

PLOTS

Graphs from numerical data

```
x = c(1, 3, 2)
y = c(1, 27, 8)
plot(x, y)
```

?plot

```
plot(x, y, "l")
```

Why is the plot like that? Because x values are not in order.

```
x = 1:3
```

```
y = c(1, 8, 27)
```

```
title("Plot of Cube")
```

Bar diagrams

```
yr = 1988 : 1994
```

```
sale = c(8, 12, 20, 22, 18, 24, 27)
```

```
barplot(sale, names.arg = yr, ylim=c(0,30))
```

Pie chart

```
counts = c(11, 18, 26, 9, 5)
```

```
pie(counts, c('A','B','C','D','E'))
```

Multiple curves:

```
x = c(1, 3, 4, 5, 7)
```

```
y1 = c(5, 14, 21, 16, 34)
```

```
y2 = c(6, 15, 22, 13, 31)
```

```
plot(x,y1, "l", xlab="X", ylab="Y1 and Y2")
```

```
lines(x,y2,lty=2)
```

```
legend(1, 34, c("Y1", "Y2"), lty=1:2)
```