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1 Lab. Installation of KoNLPy, Mecab on Ubuntu
2
3
4 1. JDK 설치
5 1)konlpy를 사용하기 위해서는 JDK 설치가 선행되어야 한다.
6 2)jdk는 1.8 버전을 설치하겠다.
7 3)Oracle Java를 설치해도 되고, OpenJDK를 설치해도 된다.
8 4)여기서는 OpenJDK를 설치하겠다.
9 $ sudo apt-get update
10 $ sudo apt-get install openjdk-8-jdk
11
12 5)설치 후 Java version으로 test.
13 $ java -version
14 openjdk version "1.8.0_222"
15 OpenJDK Runtime Environment (build 1.8.0_222-8u222-b10-1ubuntu1~18.04.1-b10)
16 OpenJDK 64-Bit Server VM (build 25.222-b10, mixed mode)
17
18
19 2. KoNLPy 설치
20 1)아래와 같이 konlpy와 jpyype1-py3를 설치한다.
21 $ sudo pip3 install konlpy
22
23 2)설치가 완료되었다면 Python에서 konlpy 패키지를 사용할 수 있는지 확인한다.
24 $ python3
25 Python 3.7.4 (default, Sep 8 2019, 02:39:09)
26 [GCC 7.4.0] on linux
27 Type "help", "copyright", "credits" or "license" for more information.
28 >>> from konlpy.tag import Komoran
29 >>> komoran = Komoran()
30 /usr/local/lib/python3.7/site-packages/jpyype/_core.py:210: UserWarning:
31 -----
32 Deprecated: convertStrings was not specified when starting the JVM. The default
33 behavior in JPyype will be False starting in JPyype 0.8. The recommended setting
34 for new code is convertStrings=False. The legacy value of True was assumed for
35 this session. If you are a user of an application that reported this warning,
36 please file a ticket with the developer.
37 -----
38
39 """
40 >>> text = u"""아름답지만 다소 복잡하기도한 한국어는 전세계에서 13번째로 많이 사용되는 언어입니다."""
41 >>> print(komoran.morphs(text))
42 ['아름답', '지만', '다소', '복잡', '하', '기', '도', '하', 'ㄴ', '한국어', '는', '전', '세계', '에서', '13', '번', '째', '로', '많
43 이', '사용', '되', '는', '언어', '이', '입니다', '.']
44
45 >>> exit()
46
47 3. Mecab Downloads and Installation
48 1)mecab 홈페이지에서 최신 버전을 download한다.
49 https://bitbucket.org/eunjeon/mecab-ko/downloads/mecab-0.996-ko-0.9.2.tar.gz
50
51 2)혹은 Downloads directory로 이동하여 wget으로 받는다.
52 $ cd Downloads
53 $ wget https://bitbucket.org/eunjeon/mecab-ko/downloads/mecab-0.996-ko-0.9.2.tar.gz
```

```
54
55 3)Installation
56 ~/Downloads$ tar xvfz mecab-0.996-ko-0.9.2.tar.gz
57 ~/Downloads$ cd mecab-0.996-ko-0.9.2
58 ~/Downloads/mecab-0.996-ko-0.9.2$ ./configure
59 ~/Downloads/mecab-0.996-ko-0.9.2$ make
60 ~/Downloads/mecab-0.996-ko-0.9.2$ make check
61 ~/Downloads/mecab-0.996-ko-0.9.2$ sudo make install
62
63 4)version check
64 -version을 check하면 아래와 같은 오류가 발생한다.
65
66 ~/Downloads/mecab-0.996-ko-0.9.2$ mecab --version
67 mecab: error while loading shared libraries: libmecab.so.2: cannot open shared object file:
    No such file or directory
68
69 -그럼 library를 loading하고 다시 version check한다.
70
71 ~/Downloads/mecab-0.996-ko-0.9.2$ sudo ldconfig
72 ~/Downloads/mecab-0.996-ko-0.9.2$ mecab --version
73 mecab of 0.996/ko-0.9.2
74
75
76 4. Mecab 한국어 사전 Download and Installation
77 1)사전 홈페이지에서 최신 version을 download한다.
78
79 https://bitbucket.org/eunjeon/mecab-ko-dic/downloads/mecab-ko-dic-2.1.1-20180720.tar.gz
80
81 2)또는 위와 같이 wget으로 Download해도 된다.
82
83 ~/Downloads$ wget
84 https://bitbucket.org/eunjeon/mecab-ko-dic/downloads/mecab-ko-dic-2.1.1-20180720.tar.gz
85
86 3)Installation
87
88 ~/Downloads$ tar xvfz mecab-ko-dic-2.1.1-20180720.tar.gz
89 ~/Downloads$ cd mecab-ko-dic-2.1.1-20180720
90 ~/Downloads/mecab-ko-dic-2.1.1-20180720$ ./configure
91 ~/Downloads/mecab-ko-dic-2.1.1-20180720$ make
92 ~/Downloads/mecab-ko-dic-2.1.1-20180720$ sudo make install
93
94 4)설치가 잘 됐는지 directory를 확인하도록 한다.
95
96 $ mecab -d /usr/local/lib/mecab/dic/mecab-ko-dic
97 오늘은 날씨가 매우 좋습니다. 태풍이 몰려간 후여서 그런 것 같습니다
98 오 NR,*F,오,*,*,*
99 날씨 NNG,*F,날씨,*,*,*
100 가 JKS,*F,가,*,*,*
101 매우 MAG,성분부사|정도부사,F,매우,*,*,*
102 좋 VA,*T,좋,*,*,*
103 습니다 EF,*F,습니다,*,*,*
104 . SF,*,*,*,*
105 태풍 NNG,*T,태풍,*,*,*
106 이 JKS,*F,이,*,*,*
```

