Instalación julia

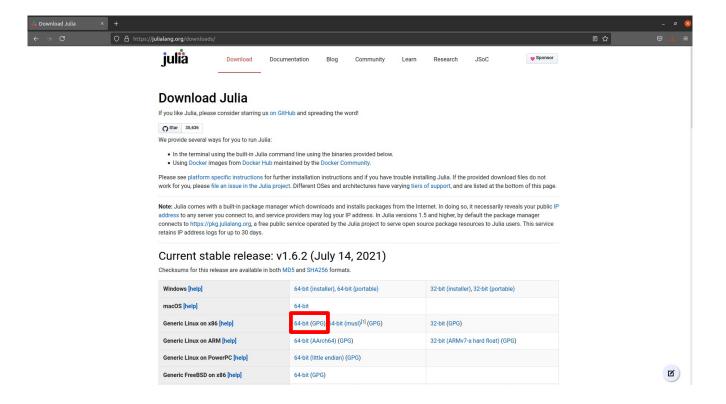
Descargar la última versión de Julia (v1.6.2 para esta ocasión): https://julialang.org/downloads/



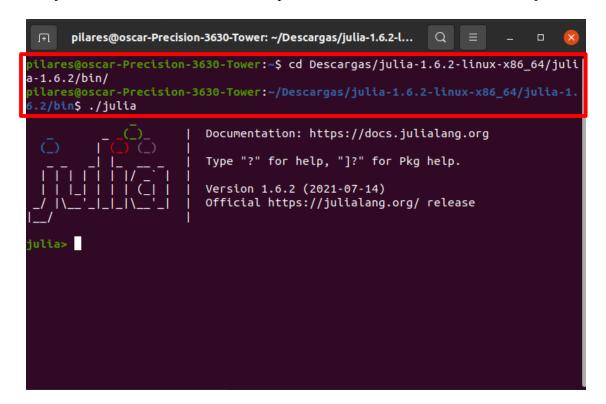
Ubuntu:



- → Para usar Julia desde la terminal (REPL):
 - Descargar versión de 64 bits: https://julialang-s3.julialang.org/bin/linux/x64/1.6/julia-1.6.2-linux-x86 64.tar.gz



- Extraer carpeta del archivo guardado
- En la terminal, navegar a <ruta_de_descarga>/julia-1.6.2-linux-x86_64/julia-1.6.2/bin
- Ejecutar el único archivo de esta carpeta desde la terminal con el comando ./julia



- → Para usar Julia en un Jupyter notebook:
 - ◆ Agregar la paquetería "IJulia" desde el REPL con los siguientes comandos: julia> using Pkg julia> Pkg.add("Ijulia")

```
julia> using Pkg; Pkg.add("IJulia")

Added registry 'General' to '~/.julia'

Resolving package versions...

Installed VersionParsing — v1.2.0

Installed SoftGlobalScope - v1.1.0
      Installed Conda -
      Installed libsodium_jll — v1.0.20+0
      Installed IJulia —
Installed ZMQ —
                                                          v1.23.2
      Installed JLLWrappers —
Installed MbedTLS —
                                                                           - v1.0.3
      Installed ZeroMQ_jll —
                                                                       --- v4.3.4+0
      Installed Parsers -
      Installed Preferences —
                                                                           - v1.2.2
      Installed JSON -
                                                                            - v0.21.1
    Downloaded artifact: libsodium
    Downloaded artifact: ZeroMQ
         Updating `~/.julia/environments/v1.6/Project.toml
         Updating `~/.julia/environments/v1.6/Manifest.toml
    Updating ~/.julta/environments/vi.

8406931 + Conda v1.5.2

7073ff75] + JJulia v1.23.2

692b3bcd] + JLLWrappers v1.3.0

682c06a0] + JSON v0.21.1

739be429] + MbedTLS v1.0.3

69de0a69] + Parsers v1.1.1

21216c6a] + Preferences v1.2.2

b85f4697] + SoftGlobalScope v1.1.0

81def892] + VersionParsing v1.2.0

c2297ded] + ZMQ v1.2.1

8f1865be] + ZeroMQ_jll v4.3.4+0

a9144af2] + libsodium_jll v1.0.20+0

9dad84c5] + ArgTools

56f22d72] + Artifacts

2a0f44e3] + Base64

ade2ca70] + Dates

[f43a241f] + Downloads

7b1f6079] + FileWatching

b77e0a4c] + InteractiveUtils

b27032c2] + LibGit2

[8599da3] + Libdi

[d6f4376e] + Markdown

ca575930] + NetworkOptions

[44cfe95a] + Pkg

de0858da] + Printf

[3fa0cd96] + REPL

[9a3f8284] + Random

[ea8e919c] + SHA

[9e88b42a] + Serialization

[6462f71f] + TOML

[a4e569a6] + Tar

[8dfed614] + Test

[cf7118a7] + UUIDs

[4ec0aa3e] + Unicode

[deac9b47] + LibCURL_jll

[29816b5a] + LibSSH2_jll

[846960ed] + MozillaCACerts_jll

[83775a58] + Zlib_jll

[84850ede] + nghttp2_jll

[84196933] + p7zip_jll
                                      Conda v1.5.
                              + IJulia v1.23.2
         e850ede] + nghttp2_jll
                               + p7zip_jll
        Building Conda → `~/.julia/scratchspaces/44cfe95a-1eb2-52ea-b672-e2afdf69b78f/299304989a5e6473d985212c28928899c74e9421/build.log`
Building IJulia → `~/.julia/scratchspaces/44cfe95a-1eb2-52ea-b672-e2afdf69b78f/d8b9c31196e1dd92181cd0f5760ca2d2ffb4ac0f/build.log`
             mpiling project...
   11 dependencies successfully precompiled in 5 seconds (4 already precompiled)
  ulia>
```

