

```
17/02/08 21:00:47 INFO BlockManagerMaster: Registered BlockManager
(-0.4307829, [-1.63735562648104, -2.00621178480549, -1.86242597251066, -1.02470580167082, -0.522940888712441, -0.863171
17/02/08 21:00:54 WARN BLAS: Failed to load implementation from: com.github.fommil.netlib.NativeSystemBLAS
17/02/08 21:00:54 WARN BLAS: Failed to load implementation from: com.github.fommil.netlib.NativeRefBLAS
training Mean Squared Error = 7.237245802502208
test Mean Squared Error = 8.82877171326214
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.

Process finished with exit code 0
```

2. K-Means Clustering:

Within Set Sum of Squared Errors = 0.35999999999998835

Clustering on training data:

```
{[6.1,6.1,6.1],2)
{[6.2,6.2,6.2],2)
{[7.0,7.0,7.0],5)
{[7.1,7.1,7.1],5)
{[7.2,7.2,7.2],5)
{[9.0,9.0,9.0],0)
{[9.1,9.1,9.1],0)
{[9.2,9.2,9.2],0)
{[0.0,0.0,0.0],1)
{[0.1,0.1,0.1],1)
{[0.2,0.2,0.2],1)
{[2.0,2.0,2.0],4)
{[2.1,2.1,2.1],4)
{[2.2,2.2,2.2],4)
{[4.0,4.0,4.0],3)
{[4.1,4.1,4.1],3)
{[4.2,4.2,4.2],3)
{[6.0,6.0,6.0],2)
```

3.1 Key Frame Detection:

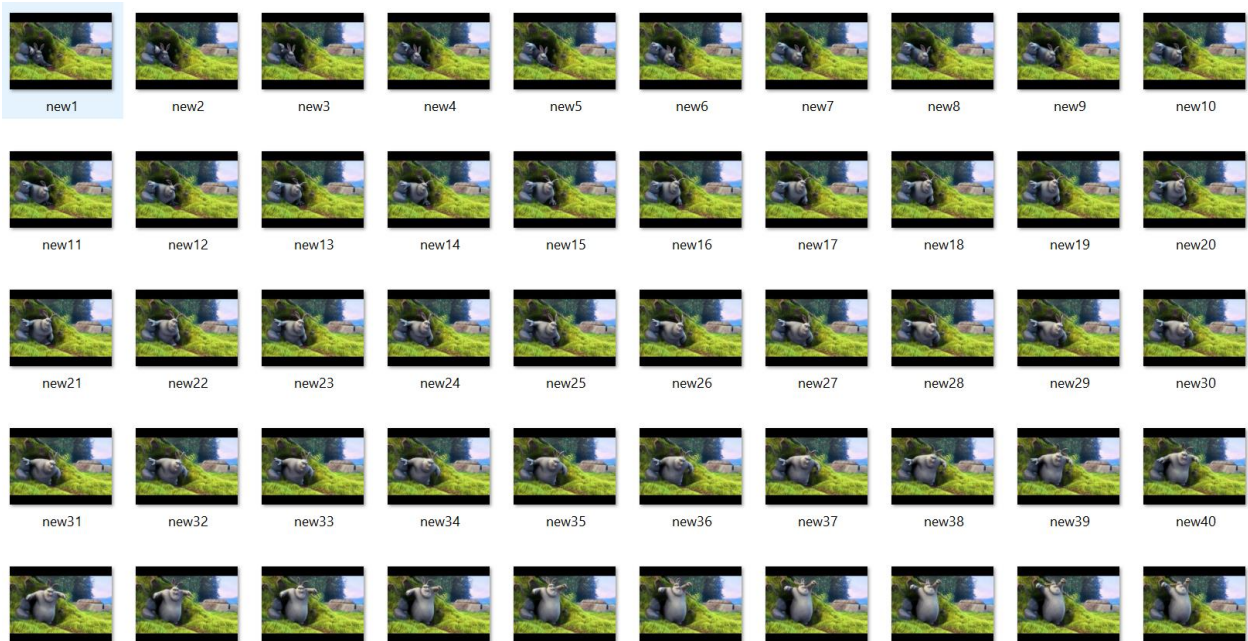
```
Feb 08, 2017 10:30:02 PM com.github.fommil.jni.JniLoader liberalLoad
INFO: successfully loaded C:\Users\Gopal\AppData\Local\Temp\jniloader2895799988661581054netlib-native_ref-win-x86_64.dll
597.0
574.0
567.0
561.0
530.0
508.0
607.0
514.0
484.0
479.0
464.0
448.0
330.0
464.0
461.0
504.0
476.0
323.0
497.0
505.0
433.0
450.0
455.0
430.0
```

3.2 Annotation:

```
new1.jpg 4 imageAnnotation.main()
new2.jpg 5 import clarifai2.dto.input.ClarifaiInput;
import clarifai2.dto.input.Image.ClarifaiImage;

ImageAnnotation
"C:\Program Files\Java\jdk1.8.0_111\bin\java" ...
*****output/mainframes\0_0.9835255354200988.jpg*****
grass - 0.99363136
nature - 0.9902829
animal - 0.985456
field - 0.9753905
beautiful - 0.97364885
hayfield - 0.9661748
outdoors - 0.94730926
young - 0.9447019
wild - 0.9444338
landscape - 0.937176
summer - 0.9371377
no person - 0.934506
rabbit - 0.9261013
one - 0.92590106
desktop - 0.9257071
illustration - 0.925286
mammal - 0.9211385
park - 0.91930324
wildlife - 0.9189389
color - 0.9173558
*****output/mainframes\209_0.004942339373970346.jpg*****
nature - 0.99505615
sky - 0.99196106
desktop - 0.9850464
landscape - 0.9776796
..... 0.9366665
```

3.3 Frames of the video:



3.4 Main Frames of the video:



0_0.9835255354
200988



209_0.00494233
9373970346

3.5 Summary:

