

STATA commands for the Wednesday's lab. (Linear Regression Analysis)

Part1 : Simple linear regression

Plots the two variables

```
. graph Y1 X, xlab ylab s(.)
```

```
. regress Y1 X
```

```
. predict res, residuals
```

```
. graph res X, xlab ylab s(.)
```

```
. graph Y2 X, xlab ylab s(.)
```

```
. regress Y2 X
```

```
. predict res1, residuals
```

```
. graph res1 X, xlab ylab s(.)
```

```
. graph Y1 X, xlab ylab s(.)
```

```
. regress Y3 X
```

```
. predict res2, residuals
```

```
. graph res2 X, xlab ylab s(.)
```

Part 2: Multiple linear regression

```
. graph nd sm sd, matrix
```

```
. regress nd sm
```

```
. regress nd sd
```

```
. regress nd sm sd
```

```
. avplot sm
```

```
. avplot sd
```