Environments

General Environments

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This Presentation

- Preview of environments
- Review of environments encountered
- Quotation and Verse Environment
- Abstract Environment

Overview of Environments

- Environments will apply a special formatting to the text within it.
- Each environment has a special attribute for it.
- For instance, we used the itemize environment to make a bulleted list.
- The math environment is another extremely useful environment.

Review of Environments

- We've already seen a couple of environments in a document: itemize and enumerate.
- These environments all started with \begin{Environment Name }.
- **▶** They both ended with \end{Environment Name}.
- All environments begin and end in the same way, but differ in the content between these commands.

Very Basic Environment Layout

```
\begin{document}
\begin{Environment Name}
Stuff within the environment
\end{Environment Name}
```

Quotation Environment

- For long quotes, documents usually indent on both sides and have more indentation for the beginning of a new paragraph.
- In a word processor it would require the author to adjust the indentations on the document ruler at the top of the page.
- LATEX uses the quotation environment.

Quotation Example

```
\begin{document}
Normal text for our document.
\begin{quotation}
It was the best of times, it was the worst
of times, it was the age of wisdom, it was
the age of foolishness, it was the epoch of
belief, it was the epoch of incredulity...
There were a king with a large jaw and a
queen with a plain face, on the throne of
England; there were a king with a large jaw
and a queen with a fair face, on the throne
of France.
\end{quotation}
Back to normal text.
```

Quotation Example

Normal text for our documents

It was the best of times, it was the worst of times, it was the age of wisdom, it was the age of foolishness, it was the epoch of belief, it was the epoch of incredulity...

There were a king with a large jaw and a queen with a plain face, on the throne of England; there were a king with a large jaw and a queen with a fair face, on the throne of France.

Back to normal text.^a

^aOf course the following comes from Charles Dicken's *The Tale of Two Cities*

Verse

- The verse environment is suited for poetry.
- Similar to the quotation environment, the entire paragraph is indented from the left and the right.
- However, the first line is not indented further, while the subsequent lines are indented further.
- For this environment, it's important to end a line using \\, instead of returns.

Verse Example

```
\begin{document}
\begin{verse}
Verse is best set for poems,\\
But since I don't know any, this will make due,\\
As long as the concept is clear.\\
\end{document}
```

Verse Example (con't)

Verse is best set for poems, But since I don't know any, this will make due, As long as the concept is clear.

Abstract Environment

- In academic journals, each article (just under the title) usually has an abstract that summarizes the study and findings.
- We can use the abstract environment to make an abstract for our paper.
- The alignment will look similar to the quotation environment, but uses smaller text.
- Abstracts are usually a good idea for a larger independent study or capstone paper.

Abstract Example

```
\begin{document}
\maketitle
\begin{abstract}
This paper studies the relationship between
unionization and wages. Using new multiple
regression techniques we found that
unionization and wages were positively
related. This contradicts earlier findings
that used antiquated techniques.
\end{abstract}
```

Abstract Example (con't)

Abstract

This paper studies the relationship between unionization and wages. Using new multiple regression techniques we found that unionization and wages were positively related. This contradicts earlier findings that used antiquated techniques.

Abstract Environment (con't)

- In an earlier slide I made it a point to insert \maketitle before the abstract.
- It's easy to accidently place it after since the abstract is always the first part of the document.
- However, making this mistake will cause a linebreak between the abstract and the first page.

General Environment Review

- Environments begin with \begin{Environment
 Name \} and end with \begin{Environment Name \}.
- Quotation and verse environments can be used for long quotes or poetry verses, respectively.
- Abstract environment will neatly place a formatted abstract at the top of our page.