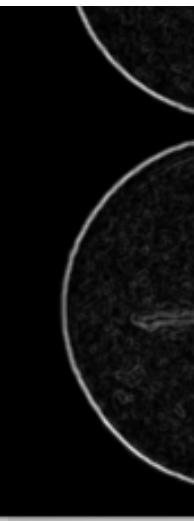


# ImageSearch Guru

A community designed to teach vision beginner to expert.

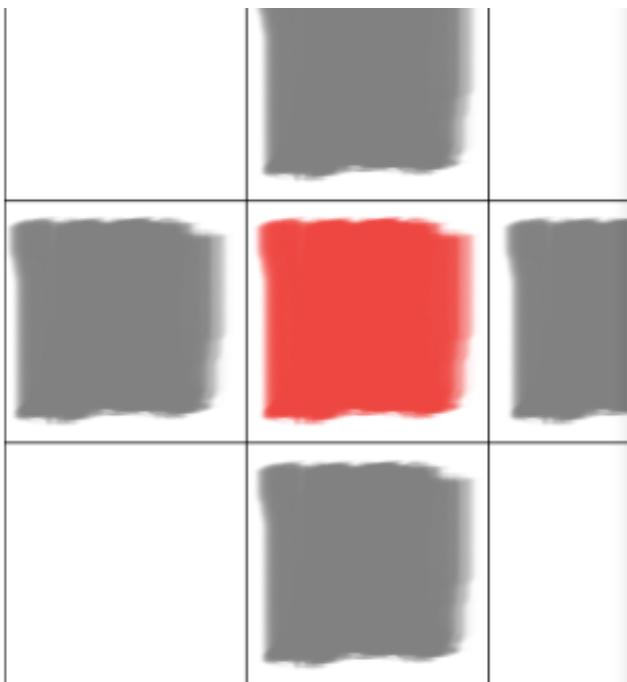


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# 4-neignoornooc

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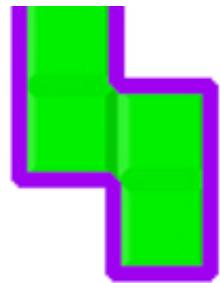


