# Advice on Reports

CSE 326
Data Structures

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# Graphing



Clear title
Clear legend
Normalized Instructions
Connect sample points
Label axes
Show units
Use log scale only if range is large

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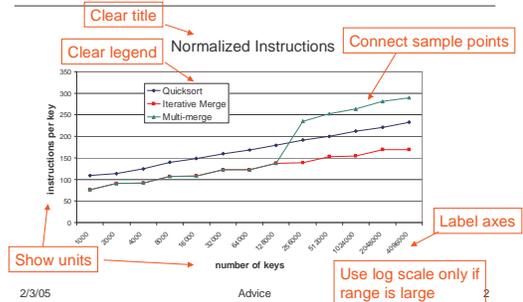
# Graphing

- For multiple graphs only plot lines in the same units.
  › Don't plot L1 and L2 cache misses on the same graph.
- Always have a caption, or short paragraph describing what the graph is showing.

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# Equally Spaced Points

- Linear Scale. k points in the interval [a,b].  Choose $x = (b-a)/(k-1)$.
  › $a, a+x, a+2x, …, a+(k-1)x = b$
  › $a+(i+1)x - (a + ix) = x$
- Log Scale. Choose $x = (b/a)^{1/(k-1)}$
  › $a, ax, ax^2, …, ax^{k-1} = b$
  › $\log ax^{i+1} - \log ax^i = \log x$

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# Methodology

- List the main points
  › Programming Language
  › Complier, version number and options
  › Operating system, version number
  › Computer, with any details about speed, memory and cache sizes
  › Tools used, CacheGrind with version number and parameter settings
  › How many data points
  › How many samples per data point
  › How the "average" was taken

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# Methodology

- Mention any specific issues to the project. Explain why certain decisions were made.
- Do not do stream of consciousness description of your thinking.  "Just the facts Ma'am."