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Activities Terminal Mon 16:11
gabriel@gabriel-lenovo-920-13IKB: ~/lot/lesson3

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gabriel@gabriel-lenovo-920-13IKB:~$ cd lot/
gabriel@gabriel-lenovo-920-13IKB:~/lot$ ls
lesson1 lesson2 lesson3 lesson4 lesson5 lesson6 lesson7 lesson8 projects special_problems
lesson10 lesson3 lesson5 lesson7 lesson9 README.md standards
gabriel@gabriel-lenovo-920-13IKB:~/lot$ cd *3
gabriel@gabriel-lenovo-920-13IKB:~/lot/lesson3$ ls
i-wire_bb.png cpu.py ldrtmp.py socket_client.py
2example.py date_example.py led.py socket_server.py
3example.py datetime_example.py manual.py soil.py
accelerometer.py documentstats.py micropython sound.py
ack_c.py document.txt moon.py student.py
ack_r1.py file.txt morse_code.py sun.py
ack_r2.py hello_c.py mq.py sun_xidian.py
address.py hello.py no2co.py system_info.py
auto.py hello_r1.py noz.py temperature.py
battery.py hello_r2.py pxexample.py test_email.py
blink.py julian.py pyp.py time_example.py
coordinates.py ldr_adc.py README.md touch.py
co.py ldr_bb.png servo.py
covid ldr_lux.py servomotor.py
gabriel@gabriel-lenovo-920-13IKB:~/lot/lesson3$ python julian.py
Calendar Date: 2022-02-14
Julian Date: 2459624.5
Modified Julian Date: 59624.0
gabriel@gabriel-lenovo-920-13IKB:~/lot/lesson3$ python date_example.py
Date: 2022-02-14
Date: 02-14-22
Day of Week: Monday
Month: February
Year: 2022
100 days after the first day of classes
-60 days before the last day of classes
gabriel@gabriel-lenovo-920-13IKB:~/lot/lesson3$ python datetime_example.py
2022-02-14 16:04:04.288528
2022-02-14 16:04:04.288528
2022-02-14 21:04:04.288528
1644872444.29
Mon Feb 14 16:04:04 2022
2022-02-14 16:04:04.288563
2022-02-14 21:04:04.288572
gabriel@gabriel-lenovo-920-13IKB:~/lot/lesson3$ python time_example.py
Mon Feb 14 16:04:14 2022
Mon Feb 14 16:04:24 2022
^C
gabriel@gabriel-lenovo-920-13IKB:~/lot/lesson3$ python sun.py 'New York'
Traceback (most recent call last):
  File "sun.py", line 3, in <module>
    from astral.geocoder import database, lookup
ImportError: No module named geocoder
gabriel@gabriel-lenovo-920-13IKB:~/lot/lesson3$ python3 sun.py 'New York'
Traceback (most recent call last):
  File "sun.py", line 3, in <module>
    from astral.geocoder import database, lookup
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Activities Terminal Mon 16:12
gabriel@gabriel-lenovo-920-13IKB: ~/lot/lesson3

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    from astral.geocoder import database, lookup
ImportError: No module named geocoder
gabriel@gabriel-lenovo-920-13IKB:~/lot/lesson3$ python3 sun.py 'New York'
Traceback (most recent call last):
  File "sun.py", line 3, in <module>
    from astral.geocoder import database, lookup
ModuleNotFoundError: No module named 'astral'
gabriel@gabriel-lenovo-920-13IKB:~/lot/lesson3$ python3 sun.py 'New York'
Traceback (most recent call last):
  File "sun.py", line 3, in <module>
    from astral.geocoder import database, lookup
ModuleNotFoundError: No module named 'astral'
gabriel@gabriel-lenovo-920-13IKB:~/lot/lesson3$ python3 sun.py 'New York'
Traceback (most recent call last):
  File "sun.py", line 3, in <module>
    from astral.geocoder import database, lookup
ModuleNotFoundError: No module named 'astral'
gabriel@gabriel-lenovo-920-13IKB:~/lot/lesson3$ pip3 install astral
Command 'pip3' not found, but can be installed with:
sudo apt install python3-pip
gabriel@gabriel-lenovo-920-13IKB:~/lot/lesson3$ ^C
gabriel@gabriel-lenovo-920-13IKB:~/lot/lesson3$ sudo apt install python3-pip
[sudo] password for gabriel:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  dh-python libpython3-dev libpython3.6-dev python3-dev python3-setupools
  python3-wheel python3.6-dev
Suggested packages:
  python-setupools-doc
The following NEW packages will be installed:
  dh-python libpython3-dev libpython3.6-dev python3-dev python3-pip
  python3-setupools python3-wheel python3.6-dev
0 upgraded, 8 newly installed, 0 to remove and 194 not upgraded.
