

# **Standard Output and Standard Error**

# stdout and stderr

Standard output ("stdout") can be redirected with "> filename.txt".  
Standard error ("stderr") is redirected with "2> filename.txt".

Examples: (On Windows, use `type` instead of `cat`)

```
% python -c 'print("Hello")' > output.txt 2> error.txt
% cat output.txt
Hello
% cat error.txt
%
```

```
% python -c 'int main() {printf("Hello\n");}' > output.txt 2> error.txt
% cat output.txt
% cat error.txt
File "<string>", line 1
    int main() {printf("Hello\n");}
    ^
SyntaxError: invalid syntax
```

# Useful concept

The ideas of `stdout` and `stderr` apply to all languages, and all operating systems. You'll find this knowledge useful in the coming years.

There is also the idea of "standard input", or `stdin` - an input channel for the process.