

# External Resources, Videos and Talks

For written tutorials, see the [Tutorial section](#) of the documentation.

## New to Scientific Python?

For those that are still new to the scientific Python ecosystem, we highly recommend the [Python Scientific Lecture Notes](#). This will help you find your footing a bit and will definitely improve your scikit-learn experience. A basic understanding of NumPy arrays is recommended to make the most of scikit-learn.

## External Tutorials

There are several online tutorials available which are geared toward specific subject areas:

- [Machine Learning for NeuroImaging in Python](#)
- [Machine Learning for Astronomical Data Analysis](#)

And a list of more general tutorials:

- [A Bit of Data Science and Sklearn](#), a 16 part tutorial that goes over the essential parts of sklearn used in data science.

## Conference Talks

- An introduction to scikit-learn [Part I](#) and [Part II](#) at Scipy 2013 by [Gael Varoquaux](#), [Jake Vanderplas](#) and [Olivier Grisel](#). Notebooks on [github](#).
- [Introduction to scikit-learn](#) by [Gael Varoquaux](#) at ICML 2010
  - A three minute video from a very early stage of the scikit, explaining the basic idea and approach we are following.
- [Introduction to statistical learning with scikit-learn](#) by [Gael Varoquaux](#) at SciPy 2011
  - An extensive tutorial, consisting of four sessions of one hour. The tutorial covers the basics of machine learning, many algorithms and how to apply them using scikit-learn.
- [Statistical Learning for Text Classification with scikit-learn and NLTK](#) (and [slides](#)) by [Olivier Grisel](#) at PyCon 2011
  - Thirty minute introduction to text classification. Explains how to use NLTK and scikit-learn to solve real-world text classification tasks and compares against cloud-based solutions.
- [Introduction to Interactive Predictive Analytics in Python with scikit-learn](#) by [Olivier Grisel](#) at PyCon 2012
  - 3-hours long introduction to prediction tasks using scikit-learn.
- [scikit-learn - Machine Learning in Python](#) by [Jake Vanderplas](#) at the 2012 PyData workshop at Google
  - Interactive demonstration of some scikit-learn features. 75 minutes.
- [scikit-learn tutorial](#) by [Jake Vanderplas](#) at PyData NYC 2012
  - Presentation using the online tutorial, 45 minutes.