# AUSTIN
## CHEATSHEET

for version 3.7

## INSTALL

```
sudo snap install austin --classic
```
🐧

```
brew install austin
```
🍎

```
choco install austin
```
⊞

```
scoop install austin
```
⊞

```
conda install -c conda-forge austin
```
🐧🍎

## LAUNCH

**Start a script**
```
austin python myscript.py
```

**Start an executable script**
```
austin ./myscript.py
```

**Start a module**
```
austin python -m mymodule
```

**Attach to a running process***
```
austin -p 123
```

**Attach to child processes**
```
austin -C python my_multiproc_script.py
```
```
austin -Cp 123
```

**Set sampling interval**
```
austin -p 123 -i 10ms
```

**Exposure**
```
austin -x 3s ./myscript.py
```

**Where?***
```
austin -w 123
```

**Set start-up timeout (on slow machines)**
```
austin -p 123 -t 1s
```

**Set heap size (for more accurate results)**
```
austin -h 512 python -m mymodule
```

## MODE

**Wall clock time**
```
austin python myscript.py
```

**CPU time**
```
austin -s python myscript.py
```

**Memory**
```
austin -m python myscript.py
```

**Wall clock time and garbage collector**
```
austin -g python myscript.py
```

**CPU time and garbage collector**
```
austin -sg python myscript.py
```

**All metrics**
```
austin -f python -m mymodule
```

**All metrics and garbage collector**
```
austin -fg -p 123
```

## OUTPUT

**Emit to STDOUT** (Python STDOUT suppressed)
```
austin python -m mymodule
```

**Redirect to file** (Python STDOUT suppressed)
```
austin -p 123 > /path/to/samples.austin
```

**Pipe to other tools** (Python STDOUT suppressed)
```
austin -P ./myscript.py | ./flamegraph.pl > fg.svg
```

**Emit to file** (Python STDOUT preserved)
```
austin -o /path/to/samples.austin -p 123
```

**Emit to file in binary (MOJO) format** (STDOUT preserved)
```
austin -bo /path/to/samples.austin -p 123
```

## TOOLS

**Austin TUI**
```
pipx install austin-tui
```
🐧🍎⊞

**Austin VS Code**
```
code --install-extension p403n1x87.austin-vscode
```
🐧🍎⊞

* requires superuser capabilities on Linux