

L^AT_EX, A Short Course

Typsetting Source Code

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- Typesetting source code in \LaTeX is handled brilliantly by the `listings` package.
- Most basic usage is to paste the code inside of the `lstlisting` environment.

```
\begin{lstlisting}
int main(void) {
    printf("Hello world!");
}
\end{lstlisting}
```

typesets as:

```
int main(void) {
    printf(" Hello world!");
}
```

Wait... didn't I say that it didn't look awful??

- For some unholy reason, the default appearance of listings is an abomination.
- This can easily be fixed by setting some options.
- Options can be set using the `\lstset` command.
- Let's change the base font, set a language:

```
\lstset{basicstyle=\tt, language=c}
```

now we get:

```
int main(void) {  
    printf("Hello □ world!");  
}
```

- Let's change the colour of keywords and comments, and add a shaded background:

```
\lstset{basicstyle=\tt, language=c,  
keywordstyle=\color{blue}\tt,  
commentstyle=\color{green}\tt,  
backgroundcolor=\color{lightgray}  
}
```

now we get:

```
int main(void) {  
    printf("Hello world!");  
}
```

- Much better!

- Try it out. Open the file `code.tex`. Add an `\lstset` command to make the code typeset like this:

```
# Print something someone said.  
def say_something(something, who):  
    print who + 'said:␣' + something
```