131	162	232	ε
104	93	139	†
243	26	252	·
185	135	230	·

RECTANGLE



Z-PIECE

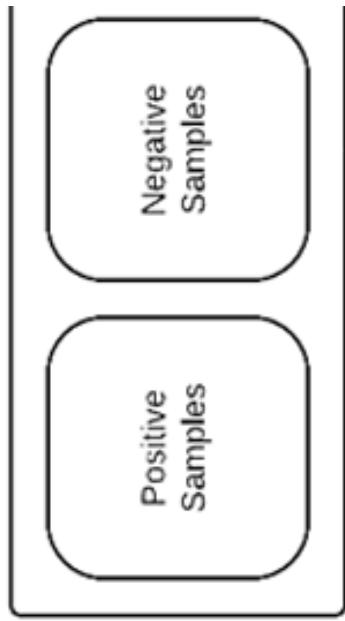


S

131	162	232		
104	81	109		
243	22	202		
185	155	200		
477	474	471		

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```
model = LinearSVM()  
model.train()
```



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features.hdf5

image\_ids

0: ukbench000001.jpg  
1: ukbench000002.jpg  
...  
999: ukbench00999.jpg

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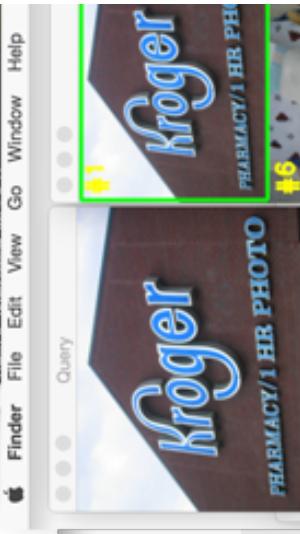
0 : 0,651

999 : 475280, 475589

### features

0: 175,45,0.07

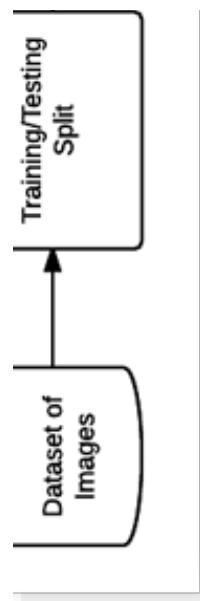
```
[PROGRESS] processed 440 images - 2015-08-2
[PROGRESS] processed 450 images - 2015-08-2
[PROGRESS] processed 460 images - 2015-08-2
[PROGRESS] processed 470 images - 2015-08-2
[PROGRESS] processed 480 images - 2015-08-2
[PROGRESS] processed 490 images - 2015-08-2
[INFO] writing 'image_ids' buffer - 2015-08-08
[INFO] writing 'index' buffer - 2015-08-26
[INFO] writing 'features' buffer - 2015-08-26
[PROGRESS] processed 500 images - 2015-08-2
[PROGRESS] processed 510 images - 2015-08-2
[PROGRESS] processed 520 images - 2015-08-2
[PROGRESS] processed 530 images - 2015-08-2
[PROGRESS] processed 540 images - 2015-08-2
[PROGRESS] processed 550 images - 2015-08-2
[PROGRESS] processed 560 images - 2015-08-2
[PROGRESS] processed 570 images - 2015-08-2
[PROGRESS] processed 580 images - 2015-08-2
[PROGRESS] processed 590 images - 2015-08-2
[PROGRESS] processed 600 images - 2015-08-2
[PROGRESS] processed 610 images - 2015-08-2
[INFO] triggering 'image_ids' db resize - 2
[INFO] old size of 'image_ids': 500; new si
[INFO] writing 'image_ids' buffer - 2015-08-08
[INFO] triggering 'index' db resize - 2015-
[INFO] old size of 'index': 500; new size:
[INFO] writing 'index' buffer - 2015-08-26
```



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ALTECH-101

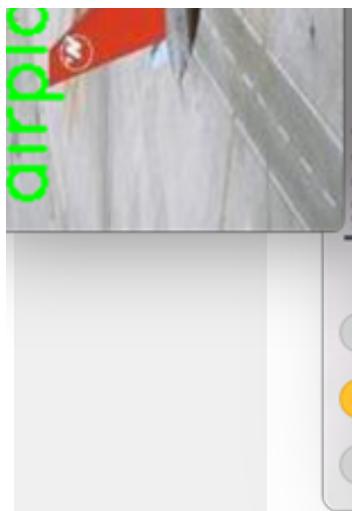
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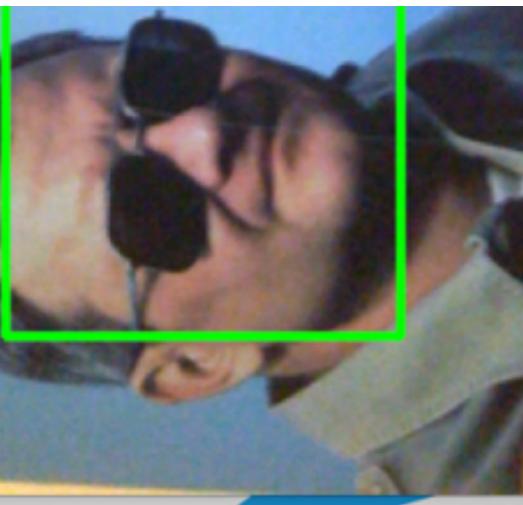
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Image



Unknown



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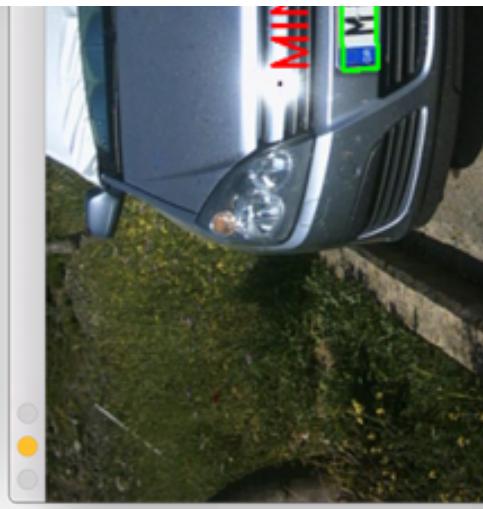
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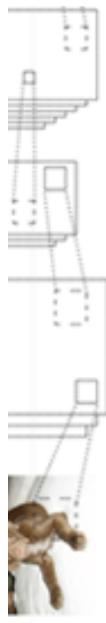
# chine

## on HDFS

## on MapReduce

