

```
from scipy import constants
print(dir(constants))
```

```
['Avogadro', 'Boltzmann', 'Btu', 'Btu_IT', 'Btu_th', 'ConstantWarning', 'G', 'Julian_year', 'N_A', 'Planck', 'R', 'Rydberg', 'Stefan_Bol
```

 **Generate**

a slider using jupyter widgets



Close

```
print(constants.yotta)
print(constants.zetta)
print(constants.exa)
print(constants.peta)
print(constants.tera)
print(constants.giga)
print(constants.mega)
print(constants.kilo)
print(constants.hecto)
print(constants.deka)
print(constants.deci)
print(constants.centi)
print(constants.milli)
print(constants.micro)
print(constants.nano)
print(constants.pico)
print(constants.femto)
print(constants.atto)
print(constants.zepto)
```

```
1e+24
1e+21
1e+18
1000000000000000.0
100000000000000.0
1000000000.0
1000000.0
1000.0
100.0
10.0
0.1
0.01
0.001
1e-06
1e-09
1e-12
1e-15
1e-18
1e-21
```

```
print(constants.kibi)
print(constants.mebi)
print(constants.gibi)
print(constants.tebi)
print(constants.pebi)
print(constants.exbi)
print(constants.zebi)
print(constants.yobi)
```

```
1024
1048576
1073741824
1099511627776
1125899906842624
1152921504606846976
1180591620717411303424
1208925819614629174706176
```

```
print(constants.degree)
print(constants.arcmin)
print(constants.arcminute)
print(constants.arcsec)
print(constants.arcsecond)
```

```
0.017453292519943295
0.0002908882086657216
0.0002908882086657216
4.84813681109536e-06
```

4.84813681109536e-06

```
print(constants.minute)
print(constants.hour)
print(constants.day)
print(constants.week)
print(constants.year)
print(constants.Julian_year)
```

```
60.0
3600.0
86400.0
604800.0
31536000.0
31557600.0
```

```
print(constants.inch)
print(constants.foot)
print(constants.yard)
print(constants.mile)
print(constants.mil)
print(constants.pt)
print(constants.point)
print(constants.survey_foot)
print(constants.survey_mile)
print(constants.nautical_mile)
print(constants.fermi)
print(constants.angstrom)
print(constants.micron)
print(constants.au)
print(constants.astronomical_unit)
print(constants.light_year)
print(constants.parsec)
```

```
0.0254
0.30479999999999996
0.9143999999999999
1609.3439999999998
2.5399999999999997e-05
0.0003527777777777776
0.0003527777777777776
0.3048006096012192
1609.3472186944373
1852.0
1e-15
1e-10
1e-06
149597870700.0
149597870700.0
9460730472580800.0
3.085677581491367e+16
```

```
from scipy import linalg
import numpy as np
a = np.array([[3, 2, 0], [1, -1, 0], [0, 5, 1]])
b = np.array([2, 4, -1])
x = linalg.solve(a, b)
print(x)

[ 2. -2.  9.]
```

```
from scipy import linalg
import numpy as np
A = np.array([[1,2],[3,4]])
x = linalg.det(A)
print (x)

-2.0
```

```
from scipy import linalg
import numpy as np
A = np.array([[1,2],[3,4]])
l, v = linalg.eig(A)
print (l)
print (v)
```

```
[-0.37228132+0.j  5.37228132+0.j]
[[-0.82456484 -0.41597356]
 [ 0.56576746 -0.90937671]]
```

```
import numpy as np
array1 = np.array([1, 3, 5])
array2 = np.array([2, 4, 6])
result = np.dot(array1, array2)
print(result)
```

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```
array1 = np.array([[1, 3],[5, 7]])
array2 = np.array([[2, 4],[6, 8]])

result = np.inner(array1, array2)
print(result)
```

```
[[14 30]
 [38 86]]
```

```
array1 = np.array([1, 3, 5])
array2 = np.array([2, 4, 6])

result = np.outer(array1, array2)
print(result)
```

```
[[ 2  4  6]
 [ 6 12 18]
 [10 20 30]]
```

```
A = np.array([[2, 4],
 [6, 8]])
```

```
b = np.array([5, 6])
```

```
x = np.linalg.solve(A, b)
print(x)
```

```
[-2.    2.25]
```

```
import numpy as np
```

```
array1 = np.array([[6, 3, 5],
 [9, 2, 1],
 [7, 8, 4]])
result = np.trace(array1)
print(result)
```

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