Sweave Test Document for Heritability by Group

Joe's BG Temmmam

November 12, 2011

Version: 2011V28;
19+ year-olds with amibiguous sibs and Null values recoded as .375.

```
> x <-rnorm(10)
```

```
 [1]  0.57394270 -0.25282827 -0.97675737 -0.47666520 -0.83738334  1.49374929
 [7]  0.85597354 -0.02435095 -1.17394356  1.51429415
```

	α	h^2	c^2	e^2	Mean	SD	Skew	.25	.375	.5	.75	1	Total N
Total	7160	0.710	0.050	0.240	-0.03	1.01	-0.03	2206	62	4864	0	28	7160
All FF	1782	0.850	0.040	0.120	-0.04	1.02	0.04	574	12	1186	0	10	1782
All MF	3558	0.650	0.060	0.290	0.01	1.02	-0.06	1110	26	2422	0	0	3558
All MM	1820	0.700	0.020	0.280	-0.07	0.99	-0.03	522	24	1256	0	18	1820

Table 1: Height

	Estimate	Std. Error	z value	Pr(>|z|)
(Intercept)	3.0445	0.1709	17.81	0.0000
outcome2	-0.4543	0.2022	-2.25	0.0246
outcome3	-0.2930	0.1927	-1.52	0.1285
treatment2	0.0000	0.2000	0.00	1.0000
treatment3	0.0000	0.2000	0.00	1.0000

	Df	Deviance	Resid. Df	Resid. Dev
NULL			8	10.58
outcome	2	5.45	6	5.13
treatment	2	0.00	4	5.13

Now we look at Gaussian data:

```
 [1]  0.4750447  0.9506127  1.4138765  0.4904362 -0.5459944 -0.3770295
 [7]  1.2815968 -1.2182136 -0.3996024  0.7517564 -0.5967970 -0.1962042
[13]  2.5385576  0.7041028  1.1901879 -0.4253724 -0.3238622 -1.0783299
[19]  2.0731882 -0.7840216

        One Sample t-test

data:  x
t = 1.2594, df = 19, p-value = 0.2231
```

```
alternative hypothesis: true mean is not equal to 0
95 percent confidence interval:
 -0.1960511  0.7884443
sample estimates:
mean of x
0.2961966
```

Note that we can easily integrate some numbers into standard text: The third element of vector `x` is 1.41387654617017, the p-value of the test is 0.22313.

Now we look at a summary of the famous `iris` data set, and we want to see the commands in the code chunks:

```
> data(iris)
> summary(iris)
```

```
  Sepal.Length    Sepal.Width     Petal.Length    Petal.Width
 Min.   :4.300   Min.   :2.000   Min.   :1.000   Min.   :0.100
 1st Qu.:5.100   1st Qu.:2.800   1st Qu.:1.600   1st Qu.:0.300
 Median :5.800   Median :3.000   Median :4.350   Median :1.300
 Mean   :5.843   Mean   :3.057   Mean   :3.758   Mean   :1.199
 3rd Qu.:6.400   3rd Qu.:3.300   3rd Qu.:5.100   3rd Qu.:1.800
 Max.   :7.900   Max.   :4.400   Max.   :6.900   Max.   :2.500
       Species
 setosa    :50
 versicolor:50
 virginica :50
```

```
> library(graphics)
> pairs(iris)
```

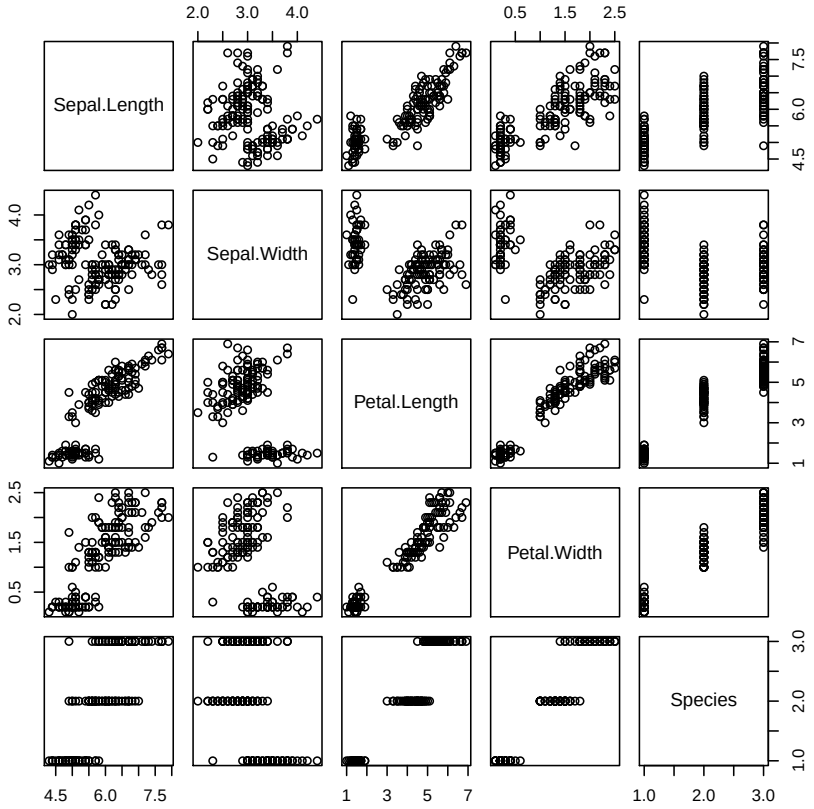

Figure 1: Pairs plot of the iris data.

```
> boxplot(Sepal.Length~Species, data=iris)
```

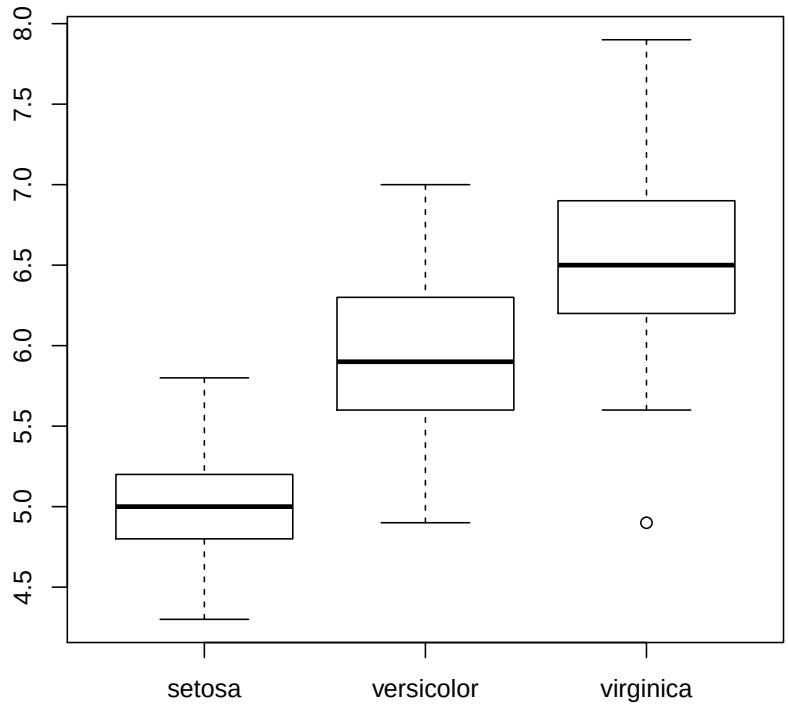

Figure 2: Boxplot of sepal length grouped by species.