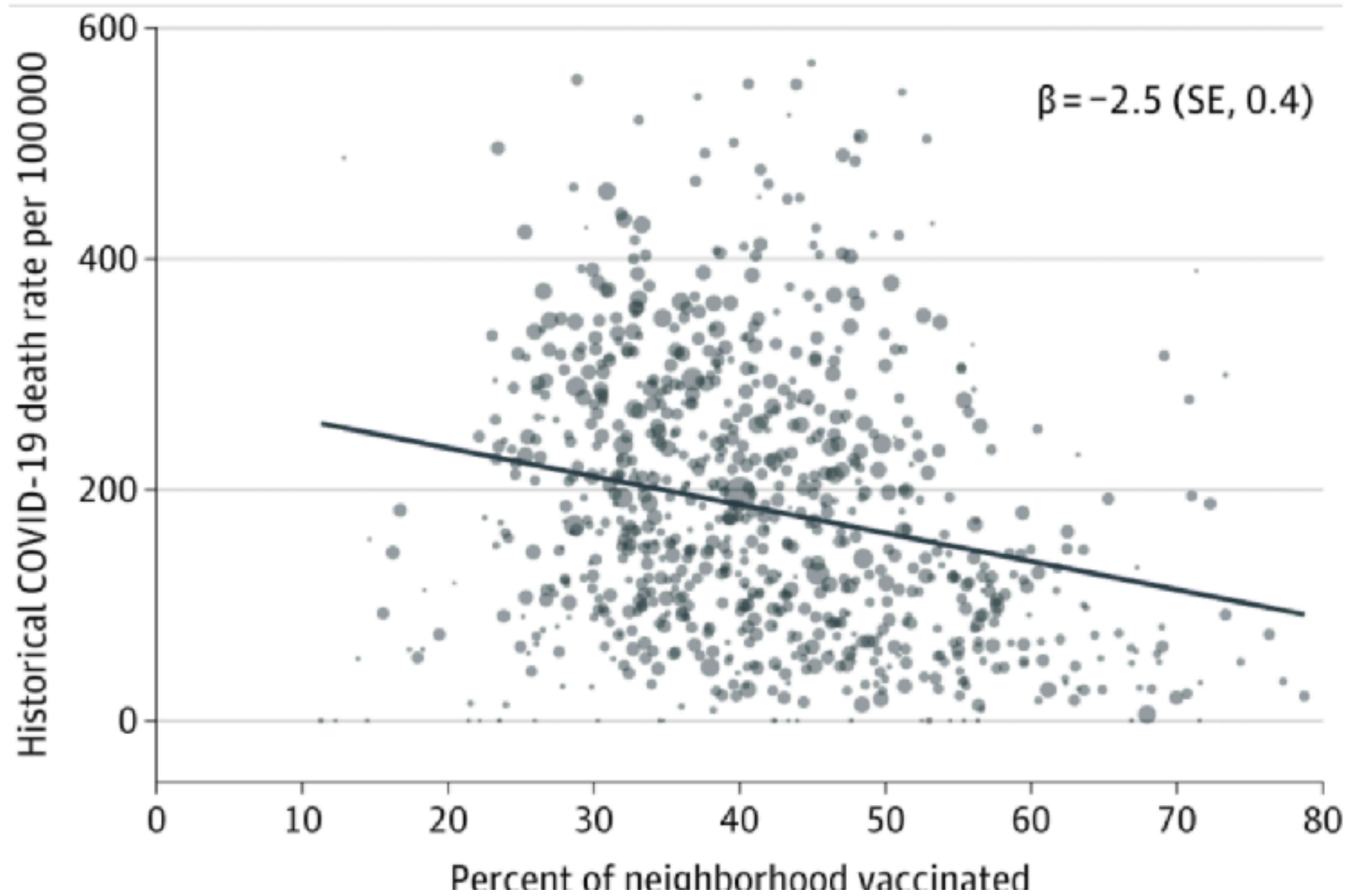
Bar plot

Pie chart

