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Young Won Lim 3/14/17

Linear – Linear Scale



Linear – Log Scale



Log – Linear Scale



Log – Log Scale



Logarithmic and Semi-logarithmic Plots



Linear Scale Plot Example



Data points

- 0
- 1 • 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 20
- 30
- 40
- 50 • 60
- 70
- 80
- <u>90</u>
- 100

* A picture from Wikipedia

Semi-logarithmic Scale Plot Example (1)



* A picture from Wikipedia

Semi-logarithmic Scale Plot Example (2)



* A picture from Wikipedia

Semi-logarithmic Scale Plot Example (3)



* A picture from Wikipedia

Slope in a Logarithmic Plot (1)



Slope in a Logarithmic Plot (2)

 $(\log(x_2), \log(y_2))$ \bigcirc $g(x_1), log(y_1)$ $\frac{\log(y_2/y_1)}{\log(x_2/x_1)} = 2$ $\log(y_2/y_1) = \log(x_2/x_1)^2$ $\left(\frac{y_2}{y_1}\right) = \left(\frac{x_2}{x_1}\right)^2$

References

- [1] http://en.wikipedia.org/
- [2] https://upload.wikimedia.org/wikiversity/en/6/6d/2.C.Optical_Sensor.pdf