Manual de Instalación Opener

Requisitos:
- A mac / linux / unix kind of operating system
- JRuby 1.7.9+
- Python 2.6+
- Java 1.7+
- Perl 5+ (Viene instalado en linux)
- libarchive

1. Instalar JDK 7
$ sudo add-apt-repository ppa:webupd8team/java
$ sudo apt-get update
$ sudo apt-get install oracle-java7-installer

2. Instalar rvm
$ sudo apt-get install build-essential libssl-dev libreadline5 libreadline5-dev zlib1g zlib1g-dev curl
$ \curl -sSL https://get.rvm.io | bash -s -- --ignore-dotfiles
$ echo "source $HOME/.rvm/scripts/rvm" >> ~/.bash_profile

3. Instalar jruby
$ rvm install jruby
$ export PATH=~/jruby/bin:$PATH
$ rvm use jruby
$ ruby -v

```
calosh@chigo:~$ ruby -v
jruby 9.0.5.0 (2.2.3) 2016-01-26 7bee00d Java HotSpot(TM) 64-Bit Server VM 24.80
-b11 on 1.7.0_80-b15 +jit [linux-amd64]
```

4. Instalar libarchive
$ tar xzf libarchive-2.7.0.tar.gz
$ cd libarchive-2.7.0
$ ./configure
$ make
$ make check
$ make install

5. Instalar python-lxml
sudo apt-get install build-essential python-dev python-setuptools
sudo apt-get install libxml2-dev libxslt-dev
sudo apt-get install python-lxml

6. Instalar Servicios de Opener
gem update –system → En el caso de tener un error Instalar ruby gem
gem install bundler
gem install opener-language-identifier
gem install opener-tokenizer
gem install opener-pos-tagger
gem install opener-tree-tagger
gem install opener-polarity-tagger

gem install opener-property-tagger
gem install opener-constituent-parser
gem install opener-ner
gem install opener-coreference
gem install opener-ned
gem install opener-opinion-detector
gem install opener-opinion-detector-basic
gem install opener-kaf2json
gem install opener-outlet
gem install opener-scorer

Ejemplo

Ejecutar los servicios

language-identifier-server
tokenizer-server -p 9293
pos-tagger-server -p 9294
polarity-tagger-server -p 9295
opinion-detector-basic-server -p 9296
kaf2json-server -p 9297

```
calosh@chigo:~$ language-identifier-server
Puma starting in single mode...
* Version 3.4.0 (jruby 9.0.5.0 - ruby 2.2.3), codename: Owl Bowl Brawl
* Min threads: 0, max threads: 16
* Environment: development
* Listening on tcp://0.0.0.0:9292
Use Ctrl-C to stop
```

Codigo python

```python
# -*- coding: utf-8 -*-
import urllib
# language-identifier
params = {}
params['input'] = 'Puede que una actitud positiva no resuelva todos tus problemas, pero
molestará a suficientes personas para que el esfuerzo merezca la pena'
params['kaf']='true'
params = urllib.urlencode(params)
f = urllib.urlopen("http://localhost:9292/", params)
#tokenizer
s = f.read()
params = {}
params['input']=s
params['kaf']='true'
params = urllib.urlencode(params)
f = urllib.urlopen("http://localhost:9293/", params)
# pos-tagger
s = f.read()
params = {}
params['input']=s
params['kaf']='true'
params = urllib.urlencode(params)
f = urllib.urlopen("http://localhost:9294/", params)
# polarity-tagger
s = f.read()
params = {}
params['input']=s
params['kaf']='true'
```

```python
params = urllib.urlencode(params)
f = urllib.urlopen("http://localhost:9295/", params)
# opinion-detector-basic
s = f.read()
params = {}
params['input']=s
params['kaf']='true'
params = urllib.urlencode(params)
f = urllib.urlopen("http://localhost:9296/", params)
# kaf2json
s = f.read()
params = {}
params['input']=s
params['kaf']='true'
params = urllib.urlencode(params)
f = urllib.urlopen("http://localhost:9297/", params)
print f.read()
```

