

# Sweave Example

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This is how you write basic math inline with text:  $x + y = z$

This is how you write basic math in displayed equation:

$$x + y = z$$

This is how you write a matrix:

$$\mathbf{X} = \begin{pmatrix} x_{11} & x_{12} & x_{13} \\ x_{21} & x_{22} & x_{23} \end{pmatrix}$$

This is how you make a numbered list:

1. First element of list
2. Second element of list

This is how you make an unnumbered list:

- First element of list
- Second element of list

This is how you include basic R code:

```
> set.seed(1)
> x = rnorm(1000)
> mean(x)

[1] -0.01164814

> sd(x)

[1] 1.034916

> y = rnorm(1000,mean=1,sd=2)
> mean(y)

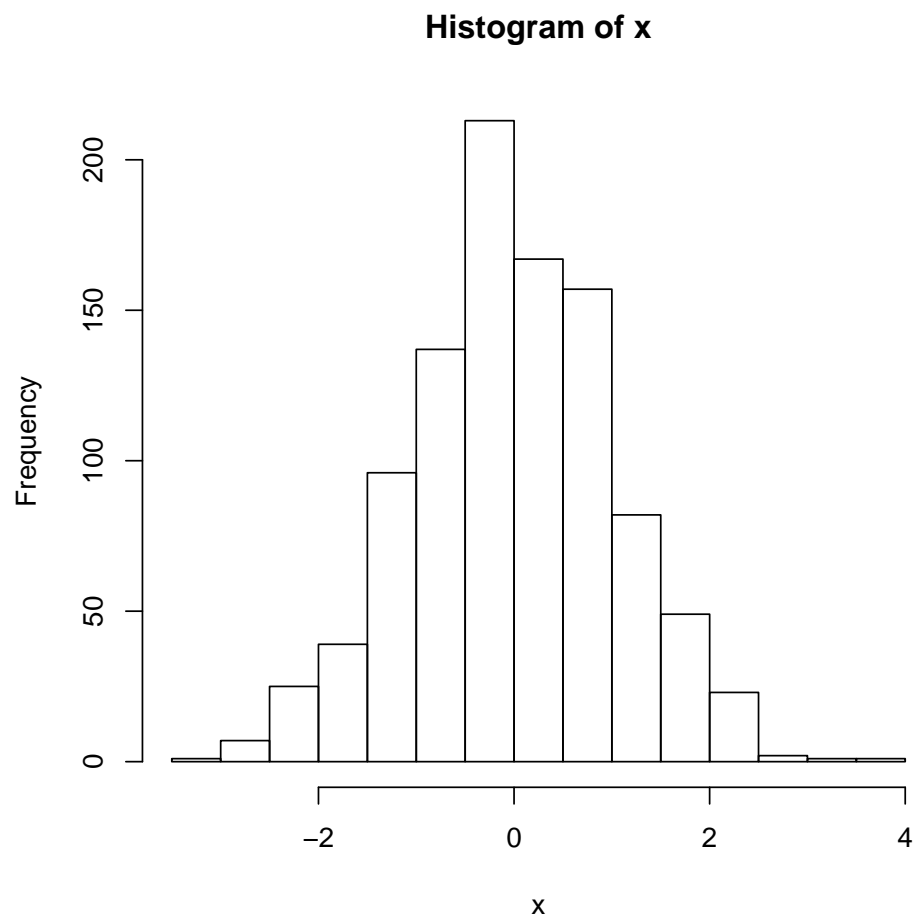
[1] 0.9674762

> sd(y)

[1] 2.079963
```

This is how you include R code with figures:

```
> set.seed(1)
> x = rnorm(1000)
> hist(x)
```



This is how you include the value  $\pi = 3.14159265358979$  inline with text.