Need to get 45.9 MB of archives.
After this operation, 79.2 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us.archive.ubuntu.com/ubuntu bionic/main amd64 dh-python all 3.20180325ubuntu2 [89.2 kB]
Get:2 http://us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libpython3.6-dev amd64 3.6.9-1-18.04ubuntu1.6 [44.9 MB]
Get:3 http://us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libpython3-dev amd64 3.6.7-1-18.04 [7,328 B]
Get:4 http://us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 python3.6-dev amd64 3.6.9-1-18.04ubuntu1.6 [508 kB]
Get:5 http://us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 python3-dev amd64 3.6.7-1-18.04 [1,208 B]
Get:6 http://us.archive.ubuntu.com/ubuntu bionic-updates/universe amd64 python3-pip all 9.0.1-2.3-ubuntu1.18.04.5 [114 kB]
Get:7 http://us.archive.ubuntu.com/ubuntu bionic/main amd64 python3-setupools all 39.0.1-2 [248 kB]
Get:8 http://us.archive.ubuntu.com/ubuntu bionic/main amd64 python3-wheel all 0.30.0-0.2 [36.5 kB]
Fetched 45.9 MB in 5s (9,116 kB/s)
Selecting previously unselected package dh-python.
(Reading database ... 213202 files and directories currently installed.)
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Activities Terminal Mon 16:13
gabriel@gabriel-Lenovo-920-13IKB: ~/lot/lesson3

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After this operation, 79.2 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://us.archive.ubuntu.com/ubuntu bionic/main amd64 dh-python all 3.20180325ubuntu2 [89.2 kB]
Get:2 http://us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libpython3.6-dev amd64 3.6.9-1-18.04ubuntu1.6 [44.9 MB]
Get:3 http://us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libpython3-dev amd64 3.6.7-1-18.04 [7,328 B]
Get:4 http://us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 python3.6-dev amd64 3.6.9-1-18.04ubuntu1.6 [508 kB]
Get:5 http://us.archive.ubuntu.com/ubuntu bionic-updates/main amd64 python3-dev amd64 3.6.7-1-18.04 [1,288 B]
Get:6 http://us.archive.ubuntu.com/ubuntu bionic-updates/universe amd64 python3-pip all 9.0.1-2.3-ubuntu1.18.04.5 [114 kB]
Get:7 http://us.archive.ubuntu.com/ubuntu bionic/main amd64 python3-setuptools all 39.0.1-2 [248 kB]
Get:8 http://us.archive.ubuntu.com/ubuntu bionic/universe amd64 python3-wheel all 0.30.0-0.2 [30.5 kB]
Fetched 45.9 MB in 5s (9,116 kB/s)
Selecting previously unselected package dh-python.
(Reading database ... 213202 files and directories currently installed.)
Preparing to unpack .../0-dh-python_3.20180325ubuntu2_all.deb ...
Unpacking dh-python (3.20180325ubuntu2) ...
Selecting previously unselected package libpython3.6-dev:amd64.
Preparing to unpack .../1-libpython3.6-dev_3.6.9-1-18.04ubuntu1.6_and64.deb ...
Unpacking libpython3.6-dev:amd64 (3.6.9-1-18.04ubuntu1.6) ...
Selecting previously unselected package libpython3-dev:amd64.
Preparing to unpack .../2-libpython3-dev_3.6.7-1-18.04_and64.deb ...
