

## BEFORE STARTING

### Why do I need Anaconda Distribution?

Many scientific packages require a specific version of Python to run. It's difficult to keep various Python installations on one computer from interacting and breaking, and harder to keep them up-to-date. Anaconda Distribution makes management of multiple Python versions on one computer easier, and provides a large collection of highly-optimized, commonly-used data science libraries to get you started faster.

### What is Anaconda Distribution?

An easy-to-install collection of high performance Python libraries, along with conda, our tool for managing packages and environments. Beyond the collection of open source packages in the Anaconda installer, you can use conda to install over 1.5k packages (including the R language) from the Anaconda public repository and more than 20k packages from community channels, such as conda-forge and bioconda.

### What is Miniconda?

Miniconda is conda and its dependencies. With Miniconda, you can build your environments from scratch by installing only the packages needed to run the conda command. It's a much smaller installer, typically used with an active internet connection.

```
conda install PACKAGENAME
```

**Example:** `conda install anaconda-navigator`

## DOWNLOADING

### Will it work on my machine?

Anaconda Distribution is available for Windows 10 x86\_64 and newer, macOS 10.10 and newer, or any Linux distribution with a glibc version greater than 2.17 (CentOS 7). The Anaconda Distribution install requires 3.5 GB and Miniconda requires 400 MB.

### Quick install

<https://docs.anaconda.com/anaconda/install>

### Getting started with Anaconda

<https://docs.anaconda.com/anaconda/user-guide/getting-started>

### Getting started with conda

[docs.conda.io/projects/conda/en/latest/user-guide/getting-started.html](https://docs.conda.io/projects/conda/en/latest/user-guide/getting-started.html)

## EXPLORING

### Packages included in Anaconda 4.4+, or installed with "`conda install PACKAGENAME`"

#### 1. NumPy

[numpy.org](https://numpy.org)

N-dimensional array for numerical computation

#### 2. SciPy

[scipy.org](https://scipy.org)

Scientific computing library for Python

#### 3. Matplotlib

[matplotlib.org](https://matplotlib.org)

2D Plotting library for Python

#### 4. Pandas

[pandas.pydata.org](https://pandas.pydata.org)

Powerful Python data structures  
and data analysis toolkit

#### 5. Seaborn

[seaborn.pydata.org/](https://seaborn.pydata.org/)

Statistical graphics library for Python

#### 6. Bokeh

[bokeh.org](https://bokeh.org)

Interactive web visualization library

#### 7. Scikit-Learn

[scikit-learn.org/stable](https://scikit-learn.org/stable)

Python modules for machine learning and data mining

#### 8. NLTK

[nltk.org](https://nltk.org)

Natural language toolkit

#### 9. Jupyter Notebook

[jupyter.org](https://jupyter.org)

Web app that allows you to create and share documents that contain live code, equations, visualizations, and explanatory text

#### 10. R essentials

[docs.anaconda.com/anaconda/user-guide/tasks/using-r-language/](https://docs.anaconda.com/anaconda/user-guide/tasks/using-r-language/)

80+ of the most used R packages for data science can be installed with "`conda install r-essentials`"

[Complete R package list](#)

[repo.anaconda.com/pkgs/r/](https://repo.anaconda.com/pkgs/r/)



# ANACONDA NAVIGATOR CHEAT SHEET

See full documentation for Anaconda Navigator:  
[docs.anaconda.com/navigator](https://docs.anaconda.com/navigator)

## BEFORE STARTING

### What is Anaconda Navigator?

A graphical interface for launching common Python programs without having to use command lines. It can also be used to install packages and manage your environments.

## INSTALLATION

### Will it work on my machine?

Anaconda Navigator is available for Windows, macOS, or Linux. Navigator is automatically installed with Anaconda Distribution.

### Installation instructions

[docs.anaconda.com/anaconda/install](https://docs.anaconda.com/anaconda/install)

### Open Anaconda Navigator

On Windows, the installer will create a Start menu shortcut for Navigator. On macOS, if using the GUI (.pkg) installer, you'll get an icon for Navigator in Launchpad. On Linux or macOS installed via .sh installer, open a terminal and enter this command:  
`anaconda-navigator`

## EXPLORING

The screenshot shows the Anaconda Navigator application interface. At the top, it says "ANACONDA NAVIGATOR" and "signed in as whit1" with a "Sign out" button. Below the header, there's a "Home" button and a "Channels" dropdown menu. The main area displays a grid of application cards, each with an icon, name, version number, description, and a "Launch" or "Install" button. The cards include:

- JupyterLab** (v 0.14.0): An extensible environment for interactive and reproducible computing, based on the Jupyter Notebook and Architecture. [Launch]
- Notebook** (v 3.0.0): Web-based, interactive computing notebook environment. Edit and run human-readable docs while describing the data analysis. [Launch]
- Qt Console** (v 1.4.1): PyQt GUI that supports inline figures, proper multiline editing with syntax highlighting, graphical celltips, and more. [Launch]
- Spyder** (v 3.3.1): Scientific Python Development Environment. Powerful Python IDE with advanced editing, interactive testing, debugging and introspection features. [Launch]
- Glueviz** (v 0.13.3): Multidimensional data visualization across files. Explore relationships within and among related datasets. [Install]
- Orange3** (v 3.16.0): Component based data mining framework. Data visualization and data analysis for novice and expert. Interactive workflows with a large toolbox. [Install]
- RStudio** (v 1.1.456): A set of integrated tools designed to help you be more productive with R. Includes R. [Launch]
- VS Code** (v 1.29.1): Streamlined code editor with support for development operations like debugging. [Launch]

## MORE RESOURCES

Community support  
[community.anaconda.cloud](https://community.anaconda.cloud)

Self-paced Learning  
[learning.anaconda.cloud](https://learning.anaconda.cloud)

Consulting  
[anaconda.com/consulting](https://anaconda.com/consulting)

## Take Data Science to Your Organization

Anaconda Enterprise extends Anaconda Distribution by enabling data science teams to build, train, and deploy models at speed and scale, while fulfilling IT governance and security needs. Learn more at [www.anaconda.com/enterprise](https://www.anaconda.com/enterprise).

Follow us on Twitter [@anacondainc](https://twitter.com/anacondainc) and join the [#AnacondaCrew!](https://twitter.com/AnacondaCrew)

Connect with data scientists and developers and contribute to the open source movement at [anaconda.com/open-source](https://anaconda.com/open-source).

