

## Lab2: Lattice Plots

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### Code:

```
> hsb2=read.table("C:/Code/DV_Lab/Lab2/hsb2.csv", header=T, sep=",")
> attach(hsb2)
```

The following objects are masked from hsb2 (pos = 3):

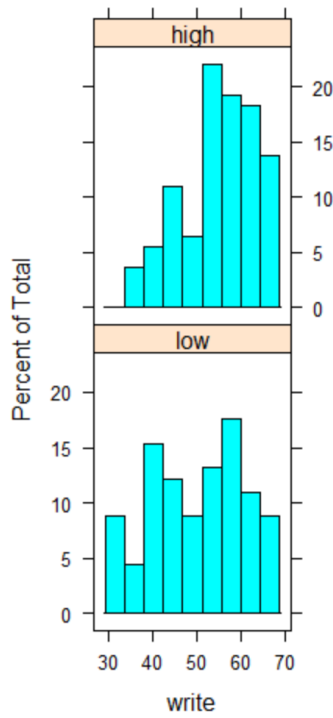
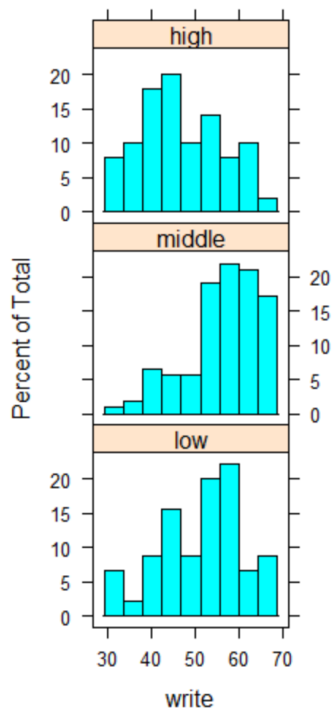
```
female, id, math, prog, race, read, schtyp, science, ses, socst, write
```

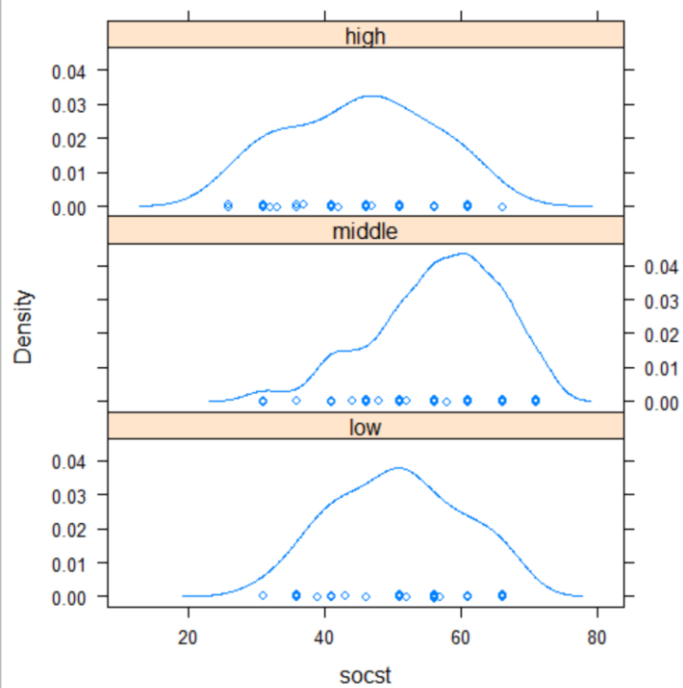
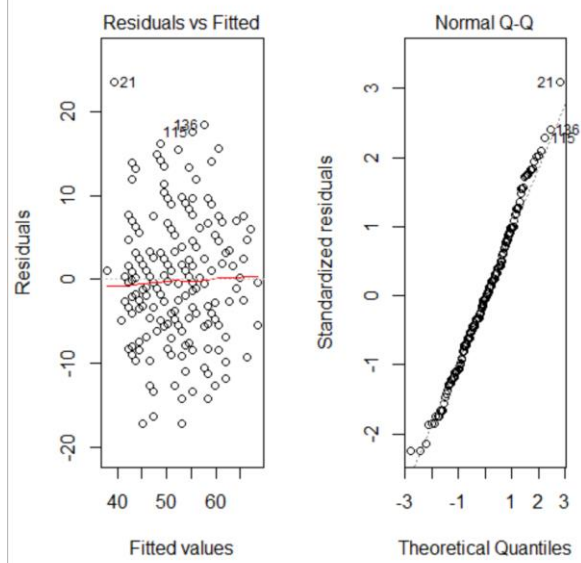
The following objects are masked from hsb2 (pos = 6):

```
female, id, math, prog, race, read, schtyp, science, ses, socst, write
```

```
> library(lattice)
> hsb2$prog.f=factor(hsb2$prog, labels=c("low", "middle", "high"))
> histogram(~write|prog.f, hsb2)
> hsb2$female.f=factor(hsb2$female, labels=c("low", "high"))
> histogram(~write|female.f, hsb2)
> reg=lm(read~math, hsb2)
> par(mfrow=c(1:2))
> plot(reg, which=1:2)
> densityplot(~socst|prog.f, hsb2)
> #3D Plot by factor level
> cloud(math~science*socst|hsb2$female.f, main="3D Scatterplot by cylinders")
```

### Screenshots:





### 3D Scatterplot by Cylinders

