

# Literate R programming with reST using ascii-package

**Author:** Matti Pastell <[matti.pastell@helsinki.fi](mailto:matti.pastell@helsinki.fi)>

**website:** <http://mpastell.com>

## Table of Contents

<b>Intro</b>	<b>1</b>
<b>Example usage</b>	<b>1</b>
Results in a table	1
Adding a figure	2

## Intro

This is a simple example <sup>1</sup> of the usage of `ReStructuredText` for literate R programming with the ReST Sweave driver in the `ascii` - package.

## Example usage

The code chunks have the same options as the original **Sweave** driver. Here is *an example* of executing some code and adding a Figure:

## Results in a table

```
> library(MASS)
> data(npk)
> aov.npk <- aov(yield ~ block + N * P * K, npk)
> print(ascii(summary(aov.npk)), "rest")
```

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
block	5.00	343.30	68.66	4.45	0.02
N	1.00	189.28	189.28	12.26	0.00
P	1.00	8.40	8.40	0.54	0.47
K	1.00	95.20	95.20	6.17	0.03
N:P	1.00	21.28	21.28	1.38	0.26
N:K	1.00	33.13	33.13	2.15	0.17
P:K	1.00	0.48	0.48	0.03	0.86
Residuals	12.00	185.29	15.44		

## Adding a figure

```
> x = rnorm(1000)
> hist(x, freq = FALSE)
> xax = seq(-10, 10, by = 0.1)
> lines(xax, dnorm(xax, mean(x), sd(x)), col = 4, lwd = 2)
```

