



R Markdown Cheat Sheet

Complete guide to R Markdown for reproducible research and data science

R Markdown extends standard Markdown with R code chunks. See our [Markdown Cheat Sheet](#) for basic syntax.

This preview renders the Markdown and displays your chunk code exactly as written — executing chunks is knitr's job inside RStudio or `rmarkdown::render()`, so R output is not computed here.

YAML Front Matter

Basic Document

```
---
title: "My Document"
author: "Your Name"
date: "2024-01-01"
output: html_document
---
```

PDF Output

```
---
title: "PDF Report"
output: pdf_document
---
```

Multiple Outputs

```
---
title: "Multi-format"
output:
  html_document:
    toc: true
  pdf_document: default
---
```

Code Chunks

Basic R Chunk

```
```{r}
summary(cars)
```
```

Named Chunk

```
```{r my-chunk-name}
x <- 1:10
mean(x)
```
```

Python Chunk

```
```{python}
import pandas as pd
print("Hello from Python")
```
```

Chunk Options

Hide Code

```
```{r, echo=FALSE}  
plot(1:10)
```
```

Hide Output

```
```{r, results='hide'}  
x <- 1:10
```
```

Don't Evaluate

```
```{r, eval=FALSE}  
This code won't run
install.packages("ggplot2")
```
```

Figure Size

```
```{r, fig.width=10, fig.height=6}  
plot(cars)
```
```

Figure Caption

```
```{r, fig.cap="My Plot Title"}  
plot(cars)
```
```

Cache Results

```
```{r, cache=TRUE}  
Slow computation
```

```
result <- complex_function()
```
```

Inline R Code

Basic Inline

```
The mean is `r mean(x)`.
```

With Formatting

```
The value is `r round(pi, 2)`.
```

Tables

kable Table

```
```{r}  
knitr::kable(head(iris))
```
```

Styled Table

```
```{r}  
knitr::kable(head(mtcars), caption = "Motor Trend Cars")
```
```

Common Chunk Options

| Option | Description |
|-------------------------|--------------------------------------|
| <code>echo</code> | Show/hide code (TRUE/FALSE) |
| <code>eval</code> | Run code (TRUE/FALSE) |
| <code>include</code> | Include chunk in output (TRUE/FALSE) |
| <code>results</code> | 'asis', 'hide', 'hold', 'markup' |
| <code>message</code> | Show messages (TRUE/FALSE) |
| <code>warning</code> | Show warnings (TRUE/FALSE) |
| <code>error</code> | Continue on error (TRUE/FALSE) |
| <code>cache</code> | Cache results (TRUE/FALSE) |
| <code>fig.width</code> | Figure width in inches |
| <code>fig.height</code> | Figure height in inches |
| <code>fig.cap</code> | Figure caption |
| <code>out.width</code> | Output width (e.g., "50%") |

Related Cheat Sheets

Markdown Cheat Sheet

Standard Markdown syntax

Jupyter Markdown

Jupyter notebook syntax

Markdown Editor

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