Unpacking libpython3-dev:amd64 (3.6.7-1-18.04) ...
Selecting previously unselected package python3.6-dev.
Preparing to unpack .../3-python3.6-dev_3.6.9-1-18.04ubuntu1.6_and64.deb ...
Unpacking python3.6-dev (3.6.9-1-18.04ubuntu1.6) ...
Selecting previously unselected package python3-dev.
Preparing to unpack .../4-python3-dev_3.6.7-1-18.04_and64.deb ...
Unpacking python3-dev (3.6.7-1-18.04) ...
Selecting previously unselected package python3-pip.
Preparing to unpack .../5-python3-pip_9.0.1-2.3-ubuntu1.18.04.5_all.deb ...
Unpacking python3-pip (9.0.1-2.3-ubuntu1.18.04.5) ...
Selecting previously unselected package python3-setuptools.
Preparing to unpack .../6-python3-setuptools_39.0.1-2_all.deb ...
Unpacking python3-setuptools (39.0.1-2) ...
Selecting previously unselected package python3-wheel.
Preparing to unpack .../7-python3-wheel_0.30.0-0.2_all.deb ...
Unpacking python3-wheel (0.30.0-0.2) ...
Setting up python3-wheel (0.30.0-0.2) ...
Setting up libpython3.6-dev:amd64 (3.6.9-1-18.04ubuntu1.6) ...
Setting up python3-pip (9.0.1-2.3-ubuntu1.18.04.5) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Setting up python3-setuptools (39.0.1-2) ...
Setting up python3.6-dev (3.6.9-1-18.04ubuntu1.6) ...
Setting up dh-python (3.20180325ubuntu2) ...
Setting up libpython3-dev:amd64 (3.6.7-1-18.04) ...
Setting up python3-dev (3.6.7-1-18.04) ...
gabriel@gabriel-Lenovo-920-13IKB:~/lot/lesson3$ pip3 install astral
Collecting astral
  Downloading https://files.pythonhosted.org/packages/91/60/7cc241b9c3710ebaddcb323e77dd422c693183aec92449a1cf1fb59e1ba/astral-2.2-py2.py3-none-any.whl
Collecting dataclasses; python_version == "3.6" (from astral)
  Downloading https://files.pythonhosted.org/packages/fe/ca/75fac5856ab5cfa51bbbcfa258182e50441074fdc3f803f6e76451fab43/dataclasses-0.8-py3-none-any.whl
Collecting pytz (from astral)
  Using cached https://files.pythonhosted.org/packages/d3/e3/d9f046b5d1c94a3aaab15f1f867aa14f8ee9d196fae6865f1d6a0ee1a0b/pytz-2021.3-py2.py3-none-any.whl
Installing collected packages: dataclasses, pytz, astral
Successfully installed astral-2.2 dataclasses-0.8 pytz-2021.3
gabriel@gabriel-Lenovo-920-13IKB:~/lot/lesson3$ python3 sun.py 'New York'
Information for New York/USA
Timezone: US/Eastern
Latitude: 40.72; Longitude: -74.00
Dawn: 2022-02-14 06:22:46.048370-05:00
Sunrise: 2022-02-14 06:51:24.379977-05:00
Moon: 2022-02-14 10:18:11-05:00
Sunset: 2022-02-14 17:29:27.730971-05:00
Dusk: 2022-02-14 17:58:07.945370-05:00
gabriel@gabriel-Lenovo-920-13IKB:~/lot/lesson3$ python3 moon.py
2022-02-14 Moon Phase: 12
2022-02-15 Moon Phase: 12
2022-02-16 Moon Phase: 13
2022-02-17 Moon Phase: 14
2022-02-18 Moon Phase: 15
2022-02-19 Moon Phase: 16
2022-02-20 Moon Phase: 17
2022-02-21 Moon Phase: 18
2022-02-22 Moon Phase: 19
2022-02-23 Moon Phase: 20
2022-02-24 Moon Phase: 21
2022-02-25 Moon Phase: 22
2022-02-26 Moon Phase: 23
2022-02-27 Moon Phase: 24
2022-02-28 Moon Phase: 25
2022-03-01 Moon Phase: 26
2022-03-02 Moon Phase: 27
2022-03-03 Moon Phase: 0
2022-03-04 Moon Phase: 1
2022-03-05 Moon Phase: 2
2022-03-06 Moon Phase: 3
2022-03-07 Moon Phase: 4
2022-03-08 Moon Phase: 5
2022-03-09 Moon Phase: 6
2022-03-10 Moon Phase: 7
2022-03-11 Moon Phase: 7
2022-03-12 Moon Phase: 8
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Setting up python3.6-dev (3.6.9-1-18.04ubuntu1.6) ...
