panpdf readme

What is panpdf?

`panpdf` is a command line tool for converting Markdown dialect files to CSS styled HTML or PDF. This lets you keep code highlighting, and makes the markdown look *like markdown* - and not like LaTeX (which is often great but not always ideal).

It has two steps:
- `panhtml`: Creates a standalone HTML with custom CSS, using `pandoc` and some shell scripting. The CSS is embedded in the HTML since I've had issues embedding local CSS in the HTML files in other ways. (Pull requests welcome!!)
- `panpdf`: Creates a PDF formatted by the CSS. Currently implemented using `cupsfilter`. If necessary, first converts the input to HTML.

There are other software which do the same thing - search online for `Markdown to PDF` and you'll find alternatives! :)
However, I tried several of these tools but couldn't get them to work reliably. So - I decided to make `panpdf`.

Installation

`panpdf` has these dependencies:

- UNIX-like OS
- pandoc (https://pandoc.org) must be installed
- cupsfilter (https://www.cups.org/) must be installed

For a basic installation, run:

```
sudo ./install.sh
```

The scripts + CSS will then be installed in `/usr/local/panpdf/`, and symlinks for `panpdf`, `panhtml` will be added to `/usr/local/bin/`. `sudo` might be required due to folder creation in `/usr/local/` (it was for me atleast).

If you want, go ahead and modify the `config` file to choose your own install directory or CSS source URL. The config is interpreted as a shell script (`. config`), so don't modify the variable names. (I'm planning on adding a script to automate changing the config, eventually.)

The default CSS used is this one (https://github.com/eirikeve/Markdown-CSS), which is a print-friendly version of github.com/simonlc's Markdown-CSS (https://github.com/simonlc/Markdown-CSS).

After the installation, `panhtml` and `panpdf` should be usable.

Usage example

This is how the pdf file in example_output (example_output/README.pdf) was made.

```
eves@eves-mbp:~/Documents/Programming/panpdf$ panpdf README.md
&&
if [[ "$?" == "0" ]]; then
    printf "it worked! \n"
    open README.pdf
fi
it worked!
```

This is how the html file in example_output (example_output/README.html) was made.

```
eves@eves-mbp:~/Documents/Programming/panpdf$ panhtml README.md &&
if [[ "$?" == "0" ]]; then
    printf "it worked! \n"
    open README.html
fi
it worked!
```

Note: For the example output html file to be displayed correctly, you'll need to download it (since github shows it as plaintext).

Bugs?

There's probably a lot of bugs. Feel free to open an issue if you encounter one. Pull requests are also very welcome!

Snippets for the example output

Just so a bit more is displayed in the example output, here's:

- a blockquote,
- some LaTeX ,
- and some `c` code.

> This is a blockquote
> :)

This is a linear parametrization:

$$z = \theta^{*\top} \phi$$

```c
// A c program
#define SOME_MACRO "some macro"
int main(int argc, char *argv[]) {
    if (argc > 1) {
        for (int i = 1; i < argc; i++) {
            foo(argv[i]);
        }
    }
    return bar();
}
```

Credit & References

- github.com/simonlc's Markdown-CSS (https://github.com/simonlc/Markdown-CSS)
- CUPS (https://www.cups.org/)
- Pandoc (https://pandoc.org)