Technical Writing & Presenting 2.0

CSCI 373
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Labels and Citations

- Labels:
 - \label {label name} and \ref{label name}
- Use ~:
 - In Smith and Jones∼\cite{2014SmithJones}, we see that ...
 - In Section~\ref{intro}, ...
 - In Figure~\ref{fig1}, ...

Figures

- Figures:
 - Clearly labeled: Units,
 legend, title.
 - Captions: Should explain the figure in summary.
- Spreading a figure across two columns.

```
Use the figure* environment. So instead of
\begin{figure}[ht] % I typically use ht
\centering
\end{figure}
you should use
\begin{figure*}[ht]
\centering
\end{figure*}
This also works for tables (i.e. table*).
```

Writing Rules

Rule #6:

- Use pictures, charts and graphs,
- But keep in mind #4 (Simplicity).

Rule #7: Use examples to explain complex ideas.

Rule #9: Use:

- Headings (Chapter, Section, etc.).
- Bulleted Lists.
- Numbered lists.

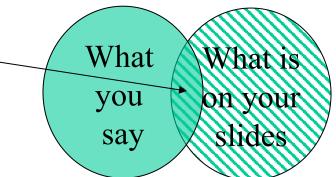
to provide structure, clarity and conciseness to your document.

Rule #10: Provide guidance:

- Table of Contents.
- List of Figures, list of Tables.
- Index and Glossary.
- Abstract.
- Note: LaTeX provides these!

Slide Guidelines

- 1. Let us read the data.
- 2. Use diagrams, charts, figures.
- 3. Intersection: minimal.



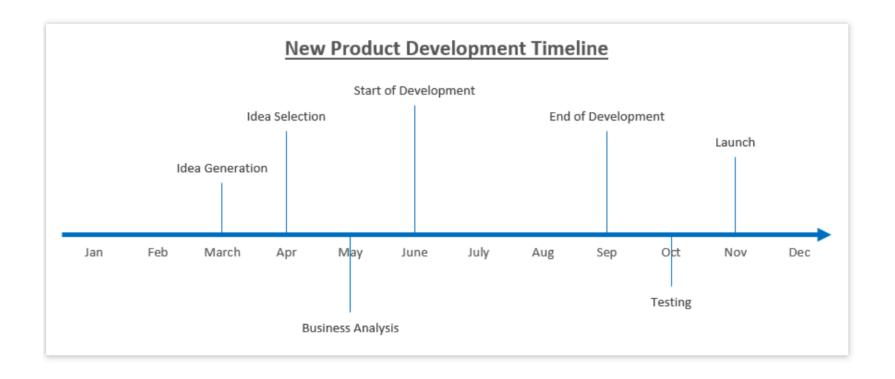
- 4. Prepare for disaster.
- 5. If slides are big notecards, don't have slides.

Put Details on Slides

DOE Oak Ridge Exascale System Frontier Specs.

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Peak Performance	>1.5 EF
Footprint	> 100 cabinets
Node	1 HPC and AI Optimized AMD EPYC CPU 4 Purpose Built AMD Radeon Instinct GPU
CPU-GPU Interconnect	AMD Infinity Fabric Coherent memory across the node
System Interconnect	Multiple Slingshot NICs providing 100 GB/s network bandwidth Slingshot dragonfly network which provides adaptive routing, congestion management and quality of service.
Storage	2-4x performance and capacity of Summit's I/O subsystem. Frontier will have near node storage like Summit.

Create Timelines



http://www.excel-board.com/how-to-create-timeline-chart-in-excel-quickly-and-easily/

PowerPoint Defaults

- The default format for PowerPoint is:
 - Outline Format.
 - Brief statements.
 - Slide is a big notecard for the speaker.
- This is BAD:
 - Credible argument:
 - Problems with space shuttle O-rings were known.
 - Poor PowerPoint hid the issue.
 - NASA Challenger exploded in 1986.
 - The best default for a new PowerPoint slide?