

# **Stata Lab 2: Exercises**

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# Table of contents

Setup . . . . .	2
Question 1 . . . . .	2
Question 2 . . . . .	3
Question 3 . . . . .	4

## Setup

Set your working directory and read in the data

```
clear all
set more off
cd "/Users/jonathanjaves/Downloads/Lab-1" // set your directory

# Read in the data
use regional_dataset, clear
```

## Question 1

Make a subplot map that compares relative regional GDP per capita in 4 different years and join the maps together (your chosen region).

Try and make it such that there is only one legend in one subplot

```
# loop through maps without
foreach i of numlist 1950 (10) 1970 {
    spmap relative_gdp_cap_country using "nutscoord.dta" if year == `i' & country == "Fr
        fcolor(Yl0rRd) legend(pos(5)) legstyle(1) ///
        osize(0.02 ..) ocolor(white ..) ///
        clmethod(custom) clbreaks(0 0.8 1 1.2 3) ///
        name(relative_gdp_cap_map_`i', replace) ///
        title(`i') ///
        leg(off)
```

```

}

spmap relative_gdp_cap_country using "nutscoord.dta" if year == 1980 & country == "France",
    fcolor(YlOrRd) legend(pos(5)) legstyle(1) ///
    osize(0.02 ..) ocolor(white ..) ///
    clmethod(custom) clbreaks(0 0.8 1 1.2 3) ///
    name(relative_gdp_cap_map_1980, replace) ///
    title(1980) ///
    legend(pos(9))

graph combine relative_gdp_cap_map_1950 relative_gdp_cap_map_1960 relative_gdp_cap_map_1970

```

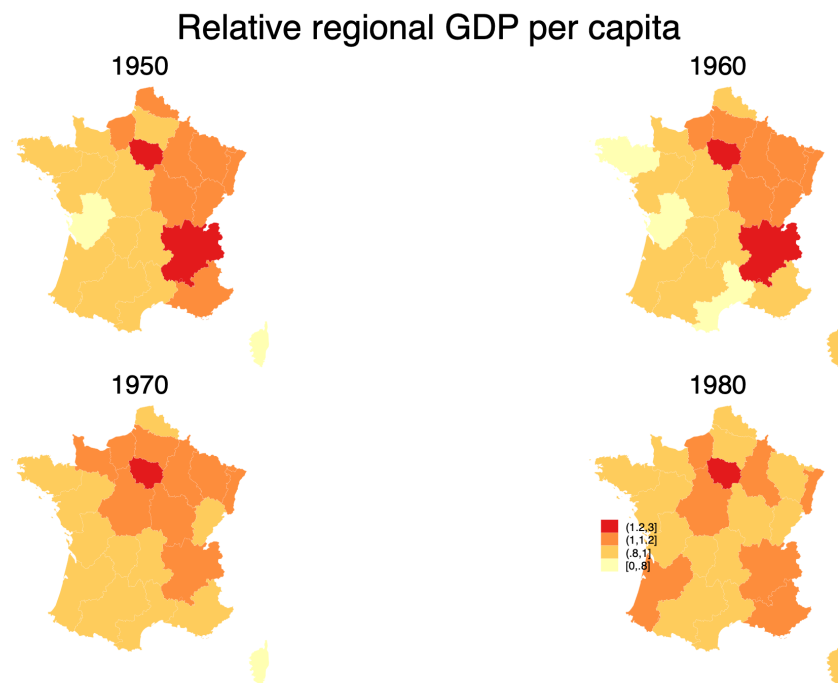


Figure 1: Output

## Question 2

Make a beta convergence plot (your region of choice) Add labels to the plot for three of your regions

See [this post](#) for more information on beta convergence.

### Question 3

Make a map that highlights a region that you want to discuss with a dotted line (any region)

See [this post](#) for more information on how to make a map with a dotted line to highlight a region.