Line plot



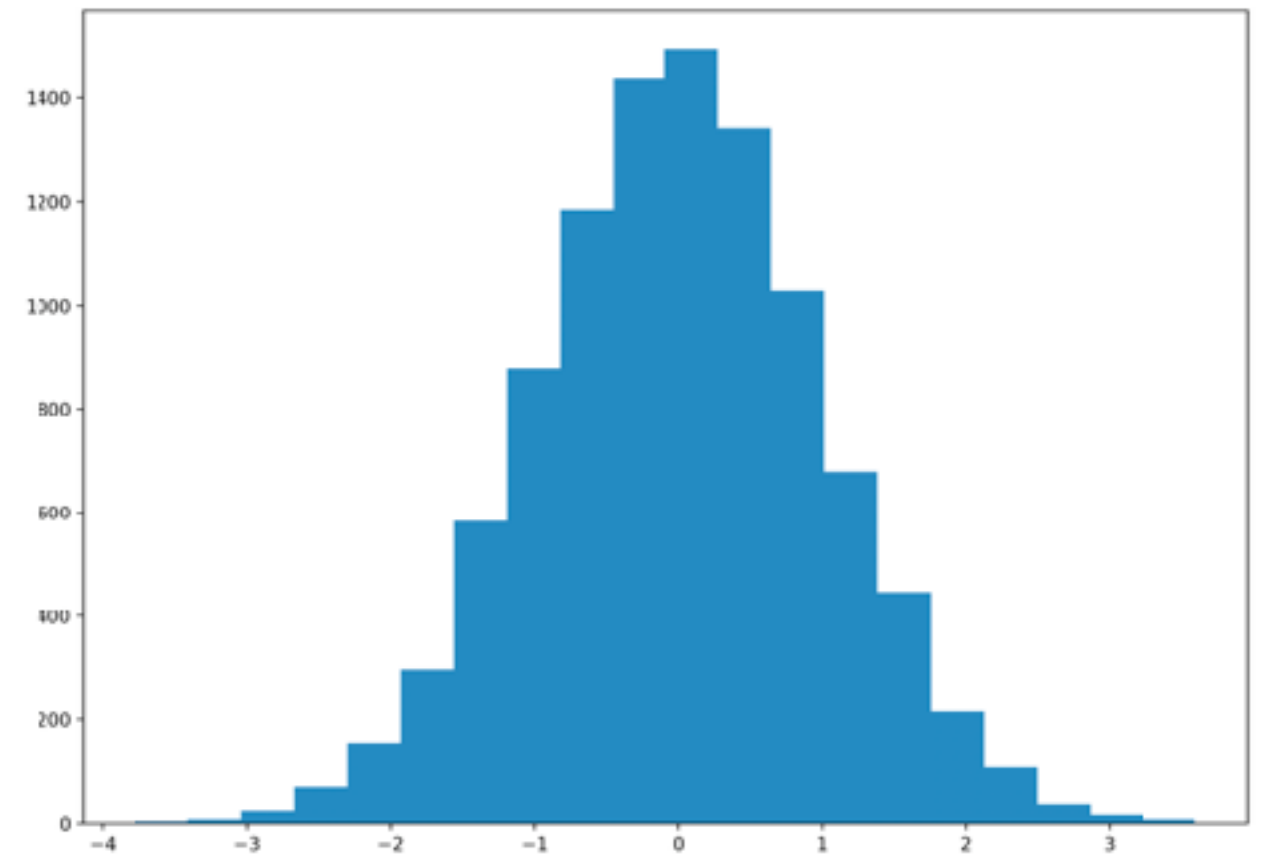