```
malcolm:hadoop adrianrosebrock$ bin/hdfs dfs -ls /user/gu  
16/02/22 08:24:22 WARN util.NativeCodeLoader: Unable to l  
Found 30 items  
-rw-r--r-- 1 adrianrosebrock supergroup 0 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 25100 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 24350 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 20454 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 26994 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 28377 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 19936 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 24908 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 33460 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 25463 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 23264 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 23408 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 28139 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 18172 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 28017 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 21776 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 17619 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 22892 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 26794 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 21114 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 25461 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 25616 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 34896 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 25980 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 21152 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 23953 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 27284 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 22840 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 24616 2016  
-rw-r--r-- 1 adrianrosebrock supergroup 14528 2016  
malcolm:hadoop adrianrosebrocks$
```

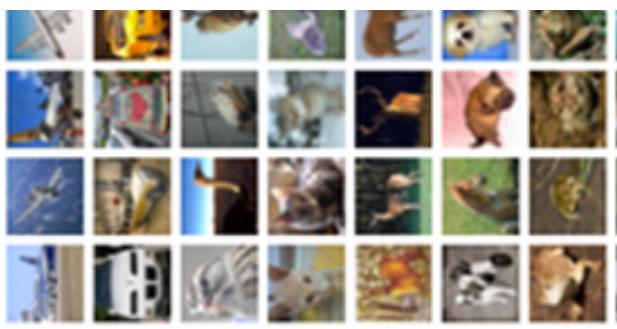
works



Dog: 31%  
Cat: 2%  
Bird: 0%  
Boat: 0%



Dog: 3%  
Cat: 21%  
Bird: 1%  
Boat: 0%

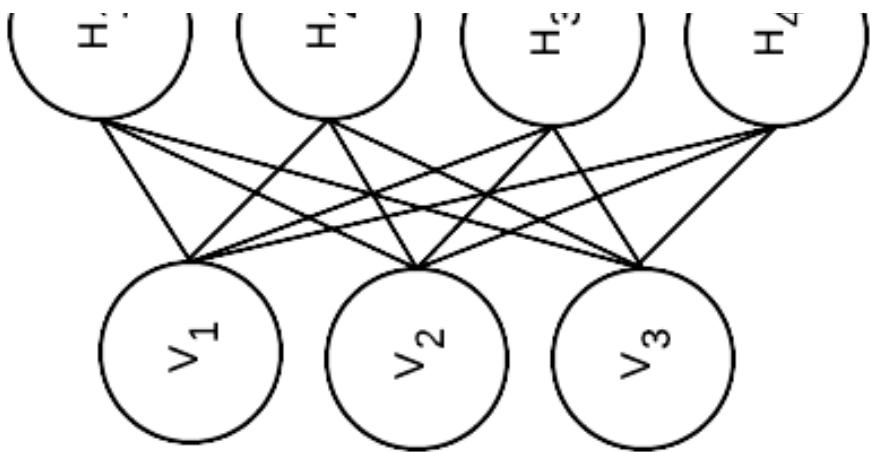


airplane  
automobile  
bird  
cat  
deer  
dog  
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environment

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# Visible Hidden



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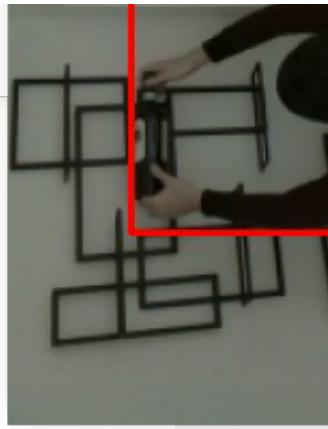


I0226	20:14:12.	648488	2201
I0226	20:14:27.	201905	2201
I0226	20:14:28.	6093081	2201
I0226	20:14:28.	609156	2201
I0226	20:14:28.	623004	2201
I0226	20:14:28.	623042	2201
I0226	20:14:28.	623064	2201
I0226	20:14:43.	247817	2201
I0226	20:14:43.	247891	2201
I0226	20:14:43.	247906	2201
I0226	20:14:57.	876446	2201
