txtoflow

Release 1.0

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CHAPTER 1

txtoflow (Translate To Flowchart)

The Python library can be used to generate flowcharts from pseudo-code.

1.1 Installation

You may need to install the following graphviz tools and libraries first

On Ubuntu . . .

```
sudo apt-get install graphviz libgraphviz-dev pkg-config
```

Then

```
pip install txtoflow
```

1.2 Usage

```
from txtoflow import txtoflow

txtoflow.generate(
    '''
    if (A) {
        B;
    } else {
        C;
        D;
        while (E) {
            F;
        }
        G;
    }
```

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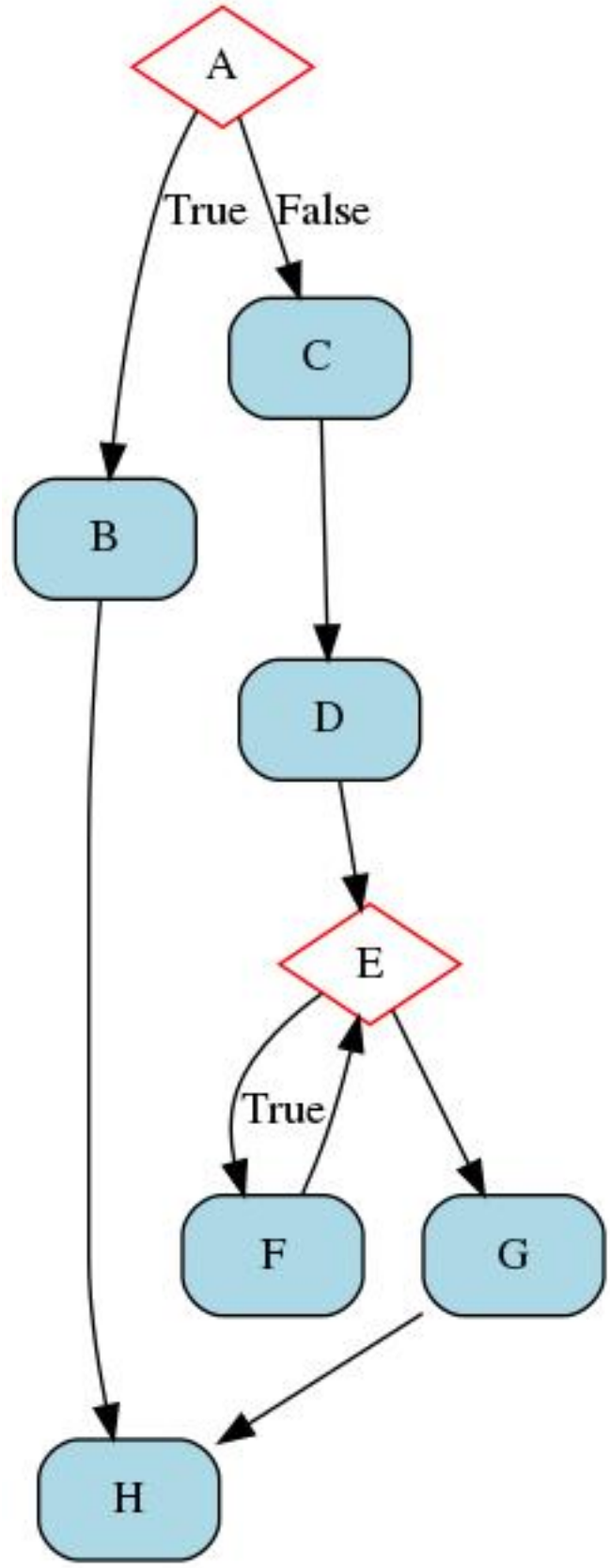
```
    H;
    '''
)
```

Will generate an image named `flowchart.jpg` in current dir that looks like below

