

## Prática 1 – Preparação do Ambiente – NÃO INSTALE TUDO – CONHEÇA O AMBIENTE

**ESTA AULA É DE EXPLORAÇÃO DAS POSSIBILIDADES NÃO INSTALE, NÃO INSTALE**

**Sua máquina tem deep freeze????????????**

**Sua máquina tem bloqueios ?????????????**

**Sua máquina é usada para acessar banco????**

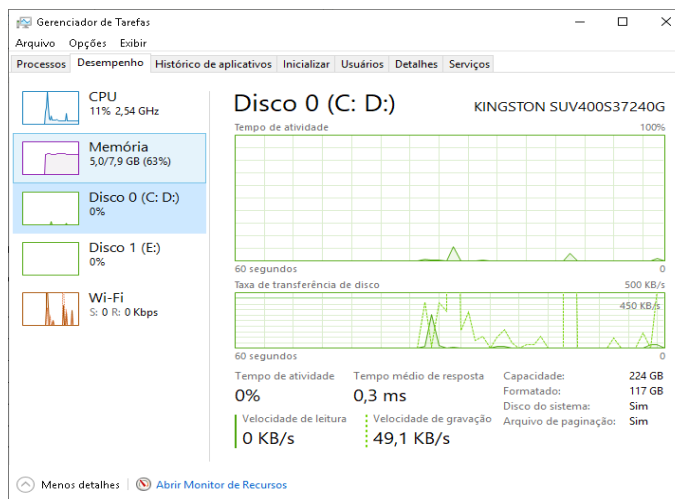
### Ferramentas utilizadas:

Linguagem python  
Banco de dados  
Linguagem R  
Tableau  
Simuladores  
Framework  
Base de dados e repositórios

### Procedimentos:

- 1) Verificar no gerenciador de tarefas as características do seu computador

Tipo processador	
Qte de memória Ram	
Espaço em disco	
Número de CPUs lógicas ou virtuais	
Suporta virtualização?	
Sistema Operacional	



- 2) Ferramenta R Studio

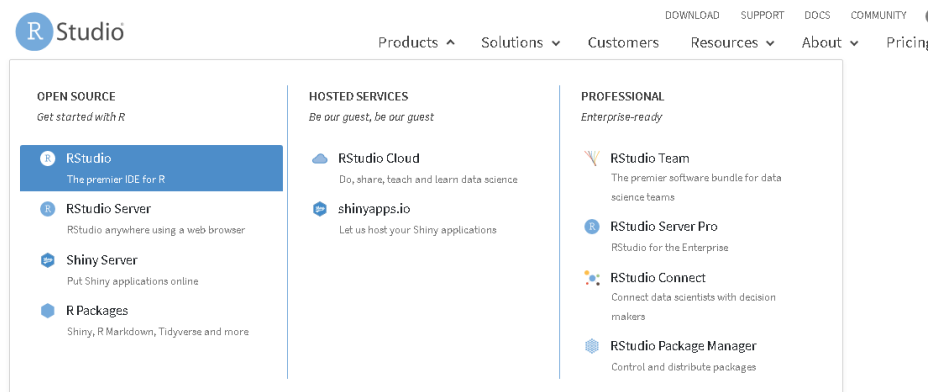
Vá no link abaixo e verifique os requisitos da ferramenta

<https://rstudio.com/>

Hardware suportado  
Sistema Operacional  
Tipo de Licença

## Necessidade de Packages & Libraries

Obs: Será sua responsabilidade a instalação e portanto quaisquer problemas de incompatibilidade ou uso indevido, desinstalação é exclusiva do aluno.



RStudio is a set of integrated tools designed to help you be more productive with R. It includes a console, syntax-highlighting editor that supports direct code execution, and a variety of robust tools for plotting, viewing history, debugging and managing your workspace.

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RStudio's new solution for every professional data science team. RStudio Team includes RStudio Server Pro, RStudio Connect and RStudio Package Manager.

[LEARN MORE](#)

RStudio Desktop	RStudio Desktop	RStudio Server	RStudio Server Pro
Open Source License	Commercial License	Open Source License	Commercial License
<b>Free</b>	<b>\$995</b>	<b>Free</b>	<b>\$4,975</b>
	/year		/year (5 Named Users)
<a href="#">DOWNLOAD</a>	<a href="#">BUY</a>	<a href="#">DOWNLOAD</a>	<a href="#">BUY</a>

## Projeto R Nativo

<https://cran.r-project.org/>



The Comprehensive R Archive Network

Download and Install R

Precompiled binary distributions of the base system and contributed packages, **Windows and Mac** users most likely want one of these versions of R:

- [Download R for Linux](#)
- [Download R for \(Mac\) OS X](#)
- [Download R for Windows](#)

R is part of many Linux distributions, you should check with your Linux package management system in addition to the link above.

