Indexing and Bibliographies

Indexing

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This Presentation

- Introducing the makeidx package.
- The \makeindex command.
- Creating index points.
- Creating the index.

Overview of Indexing

- Often at the end of a book, an index is included with references to key point.
- Usually this would include a separate piece of paper keeping track of words and their page of occurence.
- If pages were included or excluded, then it would be necessary to adjust all of the enteries.
- We can automate this process using the makeidx package.

makeidx Package

- To include the makeidx package, insert \usepackage{makeidx} in the preamble.
- We also need to enable the package by including \makeindex in the preamble.

```
\documentclass{book}
\usepackage{makeidx}
\title{Senior Capstone Project}
\author{Carl Limyao}
\makeindex
\begin{document}
```

Making Index Points

- To create an index point—a point where a word is noted and placed in the index—we use $\setminus index\{key\}$.
- We need to include the index command after the word itself.
 - e.g. Maxwell's equations\{Maxwell} are
 four equations...
- Some entries are sub-entries of other index words. To do this we use \index{key!sub-key}

Creating the Index

- To generate the index, use \printindex toward the end of the document.
- The index will be generated in the place where the command is placed.
- For general practice, it is best to place the index after the bibliography.
- When generating the document, the index will be put in the output file (DVI, PS, PDF) and a .idx file with the same name as our .tex document.
- The .idx file has all of our index listings.

Index Review

- We use the makeidx package to make indexes.
- It's necessary to include \makeindex in the preamble.
- Index entires are categorized using \index { key }.
- Toward the end of the document, use \printindex to make the index.