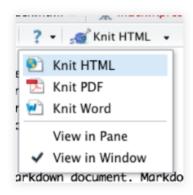


### What is Markdown?

- Markdown is a particular type of markup language.
- Markup languages are designed produce documents from plain text.

## knitr + markdown + pandoc = rmarkdown

- rmarkdown is a new package from RStudio that merges a lot of technologies in an exciting way.
- In fact, in RStudio now, you integrate R code into your Markdown document and render as HTML/pdf/Word in the click of a button!



#### Markdown syntax

```
#Header 1
##Header 2
### Header 3
This is regular
text.
> This is a
blockquote.
>
> This is the
second paragraph
in the blockquote.
> ## This is an
H2 in a blockquote
```

#### Resulting HTML

```
<h1>Header 1</h1>
<h2>Header 2</h2>
<h3>Header 3</h3>
This is regular
text.
<blockquote>
This is a
blockquote.
This is the second
paragraph in the
blockquote.
<h2>This is an H2 in a
blockquote</h2>
</blockquote>
```

## Header 1

Header 2

Header 3

This is regular text.

This is a blockquote.

This is the second paragraph in the blockquote.

This is an H2 in a blockquote

#### Markdown syntax

# Here we have an unordered list.

- \* Item 1
- \* Item 2
  - \* Item 2a
  - \* Item 2b

Here we have an ordered list

- 1. Item 1
- 2. Item 2
  - \* Item 2a
  - \* Item 2b

#### Resulting HTML

```
Here we have an
unordered list.
<l
Item 1
<1i>>Ttem 2
<l
Item 2a
Item 2b
Here we have an
ordered list
<01>
Item 1
Item 2
<u1>
Item 2a
Item 2b
```

Here we have an unordered list.

- Item 1
- Item 2
  - Item 2a
  - Item 2b

Here we have an ordered list

Item 1

Item 2

- Item 2a
- Item 2b

#### Markdown syntax

```
What if we want
to *italicize* or
**bold**?
* In a list, I
may want to
 italicize or
 bold this way.
I can also
include inline
`code` or
. . .
blocks of code
Or even a [link]
(http://google.com)
```

#### Resulting HTML

```
What if we want to
<em>italicize
<strong>bold</strong>?
<111>
In a list, I may
want to
<em>italicize</em> or
<strong>bold</strong>
this way.
I can also include
inline
<code>code</code> or
<code>blocks of
code</code>
Or even a <a
```

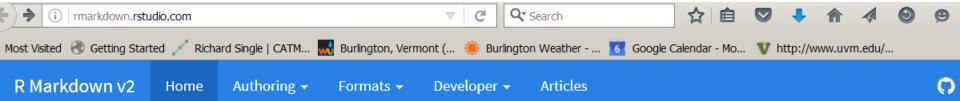
What if we want to *italicize* or **bold**?

• In a list, I may want to italicize or **bold** this way.

I can also include inline code or

blocks of code

Or even a link



#### R Markdown

#### Dynamic Documents for R

R Markdown is an authoring format that enables easy creation of dynamic documents, presentations, and reports from R. It combines the core syntax of markdown (an easy to write plain text format) with embedded R code chunks that are run so their output can be included in the final document.

R Markdown documents are fully reproducible (they can be automatically regenerated whenever underlying R code or data changes).

R Markdown has many available output formats including HTML, PDF, MS Word, Beamer, HTML5 slides, Tufte handouts, notebooks, books, dashboards, and websites.

#### Getting Started



**Quick Tour** 



R Markdown Cheat Sheet



