

Create an empty table and add columns

```
>>> from astropy.table import Table, Column
>>> t = Table()
>>> t.add_column(Column(data=['a', 'b', 'c'],
...                        name='source'))
>>> t.add_column(Column(data=[1.2, 3.3, 5.3],
...                        name='flux'))
>>> print t
source flux
-----
a    1.2
b    3.3
c    5.3
```

Read a table from a file

```
>>> t1 = Table.read('catalog.vot')
>>> t1 = Table.read('catalog.tbl', format='ipac')
>>> t1 = Table.read('catalog.cds', format='cds')
```

Select all rows from t1 where the flux column is greater than 5

```
>>> t2 = t1[t1['flux'] > 5.0]
```

Manipulate columns

```
>>> t2.remove_column('J_mag')
>>> t2.rename_column('Source', 'sources')
```

Write a table to a file

```
>>> t2.write('new_catalog.hdf5')
>>> t2.write('new_catalog.rdb')
>>> t2.write('new_catalog.tex')
```