Raspberry Pi Pico – MicroPython REPL Cheat Sheet

What is REPL?

REPL stands for Read-Eval-Print-Loop. It is an interactive prompt where you can type Python commands and get immediate results.

Accessing REPL on macOS (Zsh)

```
mpremote: mpremote connect /dev/tty.usbmodemXXXX screen: screen /dev/tty.usbmodemXXXX
115200 Exit screen: Ctrl-A, then Ctrl-\, then y
```

Basic Commands

```
>>> 2 + 3 # Math >>> print('Hi') # Print text >>> help() # Help menu >>> help('modules')
# List modules
```

Filesystem Commands

```
import os os.listdir() # List files os.remove('file.py') # Delete file
os.rename('old.py', 'new.py') # Rename file
```

File Info & Storage

```
import os for f in os.listdir(): print(f, os.stat(f)[6], 'bytes') stats =
os.statvfs('/') total = stats[0] * stats[2] free = stats[0] * stats[3] print('Total:',
total, 'Free:', free)
```

Running Code from REPL

```
exec(open('file.py').read()) # Run a script import mymodule # Import and run module code
from mymodule import myfunc; myfunc() # Run function
```

Stopping Code

```
Ctrl-C # Stop running program in REPL Ctrl-D # Soft reboot the Pico
```

Tips

```
- boot.py runs on startup (setup code) - main.py runs after boot.py (main program) - Use
safe mode to bypass main.py if it locks up (hold BOOTSEL on reset for certain firmware
modes)
```