

# Index

March 16, 2017

## 1 ScPo-CompEcon CoursePack

### 1.1 Content

This website contains the course material for the [computational economics course at Sciences Po](#).

I recommend you clone this somewhere on your computer (don't install as a julia package). You can do this easily in Github Desktop as in the first homework. Choose a suitable location on your computer. Alternatively, in your terminal, do this:

```
git clone https://github.com/ScPo-CompEcon/CoursePack /wheretoon/your/computer
```

This way you have all the materials locally and can use the site even if offline.

### 1.2 Course Materials

You can look at the material in a variety of formats. All content is given as IJulia notebooks, which you can edit on your computer, and from those notebooks I create html rendered versions, pdfs and html slides. The link below point to the actual website, so in case you are offline, just go to /wheretoon/your/computer and open files from that location. For example, to open the IJulia notebooks, do in julia

```
Pkg.add("IJulia") # use once to install IJulia
using IJulia
notebook(dir="/wheretoon/your/computer/Notebooks") # that's the dir from above!
```

This will open up the Jupyter notebook at the location of your notebooks

#### 1.2.1 Html Rendered Notebooks

[Basic Introduction to Julia](#)

[Basic Introduction to Computing](#)

[Numerical Integration](#)

[Plots.jl](#)

[Function Approximation](#)

### 1.2.2 Slides

[Basic Introduction to Julia](#)  
[Basic Introduction to Computing](#)  
[Plots.jl](#)  
[Numerical Integration](#)  
[Function Approximation](#)

### 1.2.3 Pdf

[Basic Introduction to Julia](#)  
[Basic Introduction to Computing](#)  
[Plots.jl](#)  
[Numerical Integration](#)  
[Function Approximation](#)

## 1.3 Required Packages

Please have all of those installed. This list will be updated!

- [Plots.jl](#)
- [PyPlot.jl](#)
- [PlotlyJS.jl](#)
- [ScPoExample.jl](#)
- [Gallium.jl](#)
- [Logging.jl](#)
- [DataFrames.jl](#)
- [DataFramesMeta.jl](#)
- [Queries.jl](#)
- [ForwardDiff.jl](#)
- [FastGaussQuadrature.jl](#)
- [Sobol.jl](#)
- [ApproxFun.jl](#)
- [Interpolations.jl](#)
- [ApproXD.jl](#)

## 1.4 How to build this

You should only worry about this section if you want to rebuild the site yourself.

### Requirements

```
#python
#latex
#ruby
pip install jupyter
pip install pandoc
```

**Building** in the root of this repo do

```
rake # builds all
rake html # builds only html
rake slides # builds slides
rake offline # builds offline slides; mathjax doesn't work properly offline.
```