Setting up dh-python (3.20180325ubuntu2) ...
Setting up libpython3-dev:amd64 (3.6.7-1-18.04) ...
Setting up python3-dev (3.6.7-1-18.04) ...
gabriel@gabriel-Lenovo-920-13IKB:~/lot/lesson3$ pip3 install astral
Collecting astral
  Downloading https://files.pythonhosted.org/packages/91/60/7cc241b9c3710ebaddcb323e77dd422c693183aec92449a1cf1fb59e1ba/astral-2.2-py2.py3-none-any.whl
Collecting dataclasses; python_version == "3.6" (from astral)
  Downloading https://files.pythonhosted.org/packages/fe/ca/75fac5856ab5cfa51bbbcfa258182e50441074fdc3f803f6e76451fab43/dataclasses-0.8-py3-none-any.whl
Collecting pytz (from astral)
  Using cached https://files.pythonhosted.org/packages/d3/e3/d9f046b5d1c94a3aaab15f1f867aa14f8ee9d196fae6865f1d6a0ee1a0b/pytz-2021.3-py2.py3-none-any.whl
Installing collected packages: dataclasses, pytz, astral
Successfully installed astral-2.2 dataclasses-0.8 pytz-2021.3
gabriel@gabriel-Lenovo-920-13IKB:~/lot/lesson3$ python3 sun.py 'New York'
Information for New York/USA
Timezone: US/Eastern
Latitude: 40.72; Longitude: -74.00
Dawn: 2022-02-14 06:22:46.048370-05:00
Sunrise: 2022-02-14 06:51:24.379977-05:00
Moon: 2022-02-14 10:18:11-05:00
Sunset: 2022-02-14 17:29:27.730971-05:00
Dusk: 2022-02-14 17:58:07.945370-05:00
gabriel@gabriel-Lenovo-920-13IKB:~/lot/lesson3$ python3 moon.py
2022-02-14 Moon Phase: 12
2022-02-15 Moon Phase: 12
2022-02-16 Moon Phase: 13
2022-02-17 Moon Phase: 14
2022-02-18 Moon Phase: 15
2022-02-19 Moon Phase: 16
2022-02-20 Moon Phase: 17
2022-02-21 Moon Phase: 18
2022-02-22 Moon Phase: 19
2022-02-23 Moon Phase: 20
2022-02-24 Moon Phase: 21
2022-02-25 Moon Phase: 22
2022-02-26 Moon Phase: 23
2022-02-27 Moon Phase: 24
2022-02-28 Moon Phase: 25
2022-03-01 Moon Phase: 26
2022-03-02 Moon Phase: 27
2022-03-03 Moon Phase: 0
2022-03-04 Moon Phase: 1
2022-03-05 Moon Phase: 2
2022-03-06 Moon Phase: 3
2022-03-07 Moon Phase: 4
2022-03-08 Moon Phase: 5
2022-03-09 Moon Phase: 6
2022-03-10 Moon Phase: 7
2022-03-11 Moon Phase: 7
2022-03-12 Moon Phase: 8
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2022-03-06 Moon Phase: 3
2022-03-07 Moon Phase: 4
2022-03-08 Moon Phase: 5
2022-03-09 Moon Phase: 6
2022-03-10 Moon Phase: 7
2022-03-11 Moon Phase: 7
2022-03-12 Moon Phase: 8
2022-03-13 Moon Phase: 9
2022-03-14 Moon Phase: 10
2022-03-15 Moon Phase: 11
gabriell@gabriell-Lenovo-920-13IKB:~/lot/lesson3$ python3 coordinates.py 'SC Williams Library'
Traceback (most recent call last):
  File "coordinates.py", line 2, in <module>
    from geopy.geocoders import Nominatim
ModuleNotFoundError: No module named 'geopy'
gabriell@gabriell-Lenovo-920-13IKB:~/lot/lesson3$ pip3 install geopy
Collecting geopy
  Downloading https://files.pythonhosted.org/packages/e1/e1/45f25e3d3acf2678288f847de7c958a2807a039210fb1016cc3fb9555c4/geopy-2.2.0-py3-none-any.whl (118kB)
