Using Docopt.cpp

🔗 `docopt.cpp` : A C++11 Port

doctopt creates *beautiful* command-line interfaces

Isn't it awesome how `getopt` (and `boost::program_options` for you fancy folk!) generate help messages based on your code?! These timeless functions have been around for decades and have proven we don't need anything better, right?

Hell no! You know what's awesome? It's when the option parser *is* generated based on the beautiful help message that you write yourself! This way you don't need to write this stupid repeatable parser-code, and instead can write only the help message--*the way you want it*.

docopt helps you create most beautiful command-line interfaces *easily*:

```cpp
#include "docopt.h"

#include <iostream>

static const char USAGE[] =
R"(Naval Fate.

    Usage:
      naval_fate ship new <name>...
      naval_fate ship <name> move <x> <y> [--speed=<kn>]
      naval_fate ship shoot <x> <y>
      naval_fate mine (set|remove) <x> <y> [--moored | --drifting]
```

Parse docstring into option parser

Commands, options, and positional arguments

- Optional []

- Required ()

- Mutually exclusive |

- Repeating …

Long and short formats

```
Naval Fate.

Usage:
  naval_fate ship new <name>...
  naval_fate ship <name> move <x> <y> [--speed=<kn>]
  naval_fate ship shoot <x> <y>
  naval_fate mine (set|remove) <x> <y> [--moored|--drifting]
  naval_fate -h | --help
  naval_fate --version

Options:
  -h --help      Show this screen.
  --version      Show version.
  --speed=<kn>   Speed in knots [default: 10].
  --moored       Moored (anchored) mine.
  --drifting     Drifting mine.
```

Demo

Documentation

Main website

- http://docopt.org

Jared Grubb's C++11 port

- https://github.com/docopt/docopt.cpp

My use cases

- https://github.com/acgetchell/CDT-plusplus/blob/master/src/cdt.cpp

- https://github.com/acgetchell/CDT-plusplus/blob/master/src/cdt-gv.cpp