**Quantitative Economics – programming tutorial**

1. **Getting started – beginner users**
2. Download Julia language: (<https://julialang.org/downloads/#current_stable_release>)
3. using the instructions in **1.4. Setting up Git and VS Code** of <https://julia.quantecon.org/getting_started_julia/getting_started.html>: a) Download Git (please accept the default settings <https://git-scm.com/downloads/win>),

b) Visual Studio Code (VSC) <https://code.visualstudio.com/download>

c) VSC Julia extension (VSC -> Extensions -> trust the authors)

1. Restart VS Code
2. If you encounter problems in 2. with Julia in VSC, read “**Getting started” in “Julia in Visual Studio Code”** [**https://code.visualstudio.com/docs/languages/julia**](https://code.visualstudio.com/docs/languages/julia)

**Once you completed all these steps press Alt+j Alt+o in VS Code** (alternatively press Ctrl+Shift+p to get the command palette and find the shortcut). This should start Julia REPL and you will see green julia text in the terminal.

**Optionally (we won’t use Jupyter):** *If you want to use Jupyter notebooks follow these steps: Input ] (right square bracket) in the terminal. This should change text from green to blue (and you should see something like “1.10”). Type “add IJulia” and press “enter”. This will download a package that allows you to use Jupyter notebooks with Julia.*

1. ***Getting started –* a*lternative detailed instructions for advanced users – I’M GOING TO DO IT ON MY NEW COMPUTER***

[*https://julia.quantecon.org/getting\_started\_julia/getting\_started.html*](https://julia.quantecon.org/getting_started_julia/getting_started.html)

*Skip 1.3.1 if you do not want to use Jupyter notebooks. (I will probably still download it, even if in QuantEcon we won’t use it)*

**Consider applying for free GitHub for Students**

[*https://education.github.com/discount\_requests/application?type=student*](https://education.github.com/discount_requests/application?type=student)

1. **Resources for learning Julia and Quantitative Economics**

* <https://juliaacademy.com/p/intro-to-julia> from Julia Academy - recommended intro I
* <https://julia.quantecon.org/intro.html> from QuantEcon - recommended intro II
* Amazing book: Bogumił Kamiński – “Julia for Data Analysis” <https://www.manning.com/books/julia-for-data-analysis>

1. **Git in Visual Studio Code tutorials**

* Bookmarked slides of 1. Git, Julia package (until 30)
* [7-minute beginner tutorial](https://www.youtube.com/watch?v=i_23KUAEtUM).
* [A guide to managing merge conflicts](https://www.youtube.com/watch?v=HosPml1qkrg&list=PLj6YeMhvp2S7abEHqkUPRkCSt4N2wpTwD&index=7).
* Cloning official repository (KEEP IT INTACT) and editing your own version: slides 26-27/ [film](https://www.youtube.com/watch?v=pgA_6uf4y64):
* If you encounter the issue of configuring your user.name and user.email in Git, do the steps below, also describe in this [video](https://www.youtube.com/watch?v=RT-1Zywrse8):
  + VSC: Terminal -> New Terminal -> One by one do these commands below
  + git config --global user.email "jan.hincz@outlook.com"
  + git config --global user.name "jan-hincz"
* additional resources (I WOULD SAY NOT NEEDED FOR NOW):
  + [VS Code and Git youtube playlist](https://www.youtube.com/playlist?list=PLj6YeMhvp2S7abEHqkUPRkCSt4N2wpTwD)
  + <https://swcarpentry.github.io/git-novice/>
  + Anna Skoulikari – Learning Git: A Hands-on and Visual Guide to the Basics of Git (Quant Econ class closely follows it)

1. **First steps in Julia**

* first\_steps\_jh.jl file
* Bookmarked slides of 1. Git, Julia package (from 30)
* Downloading and using packages: slides 31, 34 / [film](https://www.youtube.com/watch?v=3rMSdRpaEgk)

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