

Abstract

A little abstract overview. Small experiments in LaTeX.

A little LaTeX document

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1 Basic formatting

We can do **bold text**, underlined text, and *italic text*.

2 Emphasis

”Emphasis” is useful when nested inside bold / italic text:

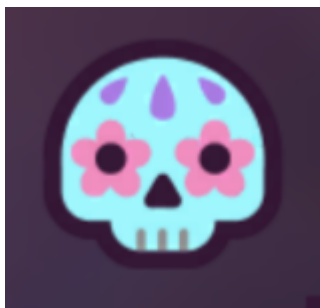
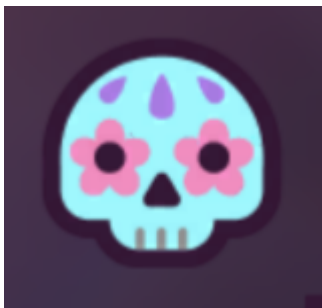


Figure 1: A cute skull!

Some words *and emphasis* within a sentence.
Some words and emphasis *within a sentence*.
Some words *and emphasis* within a sentence.

3 Images



4 Lists

- Here's one list item
 - Here's another
 - Basically the same as ul and li
1. Ordered this time
 2. Very cool
 3. Same as ol and li

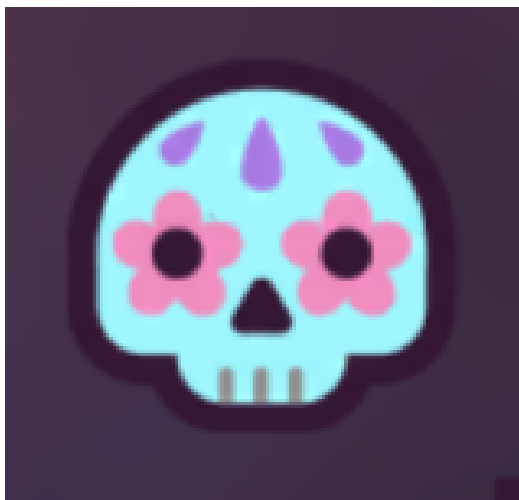


Figure 2: A cute skull!

5 Maths

5.1 Inline maths (3 variants)

$E = mc^2$ is typeset in a paragraph using inline math mode—as is $E = mc^2$, and so too is $E = mc^2$.

5.2 Display maths (2 variants)

The mass-energy equivalence is described by the famous equation

$$E = mc^2$$

discovered in 1905 by Albert Einstein.

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$$E = mc^2 \tag{1}$$

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5.3 Detailed maths

Subscripts and superscripts:

$$T_{j_1 j_2 \dots j_q}^{i_1 i_2 \dots i_p} = T(x^{i_1}, \dots, x^{i_p}, e_{j_1}, \dots, e_{j_q})$$

Random symbols:

$$\omega \delta \Omega \Delta \sin \cos \tan$$

6 Tables

cell1	cell2	cell3
cell4	cell5	cell6
cell7	cell8	cell9

Table 1: This is a pointless table

7 Code

Inline inexplicably uses `Verb` and `pipes`.

Verbatim just embeds code without touching:

```
% Note: Defining width as a fraction of text makes sense
\begin{figure}
  \centering
  \includegraphics[width=0.5\textwidth]{skull}
  \caption{A cute skull!}
  \label{fig:skull2}
\end{figure}
```

lstlisting embeds code and tries to highlight it:

Listing 1: Example Java code

```
class HelloWorld {
    public static void main(String [] args) {
        System.out.println("Hello , -World!");
    }
}
```