◆ Si ya se tiene instalado anaconda, inicializar Jupyter y crear un notebook con el kernel de julia 1.6.2



- Si no se tiene instalado anaconda, hacer lo siguiente:
 - Inicializar la paquetería IJulia con el comando julia> using IJulia
 - Tirar el siguiente comando para que se agregue Jupyter vía anaconda (se hace una instalación de miniconda):

julia> notebook()

```
julia> using IJulia
julia> notebook()
install Jupyter via Conda, y/n? [y]: y
 Info: Downloading miniconda installer ...
 Info: Installing miniconda ...
PREFIX=/home/pilares/.julia/conda/3
Unpacking payload ...
Collecting package metadata (current_repodata.json): done
Solving environment: done
## Package Plan ##
  environment location: /home/pilares/.julia/conda/3
  added / updated specs:
    - _libgcc_mutex==0.1=main
     _openmp_mutex==4.5=1_gnu
    brotlipy==0.7.0=py39h27cfd23_1003
    ca-certificates==2021.7.5=h06a4308_1
     certifi==2021.5.30=py39h06a4308_0
     cffi==1.14.6=py39h400218f_0
    - chardet==4.0.0=py39h06a4308_1003
    conda-package-handling==1.7.3=py39h27cfd23_1
    - conda==4.10.3=py39h06a4308_0
    - cryptography==3.4.7=py39hd23ed53_0
      idna==2.10=pyhd3eb1b0_0
```

• Se abrirá la interfaz de Jupyter, abrimos un notebook nuevo:

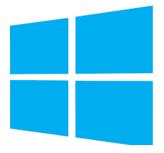


Una vez que ya se tiene instalado todo, para la siguiente vez que quieras abrir un un notebook tendrás que entrar al REPL de julia como se indicó al principio, tirar los siguientes comandos

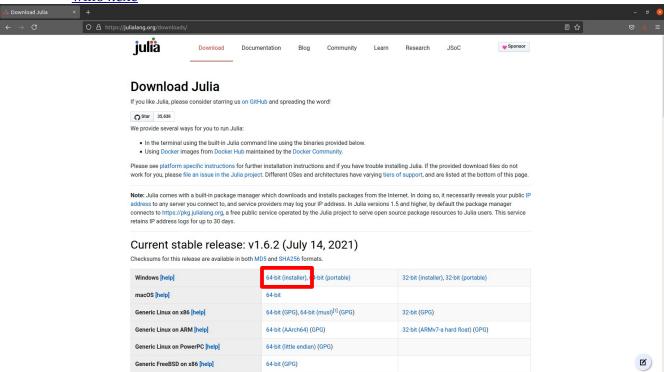
julia> using Ijulia julia> notebook()

Si ya tenías anaconda previamente instalado, entra al ambiente de Jupyter como lo haces normalmente (con el comando \$ jupyter notebook) y podrás crear un notebook con kernel de Julia tal como se hace en python siempre.

Windows:



- → Para usar Julia desde la terminal (REPL):
 - Descargar versión de 64 bits: https://julialang-s3.julialang.org/bin/winnt/x64/1.6/julia-1.6.2-win64.exe



- Ejecutar el archivo descargado y seguir las instrucciones para la instalación.
- Buscar en las aplicaciones de Windows Julia y abrir



```
Documentation: https://docs.julialang.org

Type "?" for help, "]?" for Pkg help.

Version 1.6.2 (2021-07-14)
Official https://julialang.org/ release

julia>
```

ESTO ES EL REPL

- → Para usar Julia en un Jupyter notebook:
 - ◆ Agregar la paquetería "IJulia" desde el REPL con los siguientes comandos: julia> using Pkg julia> Pkg.add("Ijulia")

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                                                                                                                       v1.2.1
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              7073ff75] + IJulia v1.23.2
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              Building Conda \rightarrow \ \ /\ .julia/scratchspaces/44cfe95a-1eb2-52ea-b672-e2afdf69b78f/299304989a5e6473d985212c28928899c74e9421/build.log Building IJulia \rightarrow \ \ /\ .julia/scratchspaces/44cfe95a-1eb2-52ea-b672-e2afdf69b78f/d8b9c31196e1dd92181cd0f5760ca2d2ffb4ac0f/build.log
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julia> notebook()

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  environment location: /home/pilares/.julia/conda/3
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     certifi==2021.5.30=py39h06a4308_0
     cffi==1.14.6=py39h400218f_0
    - chardet==4.0.0=py39h06a4308_1003
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      idna==2.10=pyhd3eb1b0_0
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