```
106 물러간 VV+ETM,* ,T,물러간,Inflect,VV,ETM,물러가/VV/*+ㄴ/ETM/*
107 후 NNG,* ,F,후,* ,* ,* ,*
108 여서 VCP+EC,* ,F,여서,Inflect,VCP,EC,이/VCP/*+어서/EC/*
109 그런 MM,~명사,T,그런,* ,* ,* ,*
110 것 NNB,* ,T,것,* ,* ,* ,*
111 같 VA,* ,T,같,* ,* ,* ,*
112 습니다 EF,* ,F,습니다,* ,* ,* ,*
113 EOS
```

114
115 5)이번에는 python 코드에서 테스트해본다.

```
116 $ python3
117 Python 3.7.4 (default, Sep 8 2019, 02:39:09)
118 [GCC 7.4.0] on linux
119 Type "help", "copyright", "credits" or "license" for more information.
```

```
120 >>> from konlpy.tag import Mecab
121 >>> mecab = Mecab()
122 Traceback (most recent call last):
123   File "/usr/local/lib/python3.7/site-packages/konlpy/tag/_mecab.py", line 107, in __init__
124     self.tagger = Tagger('-d %s' % dicpath)
125 NameError: name 'Tagger' is not defined
```

126
127 During handling of the above exception, another exception occurred:

```
128 Traceback (most recent call last):
129   File "<stdin>", line 1, in <module>
130   File "/usr/local/lib/python3.7/site-packages/konlpy/tag/_mecab.py", line 112, in __init__
131     raise Exception('Install MeCab in order to use it: http://konlpy.org/en/latest/install/')
132 Exception: Install MeCab in order to use it: http://konlpy.org/en/latest/install/
```

133
134 6)KoNLPy에서 Mecab 오류

135 -위에 나온대로, KoNLPy에서 Mecab을 쓰려는데 오류가 난다.

136 -일단 konlpy 공식문서대로 아래의 명령을 실행한다.

```
137 $ sudo apt install curl
138 $ sudo apt install git
139 $ bash <(curl -s
140 https://raw.githubusercontent.com/konlpy/konlpy/master/scripts/mecab.sh)
141 ...
142 ...
143 mecab-ko is already installed
144 mecab-ko-dic is already installed
145 Install mecab-python
146 /tmp ~
147 Cloning into 'mecab-python-0.996'...
148 remote: Counting objects: 17, done.
149 remote: Compressing objects: 100% (16/16), done.
150 remote: Total 17 (delta 3), reused 0 (delta 0)
151 Unpacking objects: 100% (17/17), done.
152 ~
153 Processing /tmp/mecab-python-0.996
154 Building wheels for collected packages: mecab-python
155 Running setup.py bdist_wheel for mecab-python ... done
```

