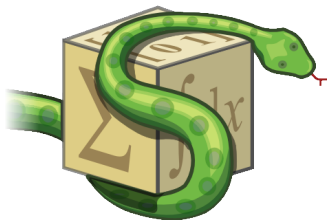


SymPy

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March 15, 2013



- Category theory
- Combinatorics (group theory)
- Differential geometry
- Functions
- Geometric algebra
- Geometry
- Integration
- Logic
- Matrices
- Number Theory
- Physics
- Plotting
- Polynomials
- Solvers
- Statistics
- Tensors

Installing SymPy

From source (<https://code.google.com/p/sympy/downloads/list>)

```
$ python setup.py install
```

Python 3

```
$ ./bin/use2to3  
$ cd py3k-sympy  
$ python setup.py install
```

Pip

```
$ pip install sympy
```

Running SymPy

Python Session

```
>>> from sympy import *
```

Interactive session

```
$ ./bin/isympy
```

Interactive IPython

```
$ ipython --profile=sympy
```

Dependencies

None! (other than Python)
 ≥ 2.5 including 3.2 (3.3?)

But can be integrated with:

- IPython
- gmpy
- NumPy
- SciPy
- pyglet/matplotlib

Live Demo!