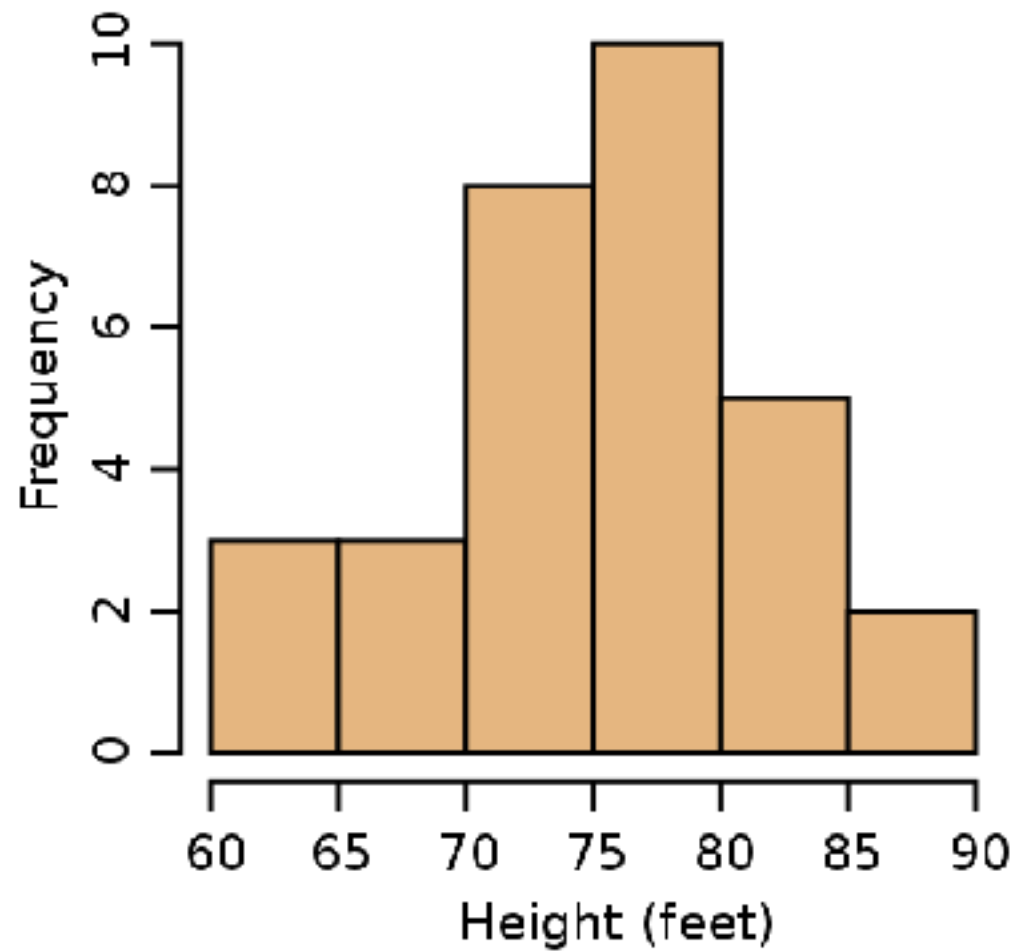
Scatter plot