```
159         Stored in directory:
           /home/instructor/.cache/pip/wheels/99/75/a6/e9e73a1dbd73579383644942ef18a6d17ad7
           28a3052a1147fb
160     Successfully built mecab-python
161     Installing collected packages: mecab-python
162     Successfully installed mecab-python-0.996-ko-0.9.2
163     Done.
164
165
166 7)이번에는 python 코드에서 테스트해본다.
167
168     $ python3
169     Python 3.7.4 (default, Sep  8 2019, 02:39:09)
170     [GCC 7.4.0] on linux
171     Type "help", "copyright", "credits" or "license" for more information.
172
173     >>> from konlpy.tag import Mecab
174     >>> mecab = Mecab()
175     Traceback (most recent call last):
176       File "/usr/local/lib/python3.7/site-packages/konlpy/tag/_mecab.py", line 107, in __init__
177         self.tagger = Tagger('-d %s' % dicpath)
178     NameError: name 'Tagger' is not defined
179
180     During handling of the above exception, another exception occurred:
181
182     Traceback (most recent call last):
183       File "<stdin>", line 1, in <module>
184       File "/usr/local/lib/python3.7/site-packages/konlpy/tag/_mecab.py", line 112, in __init__
185         raise Exception('Install MeCab in order to use it: http://konlpy.org/en/latest/install/')
186     Exception: Install MeCab in order to use it: http://konlpy.org/en/latest/install/
187
188     -같은 error가 발생한다.
189     -이 문제는 libmecab.so.2 link를 생성하면 해결된다.
190
191     $ cd Download/mecab-ko-dic-2.1.1-20180720
192     ~/Downloads/mecab-ko-dic-2.1.1-20180720$ sudo ldconfig
193     ~/Downloads/mecab-ko-dic-2.1.1-20180720$ ldconfig -p | grep /usr/local/lib
194     libmecab.so.2 (libc6,x86-64) => /usr/local/lib/libmecab.so.2
195     libmecab.so (libc6,x86-64) => /usr/local/lib/libmecab.so
196
197     -다음과 같은 작업을 실행한다.
198
199     $ cd Downloads
200     ~/Downloads$ git clone https://bitbucket.org/eunjeon/mecab-python-0.996.git
201     ~/Downloads$ cd mecab-python-0.996/
202     mecab-python-0.996$ python3 setup.py build
203     mecab-python-0.996$ sudo python3 setup.py install
204
205     -test 해보자.
206     $ python3
207     Python 3.7.4 (default, Sep  8 2019, 02:39:09)
208     [GCC 7.4.0] on linux
209     Type "help", "copyright", "credits" or "license" for more information.
210
```

```
211 >>> from konlpy.tag import Mecab
212 >>> mecab = Mecab()
213 >>> text = u""""오늘은 날씨가 매우 좋습니다. 태풍이 물러간 후여서 그런것 같습니다""""
214 >>> mecab.morphs(text)
215 ['오늘', '은', '날씨', '가', '매우', '좋', '습니다', '.', '태풍', '이', '물러간', '후', '여서', '그런', '것', '같', '습니다']
216
217
218 5. Anaconda에 KoNLPy와 Mecab 설치하기
219 1)현재 python3에만 설치되어 있고 Anaconda에는 설치되어 있지 않다.
220 2)Anaconda3에 konlpy를 설치한다.
221
222 $ cd anaconda3/bin
223 $ ~/anaconda3/bin$ ./pip install konlpy
224 $ ~/anaconda3/bin$ ./pip list
225 ...
226 konlpy          0.5.1
227
228 3)Jupyter Notebook에서 또는 ipython에서 테스트한다.
229 4)하지만, 아직 Mecab은 위에서 본 error가 똑같이 발생한다.
230 5)그 이유는 위에서 해결한 것은 python3에 대한 mecab설정이었고, 아직 Anaconda는 mecab 설정이 안되어 있기 때
문이다.
231 6)그래서 Anaconda에도 똑같이 해야 한다.
232 7)다음과 같은 작업을 실행한다.
233
234 $ cd Downloads
235 ~/Downloads$ cd mecab-python-0.996/
236 mecab-python-0.996$ ~/anaconda3/bin/python3.7 setup.py build
237 mecab-python-0.996$ sudo ~/anaconda3/bin/python3.7 setup.py install
238
239 8)테스트
240 -$ anaconda3/bin/python3.7에서 테스트
241 -jupyter notebook에서도 테스트 할 것
```