Resultado

```
{
        "text"      : "Puede que una actitud positiva no resuelva todos tus problemas , pero molestará
a suficientes personas para que el esfuerzo merezca la pena ",
        "language" : "es",
        "terms"    : {
        "t1":
        {
                "type"      :"open",
                "lemma"     :"poder",
                "text"      :"Puede",
                "pos"       :"V",
                "morphofeat" :"VMIP3S0",
                "sentiment" :
                {
                        "lexicon" :"General domain lexicon for Spanish .
EHU_general_lexicon_spanish",
                        "polarity":"negative"
                }
,
                "opinion"   :"o1"
        },
        "t2":
        {
                "type"      :"close",
                "lemma"     :"que",
                "text"      :"que",
                "pos"       :"C",
                "morphofeat" :"CS"
        },
        "t3":
        {
                "type"      :"close",
                "lemma"     :"uno",
                "text"      :"una",
```

```
            "pos"        :"D",
            "morphofeat" :"DI0FS0"
        },
        "t4":
        {
            "type"       :"open",
            "lemma"      :"actitud",
            "text"       :"actitud",
            "pos"        :"N",
            "morphofeat" :"NCFS000",
            "sentiment"  :
            {
                    "lexicon" :"General domain lexicon for Spanish .
EHU_general_lexicon_spanish",
                    "polarity":"neutral"
            }
,
            "opinion"    :"o1"
        },
        "t5":
        {
            "type"       :"open",
            "lemma"      :"positivo",
            "text"       :"positiva",
            "pos"        :"G",
            "morphofeat" :"AQ0FS0"
        },
        "t6":
        {
            "type"       :"open",
            "lemma"      :"no",
            "text"       :"no",
            "pos"        :"A",
            "morphofeat" :"RN"
        },
        "t7":
        {
            "type"       :"open",
            "lemma"      :"resolver",
            "text"       :"resuelva",
            "pos"        :"V",
            "morphofeat" :"VMSP3S0",
            "sentiment"  :
            {
                    "lexicon" :"General domain lexicon for Spanish .
EHU_general_lexicon_spanish",
                    "polarity":"neutral"
            }

        },
        "t8":
        {
```

```
            "type"      :"close",
            "lemma"     :"todo",
            "text"      :"todos",
            "pos"       :"D",
            "morphofeat" :"DI0MP0"
    },
    "t9":
    {
            "type"      :"close",
            "lemma"     :"tu",
            "text"      :"tus",
            "pos"       :"D",
            "morphofeat" :"DP2CPS",
            "opinion"   :"o1"
    },
    "t10":
    {
            "type"      :"open",
            "lemma"     :"problema",
            "text"      :"problemas",
            "pos"       :"N",
            "morphofeat" :"NCMP000",
            "sentiment"  :
            {
                    "lexicon" :"General domain lexicon for Spanish .
EHU_general_lexicon_spanish",
                    "polarity":"negative"
            }
,
            "opinion"   :"o2"
    },
    "t11":
    {
            "type"      :"close",
            "lemma"     :",",
            "text"      :",",
            "pos"       :"O",
            "morphofeat" :"Fc"
    },
    "t12":
    {
            "type"      :"close",
            "lemma"     :"pero",
            "text"      :"pero",
            "pos"       :"C",
            "morphofeat" :"CC"
    },
    "t13":
    {
            "type"      :"open",
            "lemma"     :"molestar",
            "text"      :"molestará",
```

```
            "pos"       :"V",
            "morphofeat" :"VMIF3S0",
            "sentiment"  :
            {
                    "lexicon" :"General domain lexicon for Spanish .
EHU_general_lexicon_spanish",
                    "polarity":"negative"
            }
,
            "opinion"    :"o3"
    },
    "t14":
    {
            "type"      :"close",
            "lemma"     :"a",
            "text"      :"a",
            "pos"       :"P",
            "morphofeat" :"SPS00"
    },
    "t15":
    {
            "type"      :"close",
            "lemma"     :"suficientes",
            "text"      :"suficientes",
            "pos"       :"D",
            "morphofeat" :"DI0CP0"
    },
    "t16":
    {
            "type"      :"open",
            "lemma"     :"persona",
            "text"      :"personas",
            "pos"       :"N",
            "morphofeat" :"NCFP000",
            "sentiment"  :
            {
                    "lexicon" :"General domain lexicon for Spanish .
EHU_general_lexicon_spanish",
                    "polarity":"neutral"
            }
,
            "opinion"    :"o3"
    },
    "t17":
    {
            "type"      :"close",
            "lemma"     :"para",
            "text"      :"para",
            "pos"       :"P",
            "morphofeat" :"SPS00"
    },
    "t18":
```

```
        {
                "type"      :"close",
                "lemma"     :"que",
                "text"      :"que",
                "pos"       :"C",
                "morphofeat" :"CS"
        },
        "t19":
        {
                "type"      :"close",
                "lemma"     :"el",
                "text"      :"el",
                "pos"       :"D",
                "morphofeat" :"DA0MS0"
        },
        "t20":
        {
                "type"      :"open",
                "lemma"     :"esfuerzo",
                "text"      :"esfuerzo",
                "pos"       :"N",
                "morphofeat" :"NCMS000",
                "sentiment"  :
                {
                        "lexicon" :"General domain lexicon for Spanish .