    100% |#####| 122kB 4.5MB/s
Collecting geographiclib<2.0,>=1.49 (from geopy)
  Downloading https://files.pythonhosted.org/packages/df/60/d1d4c4944f9726228faa80f8e2206c8ddf9757791b2de2facb8818c5d74/geographiclib-1.52-py3-none-any.whl
Installing collected packages: geographiclib, geopy
Successfully installed geographiclib-1.52 geopy-2.2.0
gabriell@gabriell-Lenovo-920-13IKB:~/lot/lesson3$ pip3 install geopy
Collecting geopy
  Using cached https://files.pythonhosted.org/packages/e1/e1/45f25e3d3acf2678288f847de7c958a2807a039210fb1016cc3fb9555c4/geopy-2.2.0-py3-none-any.whl
Collecting geographiclib<2.0,>=1.49 (from geopy)
  Using cached https://files.pythonhosted.org/packages/df/60/d1d4c4944f9726228faa80f8e2206c8ddf9757791b2de2facb8818c5d74/geographiclib-1.52-py3-none-any.whl
Installing collected packages: geographiclib, geopy
Successfully installed geographiclib-1.52 geopy-2.2.0
gabriell@gabriell-Lenovo-920-13IKB:~/lot/lesson3$ python3 coordinates.py 'SC Williams Library'
SC Williams Library, Field House Road, Hoboken, Hudson County, New Jersey, 07030, United States
(40.74480675, -74.02532862031404)
gabriell@gabriell-Lenovo-920-13IKB:~/lot/lesson3$ python3 address.py '40.74480675, -74.02532862031404'
SC Williams Library, Field House Road, Hoboken, Hudson County, New Jersey, 07030, United States
(40.74480675, -74.02532862031404)
gabriell@gabriell-Lenovo-920-13IKB:~/lot/lesson3$ python3 cpu.py
Traceback (most recent call last):
  File "cpu.py", line 2, in <module>
    import psutil
ModuleNotFoundError: No module named 'psutil'
gabriell@gabriell-Lenovo-920-13IKB:~/lot/lesson3$ pip3 install psutil
Collecting psutil
  Downloading https://files.pythonhosted.org/packages/47/b6/ea8a7728f096a597f0032564e8013b705aa992a0990becd773dcd4d7b4a7/psutil-5.9.0.tar.gz (478kB)
    100% |#####| 481kB 1.7MB/s
Building wheels for collected packages: psutil
  Running setup.py bdist_wheel for psutil ... done
  Stored in directory: /home/gabriell/.cache/pip/wheels/b8/c4/6a/265e0f0711d5715c6554bf14f58e74f24be139a5036a3f626
Successfully built psutil
Installing collected packages: psutil
Successfully installed psutil-5.9.0
gabriell@gabriell-Lenovo-920-13IKB:~/lot/lesson3$ python3 cpu.py
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  Downloading https://files.pythonhosted.org/packages/df/60/d1d4c4944f9726228faa80f8e2206c8ddf9757791b2de2facb8818c5d74/geographiclib-1.52-py3-none-any.whl
Installing collected packages: geographiclib, geopy
Successfully installed geographiclib-1.52 geopy-2.2.0
gabriell@gabriell-Lenovo-920-13IKB:~/lot/lesson3$ pip3 install geopy
Collecting geopy
  Using cached https://files.pythonhosted.org/packages/e1/e1/45f25e3d3acf2678288f847de7c958a2807a039210fb1016cc3fb9555c4/geopy-2.2.0-py3-none-any.whl
