



SIT32004

ICT Application Development

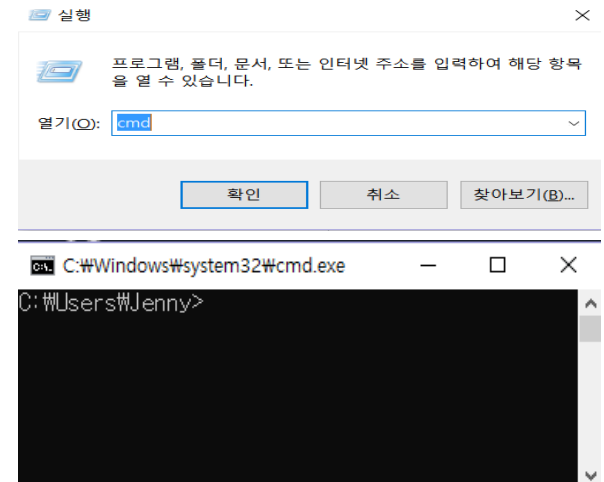
Kivy Installation
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Kivy Setup

- Python Installation
 - Requirements
 - » For windows : 3.7.x
 - » For OSX: 3.6.x
- Windows
 - **Command line**
 - 1) press Win+R on your keyboard
 - 2) type cmd in the window that opens
 - 3) press enter.
 - You should open the command line as Administrator privilege



Kivy Installation (1/2)

- Check Python version

- 1) open the **Command line**

- 2) make sure python is available by typing **python --version**

```
C:\Users\Jenny\AppData\Local\Programs\Python\Python36>python --version
Python 3.6.8
```

- Ensure you have the latest pip and wheel:

- 3) Type **python -m pip install --upgrade pip wheel setuptools**

```
C:\Users\Jenny\AppData\Local\Programs\Python\Python36>python -m pip install --upgrade pip wheel setuptools
Requirement already up-to-date: pip in c:\users\jenny\AppData\Local\Programs\Python\Python36\lib\site-packages (19.0.3)
Collecting wheel
  Downloading https://files.pythonhosted.org/packages/96/ba/a4702cbb6a3a485239fbe9525443446203f00771af9ac000fa3ef2788201/wheel-0.33.1-py2.py3-none-any.whl
Collecting setuptools
  Using cached https://files.pythonhosted.org/packages/d1/6a/4b2fcefcd2ea0868810e92d519dacac1ddc64a2e53ba9e3422c3b62b378a6/setuptools-40.8.0-py2.py3-none-any.whl
Installing collected packages: wheel, setuptools
  Found existing installation: setuptools 40.6.2
  Uninstalling setuptools-40.6.2:
    Successfully uninstalled setuptools-40.6.2
  Successfully installed setuptools-40.8.0 wheel-0.33.1
```

Kivy Installation (2/3)

- Install the dependencies:
 - Type **python -m pip install docutils pygments pypiwin32 kivy.deps.sdl2 kivy.deps.glew**

```
c:\Users\정지민\AppData\Local\Programs\Python\Python37-32>python -m pip install docutils pygment
s pypiwin32 kivy.deps.sdl2 kivy.deps.glew
Collecting docutils
  Downloading https://files.pythonhosted.org/packages/36/fa/08e9e6e0e3cbd1d362c3bbe8d01d0aedb21
55c4ac112b19ef3cae8eed8d/docutils-0.14-py3-none-any.whl (543kB)
    100% |#####| 552kB 728kB/s
Collecting pygments
  Downloading https://files.pythonhosted.org/packages/13/e5/6d710c9cf96c31ac82657bcfb441df328b22
df8564d58d0c4cd62612674c/Pygments-2.3.1-py2.py3-none-any.whl (849kB)
    100% |#####| 849kB 1.1MB/s
Collecting pypiwin32
  Downloading https://files.pythonhosted.org/packages/d0/1b/2f292bbd742e369a100c91faa0483172cd91
a1a422a6692055ac920946c5/pypiwin32-223-py3-none-any.whl
Collecting kivy.deps.sdl2
  Downloading https://files.pythonhosted.org/packages/af/19/ee0c93f707148cb9d1fecacc6d86772caf55
98ce3f3b82dbc29d8a94e9dd/kivy.deps.sdl2-0.1.18-cp37-m-win32.whl (2.2MB)
    100% |#####| 2.3MB 6.6MB/s
Collecting kivy.deps.glew
  Downloading https://files.pythonhosted.org/packages/a1/de/3b895233efffc31affdb42e2af6011bc4a0f
51d63d5baeb9b1179c29549e/kivy.deps.glew-0.1.10-cp37-m-win32.whl (117kB)
    100% |#####| 122kB 6.6MB/s
Collecting pywin32>=223 (from pypiwin32)
  Downloading https://files.pythonhosted.org/packages/8a/37/917c4020e93e0e854d4cbff1cbdf14ec45a6
d1cedf52f8cafdea5b22451a/pywin32-224-cp37-m-win32.whl (8.3MB)
    100% |#####| 8.3MB 2.2MB/s
Installing collected packages: docutils, pygments, pywin32, pypiwin32, kivy.deps.sdl2, kivy.deps
.glew
  The script pygmentize.exe is installed in 'c:\Users\정지민\AppData\Local\Programs\Python\Pytho
n37-32\Scripts' which is not on PATH.
  Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-wa
rn-script-location.
Successfully installed docutils-0.14 kivy.deps.glew-0.1.10 kivy.deps.sdl2-0.1.18 pygments-2.3.1
pypiwin32-223 pywin32-224
c:\Users\정지민\AppData\Local\Programs\Python\Python37-32>
```

<Note>

If you encounter a MemoryError while installing, add after pip install an option **--no-cache-dir**.