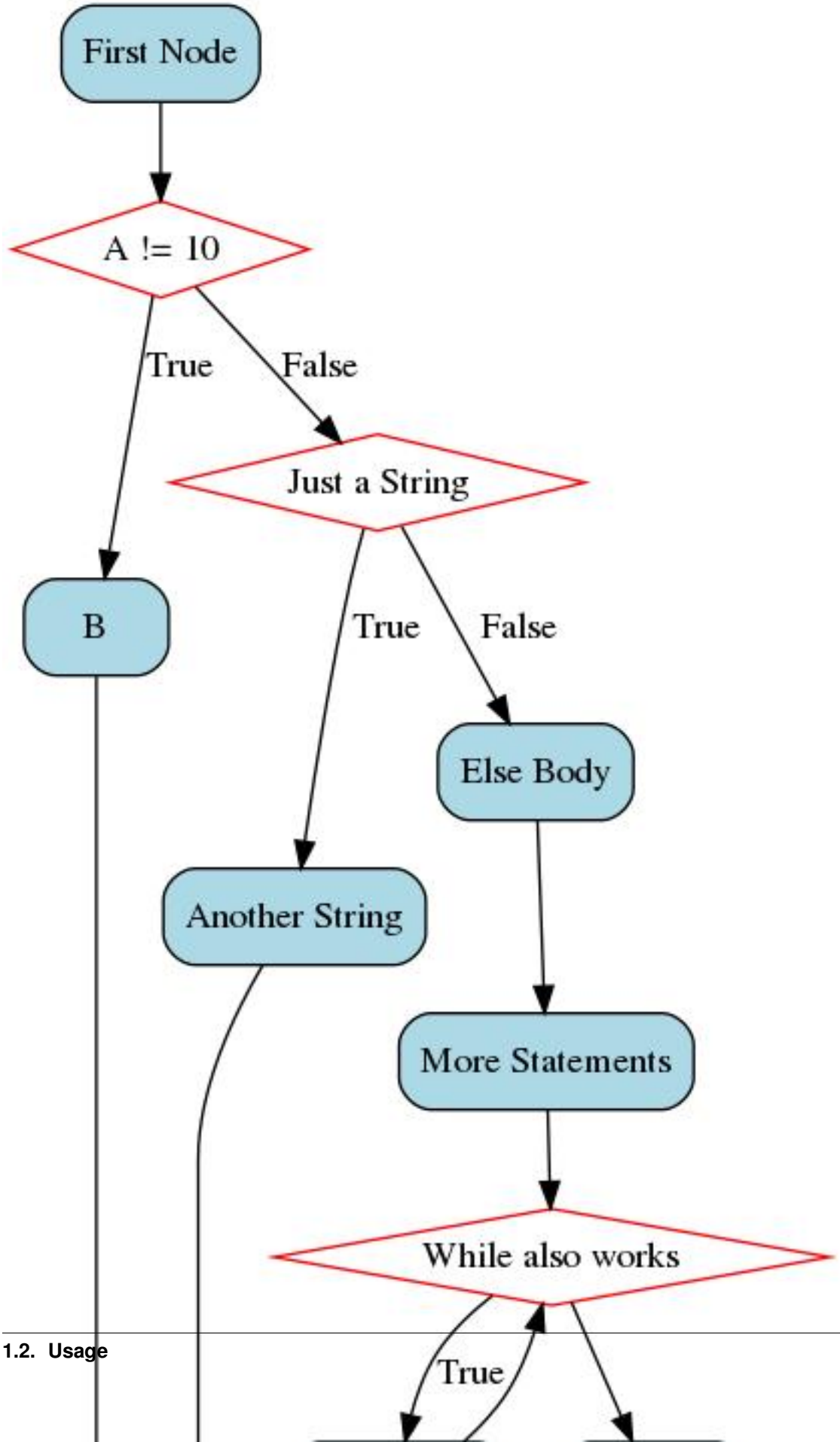


All the conditions and states can be arbitrary strings too

```
from txtoflow import txtoflow

txtoflow.generate(
    '''
    First Node;
    if (A != 10) {
        B;
    } else if (Just a String) {
        Another String;
    } else {
        Else Body;
        More Statements;
        while (While also works) {
            While Body;
        }
        Link back;
    }
    Final Node;
    '''
)
```

Will still generate image like below


First Node
A != 10
True
False
Just a String
B
True
False
Else Body
Another String
More Statements
While also works
True

1.3 Examples

More examples can be found here

1.4 Cmdline usage

```
$ > txtoflow -h

# Generates flowchart of pseudo-code from sample.c in file flow.jpg
$ > txtoflow -s sample.c -o flow.jpg
```

CHAPTER 2

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