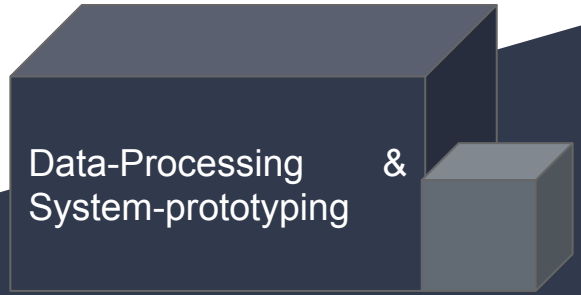
- Primer release 2001.
- Última versión 1.8.0 5 febrero 2022

Datos a 5 de marzo de 2022

SciPy

Utilidad principal

Creada como una *extensión de Numpy*, está compuesto de *algoritmos matemáticos (optimización, integración, interpolación, problemas de valores propios, ecuaciones algebraicas, ecuaciones diferenciales, estadísticas)* y otras funciones convenientes que proveen al usuario de *comandos de alto nivel* y clases para la **manipulación y visualización de datos**.



2001 - ver. 1.0
7/2022 - ver. 1.9

Documentación

https://docs.scipy.org/doc/

- Special functions (**scipy.special**) the definition of numerous special functions of mathematical physics.
- Integration (**scipy.integrate**)sub-package provides several integration techniques including an ordinary differential equation integrator.
- Optimization (**scipy.optimize**) provides several commonly used optimization algorithms.
- Interpolation (**scipy.interpolate**)There are several general interpolation facilities available for data in 1, 2, and higher dimensions
- Fourier Transforms (**scipy.fft**) Fourier analysis is a method for expressing a function as a sum of periodic components, and for recovering the signal from those components.
- Signal Processing (**scipy.signal**) The signal processing toolbox currently contains some filtering functions, a limited set of filter design tools, and a few B-spline interpolation algorithms for 1- and 2-D data.
- Linear Algebra (**scipy.linalg**) Contains all the functions in numpy.linalg. plus some other more advanced ones not contained in numpy.linalg.
- Sparse eigenvalue problems with ARPACK. Is a Fortran package which provides routines for quickly finding a few eigenvalues/eigenvectors of large sparse matrices.
- Compressed Sparse Graph Routines (**scipy.sparse.csgraph**)
- Spatial data structures and algorithms (**scipy.spatial**) Can compute triangulations, Voronoi diagrams, and convex hulls of a set of points, by leveraging the Qhull library.
- Statistics (**scipy.stats**) Discrete Statistical Distributions, Continuous Statistical Distributions
- Multidimensional image processing (**scipy.ndimage**) provides a number of general image processing and analysis functions that are designed to operate with arrays of arbitrary dimensionality.
- File IO (**scipy.io**) This is the package from which loadmat, savemat, and whosmat are imported.

Repo e issues

Más comentado:

Mejora: se incorpora un conjunto de funciones para crear y evaluar el diseño de experimentos cuasi-Monte Carlo.

Mejora: se integra métodos para muestreo de distribuciones continuas y discretas univariadas de la biblioteca UNU.RAN

Más reciente:

BUG: Memory Error in scipy.sparse.splu

Documentación: Extensiones SciPy para estilo de código y pautas de cadenas de documentación.