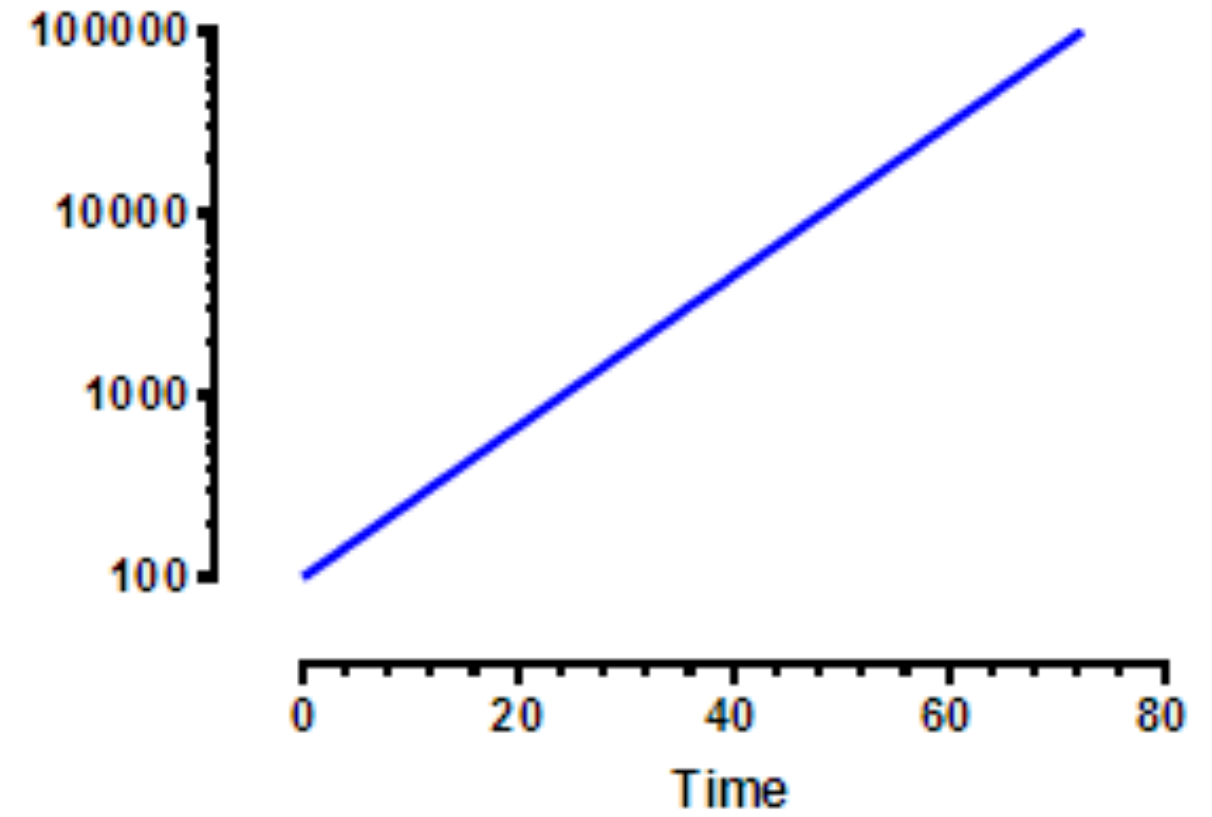
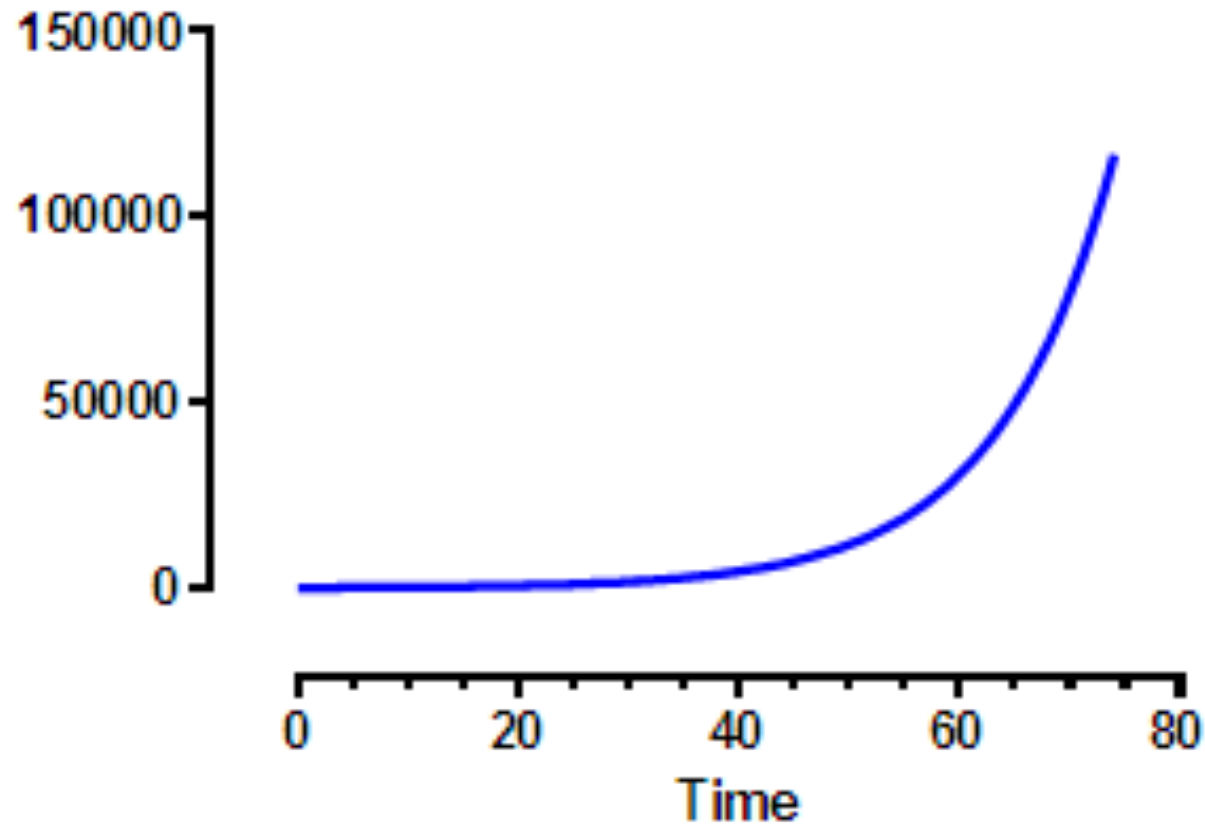
Histogram

