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# **sobol Documentation**

***Release 0.1***

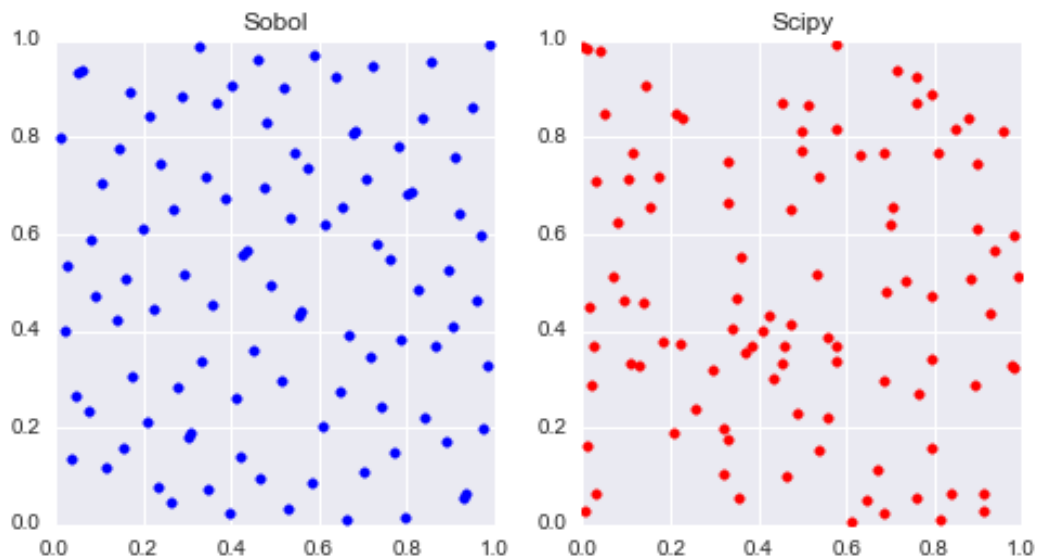
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July 06, 2015



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## Original authors

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- Original FORTRAN77 version by Bennett Fox
- Original MATLAB version by John Burkardt
- Original PYTHON version by Corrado Chisari

Original code: [http://people.sc.fsu.edu/~jburkardt/py\\_src/sobol/sobol.html](http://people.sc.fsu.edu/~jburkardt/py_src/sobol/sobol.html)





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## Functions

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`sobol.sobol.sobol_rvs` (*size=10, skip=10*)

Generates a Sobol pseudo-random dataset.

**Parameters** `size` : int or tuple

Size of the output array. If tuple, then the second dimension is bounded by 40.

**skip** : int

Number of initial points to skip

**Returns** array

Random numbers

**Raises** `ValueError`

### Examples

```
>>> from sobol import sobol_rvs
>>> rvs = sobol_rvs(size=(2, 3), skip=1000)
>>> print(rvs)
[[ 0.15722656  0.21972656  0.71972656]
 [ 0.90917969  0.09667969  0.59667969]]
```



## S

`sobol.sobol`, [1](#)



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`sobol.sobol` (module), [1](#)

`sobol_rvs()` (in module `sobol.sobol`), [5](#)