



Scipy.org (<http://scipy.org/>) Docs (<http://docs.scipy.org/>)

NumPy v1.10 Manual ([../index.html](http://docs.scipy.org/doc/numpy/reference/generated/numpy.subtract.html)) NumPy Reference ([../index.html](http://docs.scipy.org/doc/numpy/reference/))

Routines ([../routines.html](http://docs.scipy.org/doc/numpy/reference/routines.html)) Mathematical functions ([../routines.math.html](http://docs.scipy.org/doc/numpy/reference/routines.math.html))

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numpy.subtract

numpy.subtract(x1, x2[, out]) = <ufunc 'subtract'>

Subtract arguments, element-wise.

Parameters: `x1, x2` : array_like

The arrays to be subtracted from each other.

Returns: `y` : ndarray

The difference of `x1` and `x2`, element-wise. Returns a scalar if both `x1` and `x2` are scalars.

Previous topic

[numpy.power](http://docs.scipy.org/doc/numpy/reference/generated/numpy.power.html)
([numpy.power.html](http://docs.scipy.org/doc/numpy/reference/generated/numpy.power.html))

Next topic

[numpy.true_divide](http://docs.scipy.org/doc/numpy/reference/generated/numpy.true_divide.html)
([numpy.true_divide](http://docs.scipy.org/doc/numpy/reference/generated/numpy.true_divide.html))

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Notes

Equivalent to `x1 - x2` in terms of array broadcasting.

Examples

```
>>> np.subtract(1.0, 4.0)
-3.0
```

>>>

```
>>> x1 = np.arange(9.0).reshape((3, 3))
>>> x2 = np.arange(3.0)
>>> np.subtract(x1, x2)
array([[ 0.,  0.,  0.],
       [ 3.,  3.,  3.],
       [ 6.,  6.,  6.]])
```

>>>

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