Heights of Black Cherry Trees





Log log scale



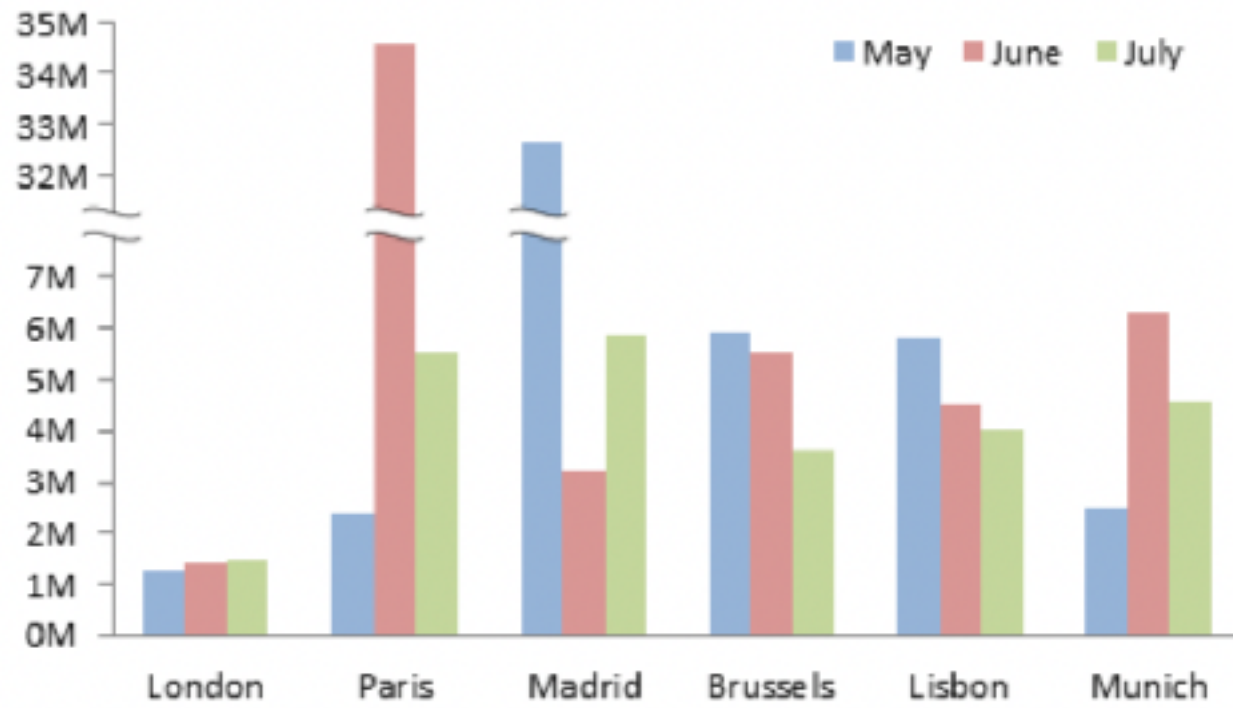
Some plotting software

- GNUPLOT
- MATLAB
- MATHEMATICA
- XMGRC
- ORIGIN
- PYTHON (MATPLOTLIB PYPLOT)

