1 Installation

gnuradio–install.sh

```
# Install pybombs via python-pip
sudo pip install PyBOMBS

# Add recipe lists from git repositories
pybombs recipes add gr-recipes git+https://
    ↪ github.com/gnuradio/gr-recipes.git
pybombs recipes add gr-etcetera git+https://
    ↪ github.com/gnuradio/gr-etcetera.git

# Set installation folder to '~/Desktop/
    ↪ pybombs'
pybombs prefix init ~/Desktop/pybombs -a
    ↪ myprefix

# Enable documentation
pybombs config builddocs=ON

# Run gnuradio installation with verbose
    ↪ output
pybombs -vv install gnuradio

# Publish install variables as environment
    ↪ variables
source ~/Desktop/pybombs/setup_env.sh

# Apply also after re-booting
echo 'source ~/Desktop/pybombs/setup_env.sh'
    ↪  >> ~/.profile
echo 'source ~/Desktop/pybombs/setup_env.sh'
    ↪  >> ~/.bashrc

# Run GNU Radio Companion
gnuradio-companion
```

2 Getting Started

getting–started.py

```
from gnuradio import gr, blocks, filter,
    ↪ analog

class my_topblock(gr.top_block):
    def __init__(self):
        gr.top_block.__init__(self)
        amp = 1
        taps = filter.firdes.low_pass(1, 1,
    ↪ 0.1, 0.01)
        self.src = analog.noise_source_c(
    ↪ analog.GR_GAUSSIAN, amp)
        self.flt = filter.fir_filter_ccf(1,
    ↪ taps)
        self.snk = blocks.null_sink(gr.
    ↪ sizeof_gr_complex)
        self.connect(self.src, self.flt,
    ↪ self.snk)

if __name__ == "__main__":
    tb = my_topblock()
    tb.start()
    tb.wait()
```