

L^AT_EX

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Chapter 1

Code

1.1 verbatim

1.1.1 Inline code

`\verb|<text>|` (“|” can be replaced by any character except “*”)

```
1 \verb|Hello, world!|      Hello, world!
```

1.1.2 Code block

`\begin{verbatim} ... \end{verbatim}`

```
1 \begin{verbatim}
2 def hello():
3     print("Hello, world!")
4 \end{verbatim}      def hello():
                        print("Hello, world!")
```

1.2 listings

`\usepackage{listings}`

1.2.1 Inline code

`\lstinline!<text>!` (“|” can be replaced by any character)

```
1 \lstinline|Hello, world!|      Hello, world!
```

1.2.2 Code block

```
\begin{lstlisting} ... \end{lstlisting}
```

```
1 \begin{lstlisting}
2 def hello():
3     print("Hello, world!")
4 \end{lstlisting}
```

```
def hello():
    print("Hello , world!")
```

1.2.3 Input file

```
\lstinputlisting{<file-path>}
```

```
1 \lstinputlisting{hello.py}
```

```
def hello():
    print("Hello , world!")
```

1.3 minted

```
\usepackage{listings}
```

Minted uses Pygments for syntax highlighting.

Install Python and then Pygments.

```
1 $ pip install Pygments
```

To use Pygments on L^AT_EX, you need to pass `-shell-escape` flag to L^AT_EX.

```
1 $ lualatex -shell-escape <file>
```

If you want to compile L^AT_EX document containing minted with Visual Studio Code and LaTeX Workshop Plugin, add the following to `settings.json`.

```
1 {
2     "latex-workshop.latex.tools": [
3         {
4             "name": "lualatex",
5             "command": "lualatex",
6             "args": [
7                 "-shell-escape",
8                 "-synctex=1",
9                 "-interaction=nonstopmode",
10                "-file-line-error",
```

```

11         "%DOC%"
12     ],
13     "env": {}
14 },
15 {
16     "name": "bibtex",
17     "command": "bibtex",
18     "args": [
19         "%DOCFILE%"
20     ],
21     "env": {}
22 }
23 ],
24 "latex-workshop.latex.recipes": [
25     {
26         "name": "lualatex",
27         "tools": [
28             "lualatex"
29         ]
30     },
31     {
32         "name": "lualatex -> bibtex -> lualatex * 2",
33         "tools": [
34             "lualatex",
35             "bibtex",
36             "lualatex",
37             "lualatex"
38         ]
39     }
40 ]
41 }

```

1.3.1 Inline code

`\mintinline{<language>}{<text>}`

1.3.2 Code block

For single line: `\mint{<language>}{<text>}`

```

1 \mint{python}{
2 print("Hello, world!")
3 }

```

```

1 print("Hello, world!")

```

For multiple lines: `\begin{minted} ... \end{minted}`

```

1 \begin{minted}{python}
2 def hello():
3     print("Hello, world!")
4 \end{minted}

```

```

1 def hello():
2     print("Hello, world!")

```

1.3.3 Input file

`\inputminted{<language>}{<file-path>}`

```

1 \inputminted{python}{hello.py}
   ↪ y

```

```

1 def hello():
2     print("Hello, world!")

```

1.3.4 Captions and labels

Minted provides floating listing environment to use with caption and label.

```

1 \begin{listing}[H]
2   \mint{python}|print("Hello,
   ↪ world!")|
3   \caption{Code example}
4   \label{lst:example}
5 \end{listing}

```

```

1 print("Hello, world!")

```

Listing 1: Code example

1.3.5 Options

Setting global minted options

inline & code blocks

```

1 \setminted{<options>}
2 \setminted[<language>]{<options>}

```

inline

```

1 \setmintedinline{<options>}
2 \setmintedinline[<language>]{<options>}

```

Defining shortcuts

minted environment

```

1 \newminted{<language>}{<options>} % default environment-name:
   ↪ <language>code
2 \newminted[<environment-name>]{<language>}{<options>}

```

```

3
4 \begin{<environment-name>}
5 \end{<environment-name>}

```

mint command

```

1 \newmint{<language>}{<options>} % default macro-name: <language>
2 \newmint[<macro-name>]{<language>}{<options>}
3
4 \<macro-name>/<text>/ % ``/' can be replaces by any character

```

mintinline command

```

1 \newmintinline{<language>}{<options>} % default macro-name:
  ↳ <language>inline
2 \newmintinline[<macro-name>]{<language>}{<options>}
3
4 \<macro-name>/<text>/ % ``/' can be replaces by any character

```

inputminted command

```

1 \newmintedfile{<language>}{<options>} % default macro-name:
  ↳ <language>file
2 \newmintedfile[<macro-name>]{<language>}{<options>}
3
4 \<macro-name>{<file-path>}

```

Available options

- autogobble (boolean): Remove gobble (leading whitespace)
- breaklines (boolean): Automatically break long lines
- frame (none | leftline | topline | bottomline | lines | single): Put lines around the code
- linenos (boolean): Linen numbers
- numbersep (dimension): Gap between numbers and start of line

```

1 \setminted{
2   autogobble,
3   breakanywhere,

```

```
4 breaklines,  
5 frame=single,  
6 linenos,  
7 numbersep=2mm,  
8 }
```


Chapter 2

Split files

2.1 input

Includes contents of the file.

```
1 \input{<subfile-path>}
```

Listing 2: main file

```
1 <file-content>
```

Listing 3: sub file

2.2 include

Includes contents of the file and automatically starts a new page. Doesn't allow nesting.

```
1 \include{<subfile-path>}
```

Listing 4: main file

```
1 <file-content>
```

Listing 5: sub file

2.3 standalone

```
1 \usepackage{standalone}  
2  
3 \input{<subfile-path>}
```

Listing 6: main file

```
1 \documentclass[preview]{standalone}  
↪
```

Listing 7: sub file

2.4 subfiles

```
1 \usepackage{subfiles}
2
3 \subfile{<subfile-path>}
```

Listing 8: main file

```
1 \documentclass[<mainfile-pat
   ↳ h>]{subfiles}
```

Listing 9: sub file