EHU_general_lexicon_spanish",
                        "polarity":"positive"
                }
,
                "opinion"    :"o4"
        },
        "t21":
        {
                "type"      :"open",
                "lemma"     :"merecer",
                "text"      :"merezca",
                "pos"       :"V",
                "morphofeat" :"VMSP3S0"
        },
        "t22":
        {
                "type"      :"close",
                "lemma"     :"el",
                "text"      :"la",
                "pos"       :"D",
                "morphofeat" :"DA0FS0"
        },
        "t23":
        {
                "type"      :"open",
                "lemma"     :"pena",
                "text"      :"pena",
```

```
                    "pos"        :"N",
                    "morphofeat" :"NCFS000",
                    "sentiment"  :
                    {
                            "lexicon" :"General domain lexicon for Spanish .
EHU_general_lexicon_spanish",
                            "polarity":"neutral"
                    }
,
                    "opinion"    :"o4"
            }},
            "sentiments"  : {
            "s1":
            {
                    "lexicon" :"General domain lexicon for Spanish . EHU_general_lexicon_spanish",
                    "polarity":"negative",
                    "termId"  :"t1",
                    "text"    :"Puede"
            },
            "s2":
            {
                    "lexicon" :"General domain lexicon for Spanish . EHU_general_lexicon_spanish",
                    "polarity":"neutral",
                    "termId"  :"t4",
                    "text"    :"actitud"
            },
            "s3":
            {
                    "lexicon" :"General domain lexicon for Spanish . EHU_general_lexicon_spanish",
                    "polarity":"neutral",
                    "termId"  :"t7",
                    "text"    :"resuelva"
            },
            "s4":
            {
                    "lexicon" :"General domain lexicon for Spanish . EHU_general_lexicon_spanish",
                    "polarity":"negative",
                    "termId"  :"t10",
                    "text"    :"problemas"
            },
            "s5":
            {
                    "lexicon" :"General domain lexicon for Spanish . EHU_general_lexicon_spanish",
                    "polarity":"negative",
                    "termId"  :"t13",
                    "text"    :"molestará"
            },
            "s6":
            {
                    "lexicon" :"General domain lexicon for Spanish . EHU_general_lexicon_spanish",
                    "polarity":"neutral",
                    "termId"  :"t16",
```

```
        "text"    :"personas"
},
"s7":
{
        "lexicon" :"General domain lexicon for Spanish . EHU_general_lexicon_spanish",
        "polarity":"positive",
        "termId"  :"t20",
        "text"    :"esfuerzo"
},
"s8":
{
        "lexicon" :"General domain lexicon for Spanish . EHU_general_lexicon_spanish",
        "polarity":"neutral",
        "termId"  :"t23",
        "text"    :"pena"
}},"opinions"    : {
"o1":
{
        "holder"    :["t9"],
        "target"    :["t4"],
        "expression":["t1"],
        "polarity"  :"negative",
        "strength"  :"-1",
        "text"      :"Puede"
},
"o2":
{
        "holder"    :["t9"],
        "target"    :[],
        "expression":["t10"],
        "polarity"  :"negative",
        "strength"  :"-1",
        "text"      :"problemas"
},
"o3":
{
        "holder"    :["t9"],
        "target"    :["t16"],
        "expression":["t13"],
        "polarity"  :"negative",
        "strength"  :"-1",
        "text"      :"molestará"
},
"o4":
{
        "holder"    :["t9"],
        "target"    :["t23"],
        "expression":["t20"],
        "polarity"  :"positive",
        "strength"  :"1",
        "text"      :"esfuerzo"
}},
```

```
        "lp"        : [
{
        "name"      :"opener-sentence-splitter-es",
        "timestamp":"2016-04-26T21:21:46Z",
        "version" :"0.0.1",
        "layer"   :"text"
},
{
        "name"      :"opener-tokenizer-es",
        "timestamp":"2016-04-26T21:21:46Z",
        "version" :"1.0.1",
        "layer"   :"text"
},
{
        "name"      :"ehu-pos-es",
        "timestamp":"2016-04-26T16:21:49-0500",
        "version" :"1.0",
        "layer"   :"terms"
},
{
        "name"      :"VUA polarity tagger multilanguage",
        "timestamp":"2016-04-26T16:21:59ECT",
        "version" :"21may2014_1.2",
        "layer"   :"terms"
},
{
        "name"      :"Basic opinion detector with Pos",
        "timestamp":"*",
        "version" :"13may2015-2.0",
        "layer"   :"opinions"
}]
}
```

```
                        {
                            "holder"     :["t9"],
                            "target"     :[],
                            "expression":["t10"],
                            "polarity"   :"negative",
                            "strength"   :"-1",
                            "text"       :"problemas"
                        },
                        "o3":
                        {
                            "holder"     :["t9"],
                            "target"     :["t16"],
                            "expression":["t13"],
                            "polarity"   :"negative",
                            "strength"   :"-1",
                            "text"       :"molestará"
                        },
                        "o4":
                        {
                            "holder"     :["t9"],
                            "target"     :["t23"],
                            "expression":["t20"],
                            "polarity"   :"positive",
                            "strength"   :"1",
                            "text"       :"esfuerzo"
                        }},
```