# contextlib.redirect_stdout / redirect_stderr

The contextlib library has a couple of neat tools for redirecting stdout and stderr that were added in Python 3.4 and 3.5 respectively. Before these tools were added, if you wanted to redirect stdout, you would do something like this:

```python
import sys

path = 'text.txt'

with open(path, 'w') as fobj:
    sys.stdout = fobj
    help(sum)
```

With the contextlib module, you can now do the following:

```python
from contextlib import redirect_stdout

path = 'text.txt'
with open(path, 'w') as fobj:
    with redirect_stdout(fobj):
        help(redirect_stdout)
```

In both of these examples, we are redirecting stdout to a file. When we call Python's **help**, instead of printing to stdout, it gets saved directly to the file. You could also redirect stdout to some kind of buffer or a text control type widget from a user interface toolkit like Tkinter or wxPython.