



# ANACONDA CHEAT SHEET

See full user documentation for Anaconda  
[docs.continuum.io/anaconda](https://docs.continuum.io/anaconda)

## BEFORE YOU START

<b>Why do I need Anaconda?</b>	Installing Python from scratch is no joy. Many scientific packages require a specific version of Python or R computer language along with many dependencies. It's hard to keep packages from interacting with each other, and harder to keep them all updated. Anaconda makes getting and maintaining all these packages quick and easy.
<b>What is Anaconda?</b>	The open source version of Anaconda is an easy-to-install high performance Python and R distribution with a package manager, environment manager and collection of 720+ open source packages with free community support.
<b>Then what is Miniconda?</b>	It's Anaconda without the collection of 720 open source packages. With Miniconda you download only the packages you want with the conda command, <code>"conda install PACKAGENAME"</code>

## GET IT

<b>Will it work on my machine?</b>	Yes, Anaconda is available for Windows, OS X or Linux, 32- or 64-bit, 400 MB HD available. Miniconda same but needs only 3 MB HD.
<b>Quick Install It</b>	<a href="https://docs.continuum.io/anaconda/install">docs.continuum.io/anaconda/install</a>
<b>Get your conda cheat sheet</b>	<a href="https://conda.pydata.org/docs/using/cheatsheet.html">conda.pydata.org/docs/using/cheatsheet.html</a>
<b>Take the test drive</b>	<a href="https://conda.pydata.org/docs/test-drive.html">conda.pydata.org/docs/test-drive.html</a>

## NOW PLAY WITH THE WORLD'S MOST AWESOME DATA SCIENCE PACKAGES

Packaged included in Anaconda 4+, or get with `"conda install PACKAGENAME"`

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| <b>1. NumPy</b>   <a href="http://numpy.org">numpy.org</a><br>N-dimensional array for numerical computation  | <b>7. SciKit-Learn</b>   <a href="http://scikit-learn.org/stable">scikit-learn.org/stable</a><br>Python modules for machine learning and data mining   |
| <b>2. SciPy</b>   <a href="http://scipy.org">scipy.org</a><br>Collection of numerical algorithms and toolboxes, including signal processing and optimization | <b>8. NLTK</b>   <a href="http://nltk.org">nltk.org</a><br>Natural language toolkit  |
| <b>3. Matplotlib</b>   <a href="http://matplotlib.org">matplotlib.org</a><br>Plotting library for Python   | <b>9. Notebook</b>   <a href="http://jupyter.org">jupyter.org</a><br>Web-based interactive computational environment combines code execution, rich text, mathematics, plots and rich media   |
| <b>4. Pandas</b>   <a href="http://pandas.pydata.org">pandas.pydata.org</a><br>Powerful Python data analysis toolkit   | <b>10. R essentials</b>   <a href="https://conda.pydata.org/docs/r-with-conda.html">conda.pydata.org/docs/r-with-conda.html</a><br>R with 80+ of the most used R packages for data science<br><code>"conda install -c r r-essentials"</code> |
| <b>5. Seaborn</b>   <a href="http://stanford.edu/~mwaskom/software/seaborn/">stanford.edu/~mwaskom/software/seaborn/</a><br>Statistical data visualization   |  |
| <b>6. Bokeh</b>   <a href="http://bokeh.pydata.org">bokeh.pydata.org</a><br>Interactive web visualization library  |  |

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