

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")
```