

CS50's Introduction to Programming with Python

OpenCourseWare

Donate [🔗](https://cs50.harvard.edu/donate) (https://cs50.harvard.edu/donate)

David J. Malan (https://cs.harvard.edu/malan/)

malan@harvard.edu

[f](https://www.facebook.com/dmalan) (https://www.facebook.com/dmalan)
 [G](https://github.com/dmalan) (https://github.com/dmalan)
 [@](https://www.instagram.com/davidjmalan/) (https://www.instagram.com/davidjmalan/)
 [in](https://www.linkedin.com/in/malan/) (https://www.linkedin.com/in/malan/)
 [id](https://orcid.org/0000-0001-5338-2522) (https://orcid.org/0000-0001-5338-2522)
 [Q](https://www.quora.com/profile/David-J-Malan) (https://www.quora.com/profile/David-J-Malan)
 [r](https://www.reddit.com/user/davidjmalan) (https://www.reddit.com/user/davidjmalan)
 [T](https://www.tiktok.com/@davidjmalan) (https://www.tiktok.com/@davidjmalan)
 [T](https://twitter.com/davidjmalan) (https://twitter.com/davidjmalan)

Frank, Ian and Glen's Letters

FIGlet (<https://en.wikipedia.org/wiki/FIGlet>), named after **Frank, Ian, and Glen's letters** (<http://www.figlet.org/faq.html>), is a program from the early 1990s for making large letters out of ordinary text, a form of **ASCII art** (https://en.wikipedia.org/wiki/ASCII_art):

```

_ _ _ _ _      _ _ _      _
| ( _ ) | ____ | | | | _ ( _ ) ____
| | | | / / _ \ | _ | ' _ \ / _ |
| | | | < _ / | | | | | | \ _ \
|_|_|_| \ \ _ | \_|_| |_|_|_| _/

```

Among the fonts supported by FIGlet are those at [figlet.org/examples.html](http://www.figlet.org/examples.html) (<http://www.figlet.org/examples.html>).

FIGlet has since been ported to Python as a module called **pyfiglet** (<https://pypi.org/project/pyfiglet/0.7/>).

In a file called `figlet.py`, implement a program that:

- Expects zero or two command-line arguments:
 - Zero if the user would like to output text in a random font.
 - Two if the user would like to output text in a specific font, in which case the first of the two should be `-f` or `--font`, and the second of the two should be the name of the font.
- Prompts the user for a `str` of text.
- Outputs that text in the desired font.

If the user provides two command-line arguments and the first is not `-f` or `--font` or the second is not the name of a font, the program should exit via `sys.exit` with an error message.

▼ Hints

- You can install `pyfiglet` with:

```
pip install pyfiglet
```

- The documentation for `pyfiglet` isn't very clear, but you can use the module as follows:

```
from pyfiglet import Figlet

figlet = Figlet()
```

You can then get a `list` of available fonts with code like this:

```
figlet.getFonts()
```

You can set the font with code like this, wherein `f` is the font's name as a `str`:

```
figlet.setFont(font=f)
```

```
print(figlet.renderText(s))
```

- ## Demo

```
$ python figlet.py -f slant
Input: hello, world
Output:
```

```
$ python figlet.py --font red
```

Before You Begin

\$

```
mkdir figlet
```

```
cd figlet
```

```
code figlet.py
```

How to Test

Invalid usage

- Invalid usage

- Invalid usage

- / ____ / __ // ____ / _ \
 / / _ \ / _ \ / / / /
 / / _ _ / / _ \ / _ \ /
 \ _ _ // _ _ / \ _ _ /

- [illegible]

- ```

M M
MM MM
M M M 000 000
M M 0 0 0 0
M M 000 000

```

```
check50 cs50/problems/2022/python/figlet
```

## How to Submit

```
submit50 cs50/problems/2022/python/figlet
```

