Outline

1. Reporting the result of a hypothesis test.
   (a) Decision rules and Type I errors. ($\alpha$)
   (b) Type II errors and power. `power.t.test()`
3. Kinds of relationships between two variables.
4. Observational studies. (prospective, retrospective).
5. How not to establish a causal relationship.
6. Randomized, comparative experiments.

Homework - due Monday, April 14, 2008

1. Read Chapter 6.

2. By Tuesday you should construct a paper helicopter. (See other sides for instructions.) You may choose the design parameters within the given constraints. I will supply paper clips. Your goal: maximize flight time. Flight tests are Tuesday.

Useful R

```r
> power.t.test(n=26,delta=.5,sd=1,sig.level=.05,type="one.sample")

One-sample t test power calculation

 n = 26
delta = 0.5
 sd = 1
sig.level = 0.05
power = 0.6881751
alternative = two.sided
```