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CHAPTER  
ELEVEN

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## COLUMNS

Rich can render text or other Rich renderables in neat columns with the `Columns` class. To use, construct a `Columns` instance with an iterable of renderables and print it to the Console.

The following example is a very basic clone of the `ls` command in OSX / Linux to list directory contents:

```
import os
import sys

from rich import print
from rich.columns import Columns

if len(sys.argv) < 2:
    print("Usage: python columns.py DIRECTORY")
else:
    directory = os.listdir(sys.argv[1])
    columns = Columns(directory, equal=True, expand=True)
    print(columns)
```

See `columns.py` for an example which outputs columns containing more than just text.