A Minimal Example for Markdown

This is a minimal example of using **knitr** to produce an *HTML* page from *Markdown*.

R code chunks

```
# set global chunk options: images will be 7x5 inches
opts_chunk$set(fig.width = 7, fig.height = 5)
```

Now we write some code chunks in this markdown file:

```
x <- 1 + 1  # a simple calculator
set.seed(123)
rnorm(5)  # boring random numbers
## [1] -0.56048 -0.23018  1.55871  0.07051  0.12929
```

We can also produce plots:

```
par(mar = c(4, 4, 0.1, 0.1))
with(mtcars, {
    plot(mpg ~ hp, pch = 20, col = "darkgray")
    lines(lowess(hp, mpg))
})
```

Inline code

Inline R code is also supported, e.g. the value of x is 2, and 2 × π = 6.2832.

Math

LaTeX math as usual: \(f(\alpha, \beta) \propto x^{\alpha-1}(1-x)^{\beta-1} \).

Misc

You can indent code chunks so they can nest within other environments such as lists.

1. the area of a circle with radius x

```
2. pi * x^2
3. ## [1] 12.57
```

4. OK, that is great

To compile me, use

```
library(knitr)
knit("knitr-minimal.Rmd")
```

Conclusion

Markdown is super easy to write. Go to **knitr** homepage for details.