

ADC Evaluation Tool User Guide

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1 Getting started

This tool is intended to enable fast ADC prototyping at the behavior level. It is written in Python. To run the script, you will need a working python installation, and corresponding dependencies. Here is a quick example using “uv” for virtual environment management.

1.1 Running this tool with uv

1.1.1 Installing uv

You can find the official documentation for uv at <https://docs.astral.sh/uv/>. Follow the installation guide there.

1.1.2 Cloning the repository

To run the code, you need to first clone this repository by running the following command in your terminal:

```
git clone git@github.com:LifeCircuitsLab/ADC-Evaluation-Python.git
```

1.1.3 Setting up the virtual environment

Navigate to the cloned repository folder in the terminal. Under it, run the following command:

```
uv venv --python="3.12.0"  
uv sync
```

This will create a virtual environment with Python 3.12.0 and install all the dependencies specified in the `pyproject.toml` file.

1.1.4 Giving it a shot

With everything set, run:

```
uv run ./main.py
```

You should be all set.