

# IS624 Week 7

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## Question 1: Plotting/Comparing Survival Curves Part I

Load in the ovarian data-set:

```
library(survival)
data(ovarian)
ovarian
```

##	futime	fustat	age	resid.ds	rx	ecog.ps
## 1	59	1	72.3315	2	1	1
## 2	115	1	74.4932	2	1	1
## 3	156	1	66.4658	2	1	2
## 4	421	0	53.3644	2	2	1
## 5	431	1	50.3397	2	1	1
## 6	448	0	56.4301	1	1	2
## 7	464	1	56.9370	2	2	2
## 8	475	1	59.8548	2	2	2
## 9	477	0	64.1753	2	1	1
## 10	563	1	55.1781	1	2	2
## 11	638	1	56.7562	1	1	2
## 12	744	0	50.1096	1	2	1
## 13	769	0	59.6301	2	2	2
## 14	770	0	57.0521	2	2	1
## 15	803	0	39.2712	1	1	1
## 16	855	0	43.1233	1	1	2
## 17	1040	0	38.8932	2	1	2
## 18	1106	0	44.6000	1	1	1
## 19	1129	0	53.9068	1	2	1
## 20	1206	0	44.2055	2	2	1
## 21	1227	0	59.5890	1	2	2
## 22	268	1	74.5041	2	1	2
## 23	329	1	43.1370	2	1	1
## 24	353	1	63.2192	1	2	2
## 25	365	1	64.4247	2	2	1
## 26	377	0	58.3096	1	2	1

This data is from a randomised trial comparing two treatments for ovarian cancer. Look in <http://cran.r-project.org/web/packages/survival/survival.pdf>, the variables are as follows:

**futime:** survival or censoring time  
**fustat:** censoring status  
**age:** in years  
**resid.ds:** residual disease present (1-no, 2-yes)  
**rx:** treatment group  
**ecog.ps:** ECOG performance status (1 is better)