

# Simple Beamer example with knitr

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# Before using knitr for Beamer slides

Install the `knitr` R package.

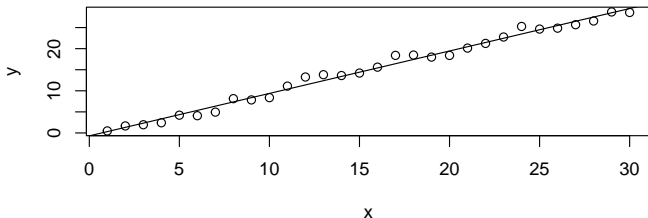
Change Tools > Options > Sweave from Sweave to `knitr`.

## Using R code chunks

To show code verbatim, need the option [fragile] when you begin the frame.

Generate data as  $y = x + \epsilon$ , with  $\epsilon \sim N(0, 1)$  and plot it:

```
par(mar = c(4, 4, 0.1, 0.1))  
x = 1:30  
e = rnorm(30)  
y = x + e  
plot(x, y)  
abline(lm(y ~ x))
```



## Referencing R results in text; printing tables

```
summary(lm(y ~ x))$coefficients
```

```
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   -0.691     0.35711  -1.935 6.317e-02
## x              1.007     0.02012  50.053 6.101e-29
```

In the linear regression we just performed, the slope was 1.0068.  
Use the `xtable` package to print nice  $\text{\LaTeX}$  tables:

	Estimate	Std. Error	t value	Pr(> t )
(Intercept)	-0.69	0.36	-1.93	0.06
x	1.01	0.02	50.05	0.00

Table : Regression results