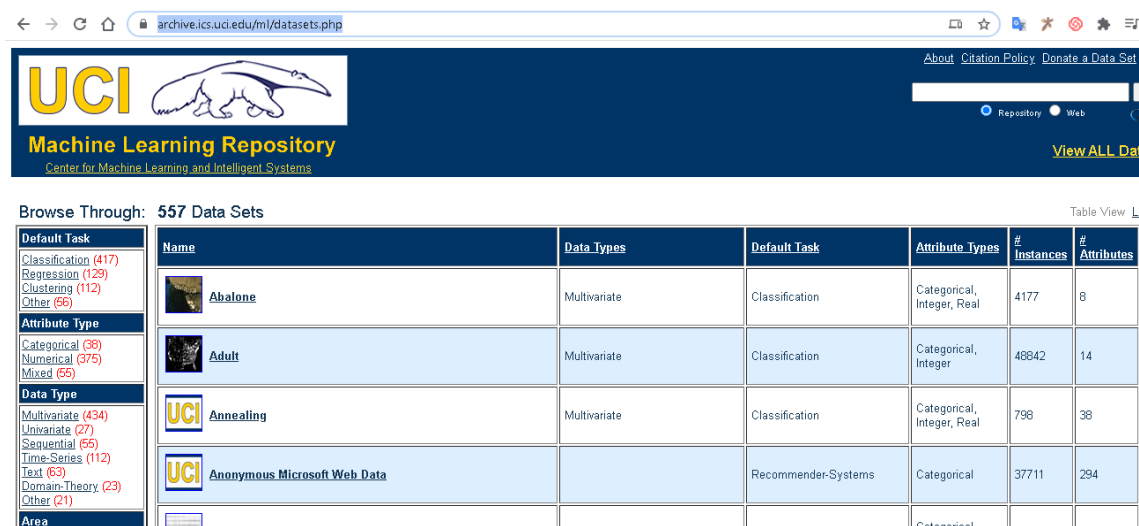
Source Code for all Platforms

Windows and Mac users most likely want to download the precompiled binaries listed in the upper box, not the source code. The sources have to be compiled before you can use them. If you do not know what this means, you probably do not want to do it!

- The latest release (2020-06-22, Taking Off Again) [R-4.0.2 tar.gz](#), read [what's new](#) in the latest version.
- Sources of [R alpha and beta releases](#) (daily snapshots, created only in time periods before a planned release).
- Daily snapshots of current patched and development versions are [available here](#). Please read about [new features and bug fixes](#) before filing corresponding feature requests or bug reports.
- Source code of older versions of R is [available here](#).
- Contributed extension [packages](#)

Repositórios utilizados pela comunidade R

<https://archive.ics.uci.edu/ml/datasets.php>



UCI Machine Learning Repository





Center for Machine Learning and Intelligent Systems

About Citation Policy Donate a Data Set

Repository Web

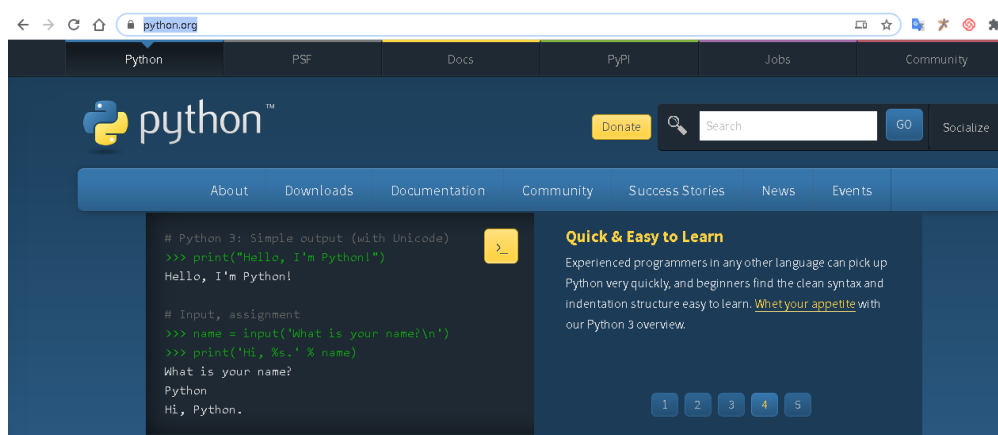
View ALL Data Sets

Browse Through: 557 Data Sets

Default Task	Name	Data Types	Default Task	Attribute Types	# Instances	# Attributes
Classification (417) Regression (129) Clustering (112) Other (66)	 <b>Abalone</b>	Multivariate	Classification	Categorical, Integer, Real	4177	8
Attribute Type Categorical (38) Numerical (375) Mixed (55)	 <b>Adult</b>	Multivariate	Classification	Categorical, Integer	48842	14
Data Type Multivariate (434) Univariate (27) Sequential (65) Time-Series (112) Text (63) Domain-Theory (23) Other (21)	 <b>Annealing</b>	Multivariate	Classification	Categorical, Integer, Real	798	38
Area	 <b>Anonymous Microsoft Web Data</b>		Recommender-Systems	Categorical	37711	294

Vamos falar de Python

<https://www.python.org/>



python™

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```
# Python 3: Simple output (with Unicode)
>>> print("Hello, I'm Python!")
Hello, I'm Python!

