

How to use JuliaBox

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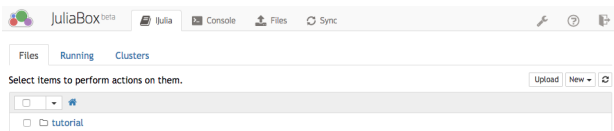
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What is JuliaBox?

- ▶ a cloud hosted environment for Julia
- ▶ interactive notebooks for coding
- ▶ comes with some necessary Julia packages already installed

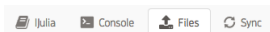
Logging into JuliaBox

- ▶ head over to <https://juliabox.org>
- ▶ login with any Google account
- ▶ once you login, you should see a page that looks like

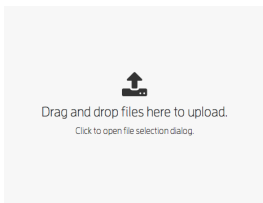


Uploading files

- ▶ You can upload any Julia or data file into Juliabox
- ▶ try downloading the file `readJSON263.jl`, `test_readJSON263.jl`, and a data file from <http://floatium.stanford.edu/ee263/homework.html>
- ▶ click on the Files tab in menu bar at the top of JuliaBox

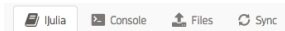


- ▶ drag and drop files into the specified region, or click on it to select to file to upload

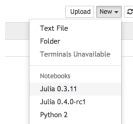


Creating an IJulia notebook

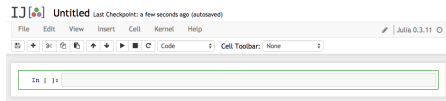
- ▶ an IJulia notebook is an interactive file that can run in your browser
- ▶ click on the IJulia tab in menu bar at the top of JuliaBox



- ▶ click on the New button and select Julia 0.3.11



- ▶ a new page should open in your browser that looks like



- ▶ you can rename your notebook by clicking on the name in the top left

IJ [Julia logo] Untitled0

Coding in an IJulia notebook

- ▶ the IJulia notebook is organized into cells
- ▶ you can type code directly into a cell

```
In [ ]: println("Hello world")
```

- ▶ you can run a cell by clicking it to select it, and then either clicking on the play button in the toolbar or pressing Shift + Enter



- ▶ the output of the cell will be displayed after it is run

```
In [1]: println("Hello world")
```

```
Hello world
```

- ▶ the menu bar will contain options for creating and deleting cells

File Edit View Insert Cell Kernel Help

- ▶ make sure to periodically save your progress by clicking on the save button in the toolbar



Including code in an IJulia notebook

- ▶ you can include the code in the `hello.jl` file you previously uploaded by creating and running a cell like

```
In [1]: include("hello.jl")  
Out[1]: hello (generic function with 1 method)
```

- ▶ once the code is included, you can run the `hello` function that is included in `hello.jl`

```
In [2]: hello()  
Hello
```

Shutting down an IJulia notebook

- ▶ to shut down an IJulia notebook, first close the IJulia notebook page in your browser
- ▶ return to your JuliaBox page, click on the notebook you wish to shut down, and then click the orange Shutdown button

