

Hello world! What happens to funny spacing? Is it preserved?

First line.

Second line.

Third line.

italic *this way*

bold face **like this**

subscript~lower~

superscript^raised^

strikethrough ~~for mistakes~~

# First Level

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## Second Level

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###Third Level

...

#####Six Level!

lists are easy

- first item
- second item
- third item, and yes it will keep everything aligned just as it should be for longer text!
  - subitem
    - sub-subitem

| All musicians are subconsciously matematicians

Thelonious Monk

Use single backtick for in-line emphasis `like this`.

Shows literal text as `3 + pi`.

Start with r to get it to run r code this 6.1415927.

## Code fencing

```
# Comments are important!
pred <- seq(1,10) # make a vector of intergers from one to 10
response <- runif(10)
print(response)

# now plot a graph
plot(x=pred,
      y=response,
      type="b")
```

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# Links

<http://example.com>

[linked phrase](#)

A [linked phrase](#)

First Header	Second Header
Content Cell	Content Cell
Content Cell	Content Cell

```
library(knitr)
kable(head(iris))
```

Sepal.Length Sepal.Width Petal.Length Petal.Width Species

5.1	3.5	1.4	0.2	setosa
4.9	3.0	1.4	0.2	setosa
4.7	3.2	1.3	0.2	setosa
4.6	3.1	1.5	0.2	setosa
5.0	3.6	1.4	0.2	setosa
5.4	3.9	1.7	0.4	setosa

## Creating equations with LaTeX

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An `inline` equations is bracketed by single dollar signs  $3 + 5 = 8$  like this.

For more complex equations, we will render them on a single line by using a double dollar sign to bracket them:

$$3 + 5 = 8$$

Keeps this as a stand-alone piece.

Subscripts as follows:

$$H_0 = Z\{a + b\{3z\}\}$$

## Fractions and Greek symbols

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$$\alpha = \frac{\beta}{\delta + \gamma_{x=3}}$$

## Summation sign

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$$z = \sum_{i=1}^{j-1} \{K_1\}$$

## Escaping backslash character

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$$\backslash \alpha \leq b \backslash$$

## Mixing plain text in LaTeX

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$$P(\text{Occurrence of Species A}) = Z$$