# Input, assignment
>>> name = input("What is your name?\n")
>>> print("Hi, %s." % name)
What is your name?
Python
Hi, Python.
```

**Quick & Easy to Learn**

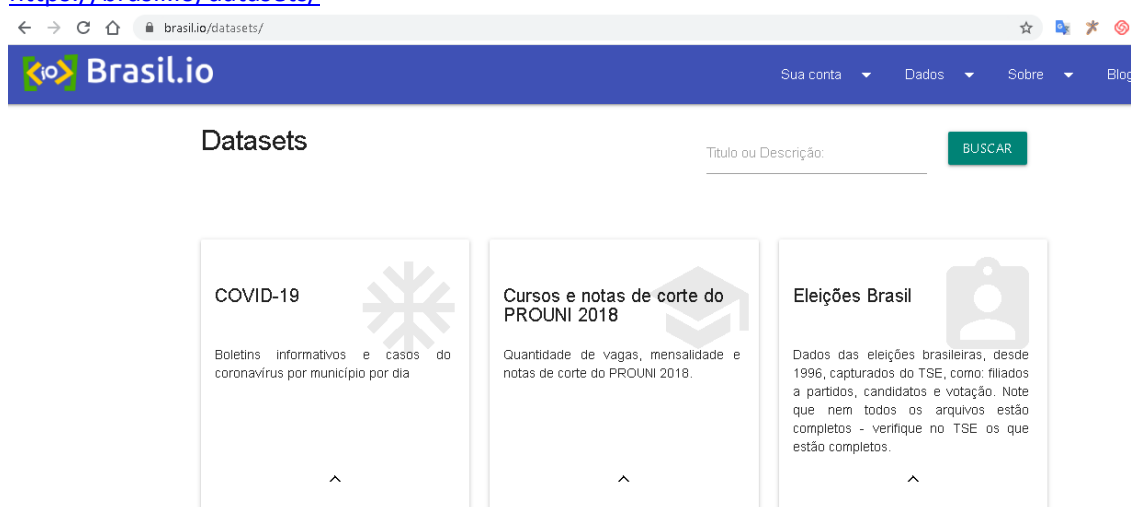
Experienced programmers in any other language can pick up Python very quickly, and beginners find the clean syntax and indentation structure easy to learn. [What your appetite](#) with our Python 3 overview.

1 2 3 4 5

<https://jupyter.org/>



<https://brasil.io/datasets/>



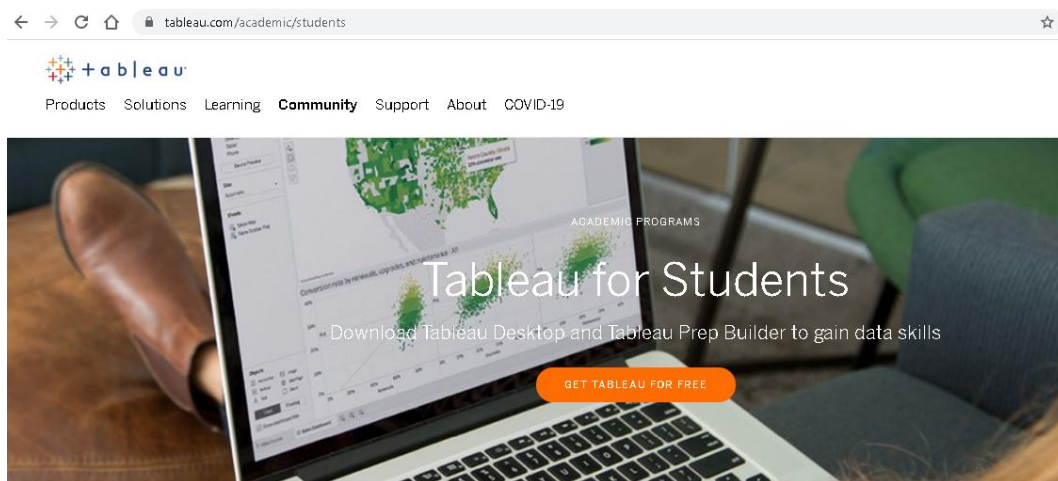
Banco de Dados

<https://www.mysql.com/>

Ambiente CLI

Tableau

<https://www.tableau.com/academic/students>



Simuladores em Cloud ou Free

<https://repl.it/languages/python3>

<http://www.pythontutor.com/visualize.html#mode=edit>

[https://www.onlinegdb.com/online\\_python\\_interpreter](https://www.onlinegdb.com/online_python_interpreter)

<https://mathcs.holycross.edu/~kwalsh/python/>

Emulador de tudo:

<https://tio.run/#>

Framework:

<https://www.djangoproject.com/>