Kivy Installation (3/3)

- Type **python -m pip install kivy**

```
C:\Users\Jenny\AppData\Local\Programs\Python\Python36>python -m pip install kivy
Collecting kivy
  Downloading https://files.pythonhosted.org/packages/12/c1/058b2046fe0c83f489600a134720779c9e53123629f46d0239d345743042/Kivy-1.10.1-cp36-cp36m-win_amd64.whl (4.0MB)
    100% |#####| 4.0MB 511kB/s
Collecting Kivy-Garden>=0.1.4 (from kivy)
  Downloading https://files.pythonhosted.org/packages/7d/68/decaee596ff8168a39432eb3949fc7c0be952ebb9467806823bffc165d48/kivy-garden-0.1.4.tar.gz
Requirement already satisfied: docutils in c:\users\jenny\appdata\local\programs\python\python36\lib\site-packages (from kivy) (0.14)
Requirement already satisfied: pygments in c:\users\jenny\appdata\local\programs\python\python36\lib\site-packages (from kivy) (2.3.1)
Requirement already satisfied: requests in c:\users\jenny\appdata\local\programs\python\python36\lib\site-packages (from Kivy-Garden>=0.1.4->kivy) (2.21.0)
Requirement already satisfied: chardet<3.1.0,>=3.0.2 in c:\users\jenny\appdata\local\programs\python\python36\lib\site-packages (from requests->Kivy-Garden>=0.1.4->kivy) (3.0.4)
Requirement already satisfied: idna<2.9,>=2.5 in c:\users\jenny\appdata\local\programs\python\python36\lib\site-packages (from requests->Kivy-Garden>=0.1.4->kivy) (2.8)
Requirement already satisfied: urllib3<1.25,>=1.21.1 in c:\users\jenny\appdata\local\programs\python\python36\lib\site-packages (from requests->Kivy-Garden>=0.1.4->kivy) (1.24.1)
Requirement already satisfied: certifi>=2017.4.17 in c:\users\jenny\appdata\local\programs\python\python36\lib\site-packages (from requests->Kivy-Garden>=0.1.4->kivy) (2018.11.29)
Building wheels for collected packages: Kivy-Garden
  Building wheel for Kivy-Garden (setup.py) ... done
  Stored in directory: C:\Users\Jenny\AppData\Local\Pip\Cache\wheels\55\09\36\4bec048252175b6aa7ba75441cbeed8f31a0bea37abedcfed0
Successfully built Kivy-Garden
Installing collected packages: Kivy-Garden, kivy
Successfully installed Kivy-Garden-0.1.4 kivy-1.10.1
```

- Note
 - If you encounter any permission denied errors, try opening the Command prompt as administrator and trying again.

Kivy Installation for Mac (1/2)

- To install Kivy, you must install [Homebrew](#) first

\$ /usr/bin/ruby -e "\$(curl -fsSL

https://raw.githubusercontent.com/Homebrew/install/master/install)"

```
Jennyui-iMac:~ jenny$ /usr/bin/ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"
```

- Install the requirements using homebrew:

\$ brew install pkg-config sdl2 sdl2_image sdl2_ttf sdl2_mixer gstreamer

- Install Cython and Kivy using pip:

\$ pip install Cython==0.26.1

\$ pip install kivy

Kivy Installation for Mac (2/2)

- To test if it worked:
 - 1) Open **Terminal.app**
 - 2) Type **python** (if you have both python2 and python3 downloaded, type python3)

```
[Jennyui-iMac:~ jenny$ python3
Python 3.6.8 (v3.6.8:3c6b436a57, Dec 24 2018, 02:04:31)
[GCC 4.2.1 Compatible Apple LLVM 6.0 (clang-600.0.57)] on darwin
Type "help", "copyright", "credits" or "license" for more information.
[>>> import kivy
[INFO      ] [Logger      ] Record log in /Users/jenny/.kivy/logs/kivy_19-03-08_2.t
xt
[INFO      ] [Kivy        ] v1.10.1
[INFO      ] [Python       ] v3.6.8 (v3.6.8:3c6b436a57, Dec 24 2018, 02:04:31)
[GCC 4.2.1 Compatible Apple LLVM 6.0 (clang-600.0.57)]
>>> █
```

- 3) If you have similar result as above picture, then you're done.