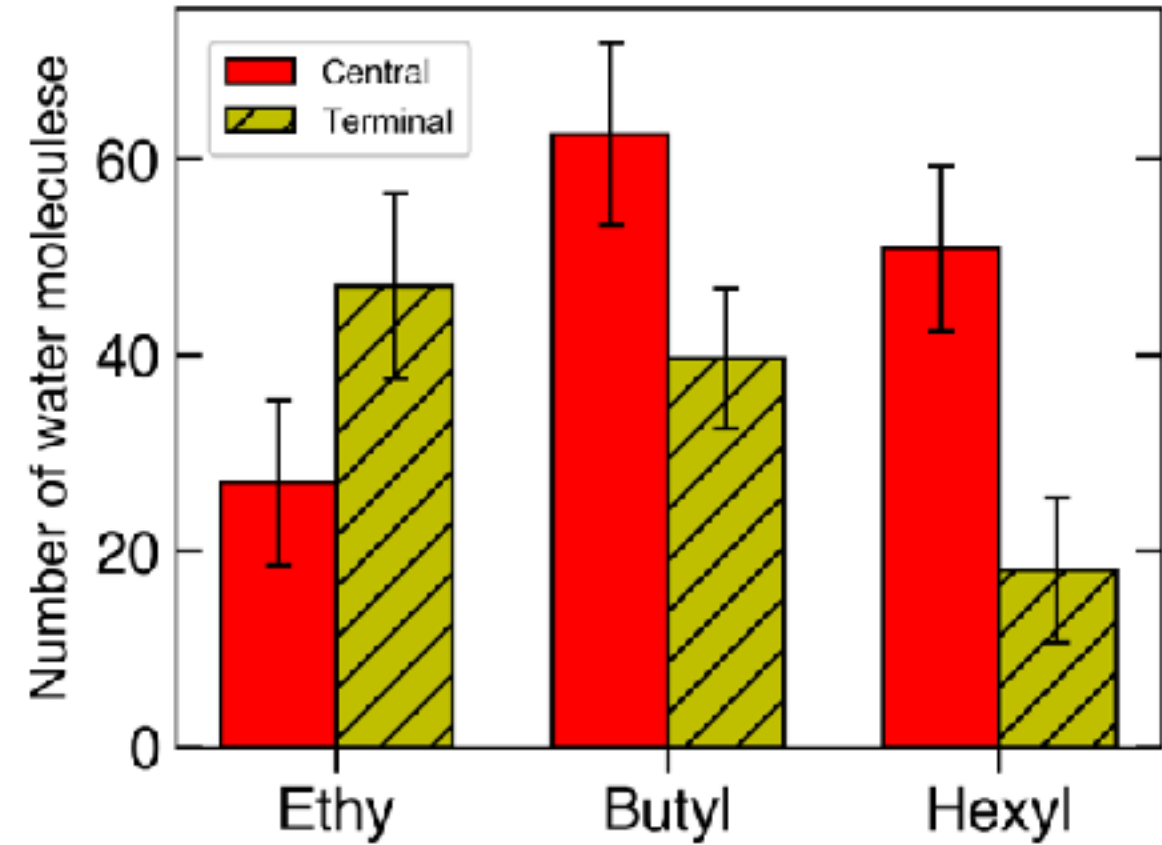


Some more about bar plot

Broken axis



Error bars





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Arithmetical mean

$$y=ax$$

$$y=a+x$$

$$y=a+cx$$



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Next Class

2:30 PM Friday, 19 August 2022

Measurements of central tendencies