# Ultraleap and Python Bindings setup

**Step 1: Download Gemini SDK**

* Navigate to <https://leap2.ultraleap.com/downloads/>
* Select Ultra Leap Controller 2
* Select OS for your device -> download Gemini
* Install once it’s finished downloading.
* **NOTE** Don’t change the default location - this may cause issues later when installing Python Bindings!

**Step 2: Pull Python Bindings Repo**

* Link to repo: <https://github.com/ultraleap/leapc-python-bindings>

**Step 3: Setup Virtual Environment**

* open your folder in VSCode
* In the terminal:
* python -m venv venv
* ./venv/Scripts/activate (you may have an error here, if so see 3a)
* \*\*you are now in the venv\*\*
* pip install leap

**Step 3a: If you encountered a problem with Execution Policy:**

(If you had no issues with step 3, ignore this step)

* Open powershell as administrator
* Get-ExecutionPolicy (this just tells us the execution policy)
* Set-ExecutionPolicy RemoteSigned
* In VSCode: ./venv/Scripts/activate
* Back in Powershell: Set-ExecutionPolicy Restricted <- very important!

**Step 4: Build Python Bindings**

* In VSCode terminal:
* pip install -r .\leapc-python-bindings\requirements.txt
* python -m build .\leapc-python-bindings\leapc-cffi
* pip install .\leapc-python-bindings\leapc-cffi/dist/leapc\_cffi-0.0.1.tar.gz
* pip install -e .\leapc-python-bindings\leapc-python-api

**Step 5: Run an example!**

* Take an example out of the python bindings folder, place it in your root.
  + Note: if you don’t have access to a Leap Motion Controller, you can run “print\_current\_time.py” to make sure the bindings and SDK are working properly.
* Plug in Leap Motion Controller 2
* Run an example!