Collecting geographiclib<2.0,>=1.49 (from geopy)
  Using cached https://files.pythonhosted.org/packages/df/60/d1d4c4944f9726228faa80f8e2206c8ddf9757791b2de2facb8818c5d74/geographiclib-1.52-py3-none-any.whl
Installing collected packages: geographiclib, geopy
Successfully installed geographiclib-1.52 geopy-2.2.0
gabriell@gabriell-Lenovo-920-13IKB:~/lot/lesson3$ python3 coordinates.py 'SC Williams Library'
SC Williams Library, Field House Road, Hoboken, Hudson County, New Jersey, 07030, United States
(40.74480675, -74.02532862031404)
gabriell@gabriell-Lenovo-920-13IKB:~/lot/lesson3$ python3 address.py '40.74480675, -74.02532862031404'
SC Williams Library, Field House Road, Hoboken, Hudson County, New Jersey, 07030, United States
(40.74480675, -74.02532862031404)
gabriell@gabriell-Lenovo-920-13IKB:~/lot/lesson3$ python3 cpu.py
Traceback (most recent call last):
  File "cpu.py", line 2, in <module>
    import psutil
ModuleNotFoundError: No module named 'psutil'
gabriell@gabriell-Lenovo-920-13IKB:~/lot/lesson3$ pip3 install psutil
Collecting psutil
  Downloading https://files.pythonhosted.org/packages/47/b6/ea8a7728f096a597f0032564e8013b705aa992a0990becd773dcd4d7b4a7/psutil-5.9.0.tar.gz (478kB)
    100% |#####| 481kB 1.7MB/s
Building wheels for collected packages: psutil
  Running setup.py bdist_wheel for psutil ... done
  Stored in directory: /home/gabriell/.cache/pip/wheels/b8/c4/6a/265e0f0711d5715c6554bf14f58e74f24be139a5036a3f626
Successfully built psutil
Installing collected packages: psutil
Successfully installed psutil-5.9.0
gabriell@gabriell-Lenovo-920-13IKB:~/lot/lesson3$ python3 cpu.py
The number of physical cores = 4
The number of logical CPUs = 8
The utilization per second as a percentage for each CPU
[[3.9, 2.0, 2.0, 1.0, 9.1, 1.0, 2.0, 5.0],
 [3.0, 3.0, 4.0, 2.0, 6.1, 8.9, 4.0, 3.1],
 [0.0, 4.0, 2.0, 8.1, 1.0, 0.0, 1.0, 1.0],
 [1.0, 3.0, 2.0, 8.1, 1.0, 1.0, 0.0, 0.0],
 [0.0, 2.0, 0.0, 8.9, 0.0, 0.0, 2.0, 1.0],
 [4.9, 2.9, 1.0, 3.0, 8.1, 5.0, 2.0, 1.0],
 [1.0, 2.0, 1.0, 3.0, 8.9, 2.0, 1.0, 2.0],
 [0.0, 4.0, 1.0, 3.0, 9.0, 2.0, 0.0, 1.0],
 [0.0, 4.0, 2.0, 1.0, 1.0, 8.1, 1.0, 0.0],
 [2.0, 3.0, 1.0, 1.0, 2.0, 2.0, 3.0, 0.9]]
gabriell@gabriell-Lenovo-920-13IKB:~/lot/lesson3$ python3 battery.py
sbattery(percent=79.4378913649686, secsleft=33534, power_plugged=False)
gabriell@gabriell-Lenovo-920-13IKB:~/lot/lesson3$ python3 documentstats.py document.txt
Word Count: 1342
Top Ten Words: [('our', 26), ('their', 20), ('has', 20), ('he', 19), ('them', 15), ('these', 13), ('have', 11), ('we', 11), ('us', 11), ('people', 10)]
gabriell@gabriell-Lenovo-920-13IKB:~/lot/lesson3$
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