I0226	20:14:57.	876616	2201
I0226	20:14:57.	876634	2201
I0226	20:15:12.	506611	2201
I0226	20:15:12.	506688	2201
I0226	20:15:12.	506703	2201
I0226	20:15:27.	136072	2201
I0226	20:15:27.	136152	2201

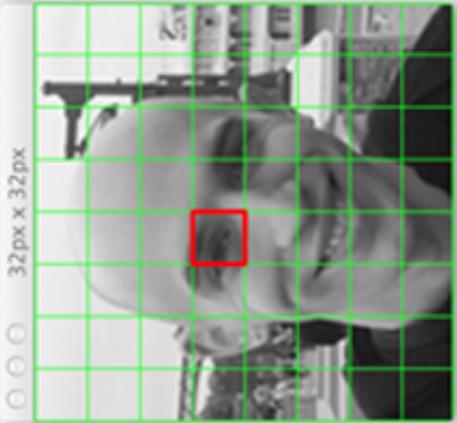
amera

era and video stream

detection



Input Image



32px x 32px



Finder File Edit

ents

Texture Image  
Descriptor



Shape Image  
Descriptor



○ ○ ○ Test Image #1

○ ○ ○ Test Image #2

○ ○ ○ Test Image #6

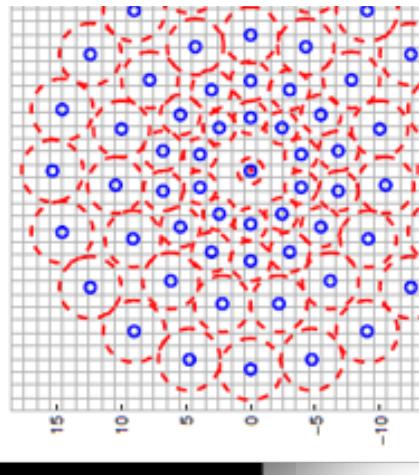
Volkswagen

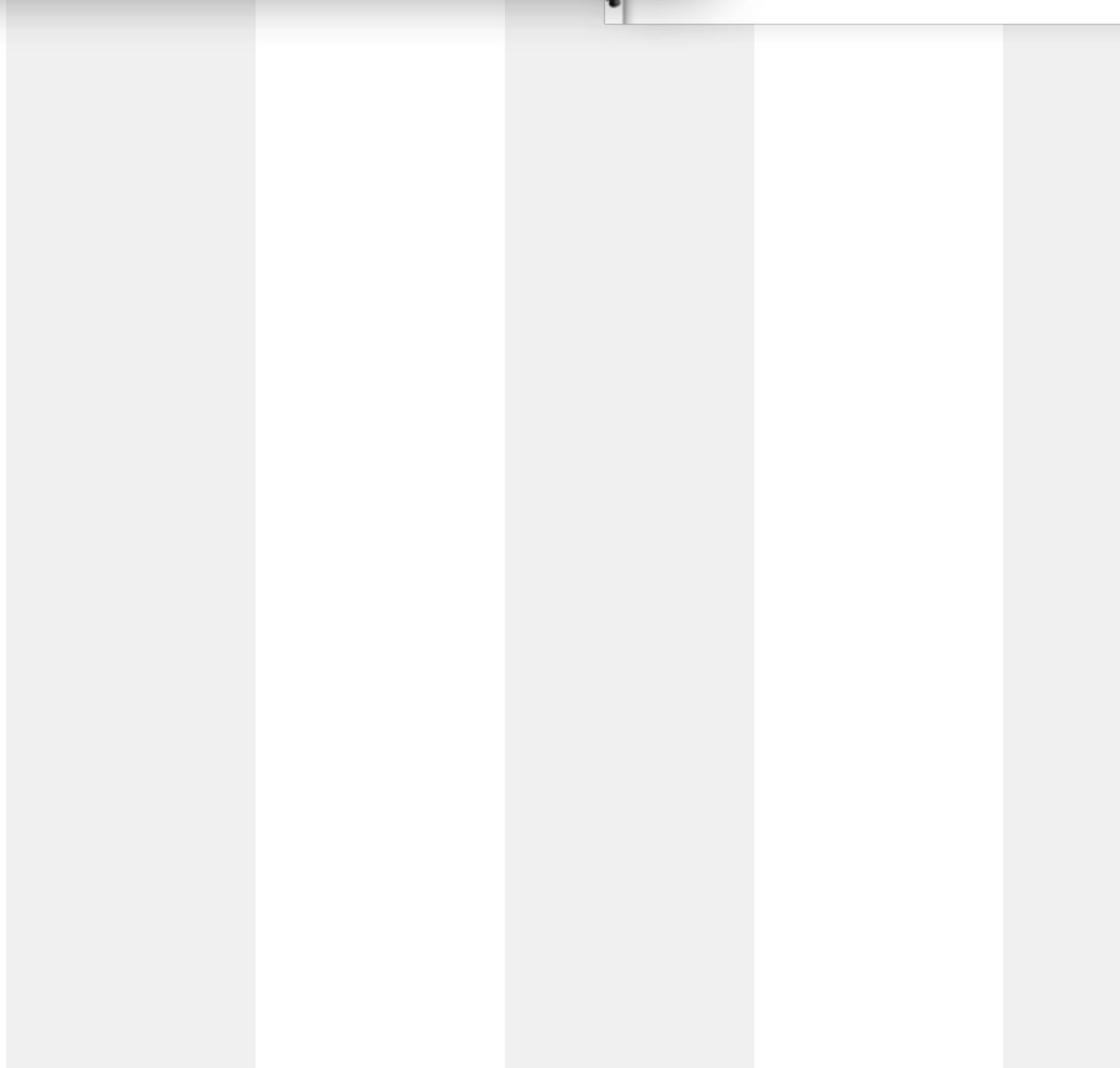
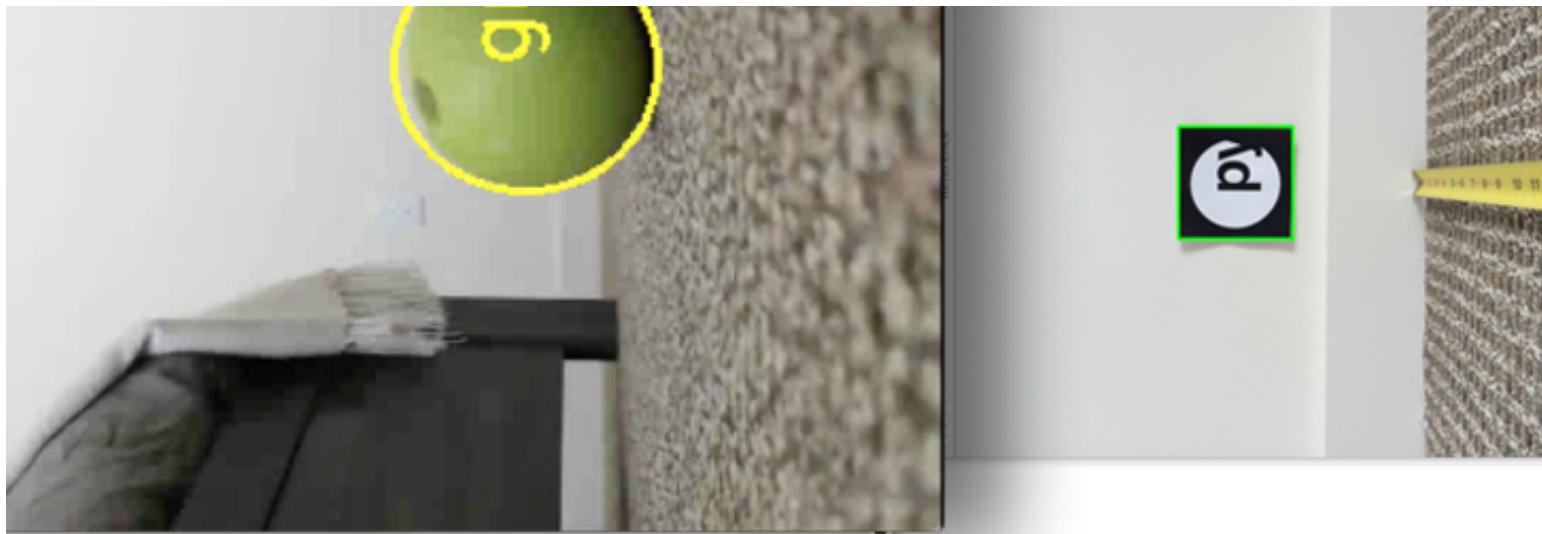
○ ○ ○ Test Image #4

Ford

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# PhoneGap



2014

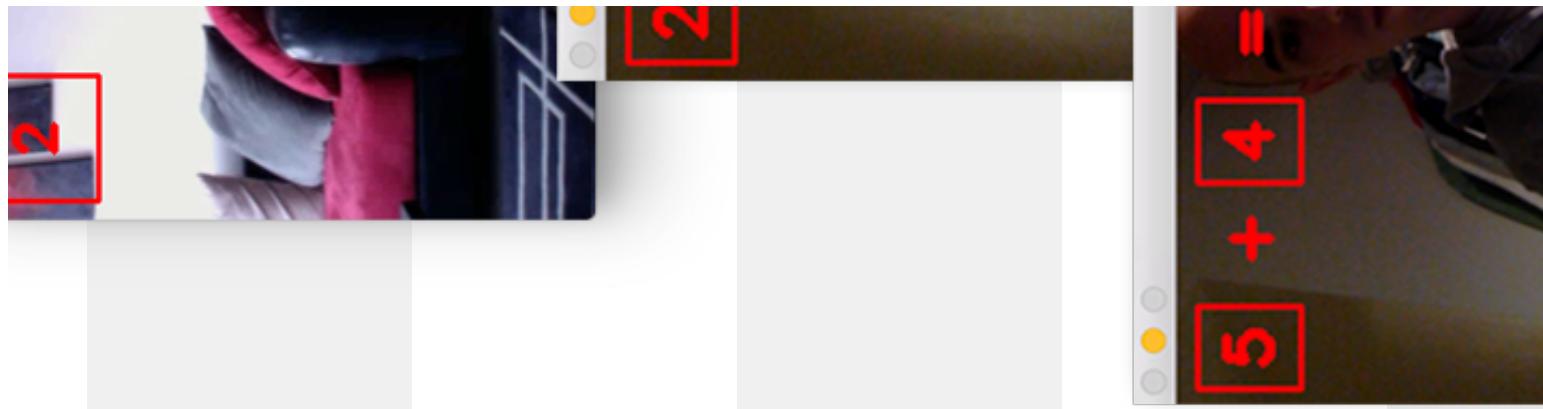
iPad



Welcome to PyImageSearch

Press the camera button to get started

entation



t don't take my word for

in See, PyImageSearch Guide is a comprehensive, in-depth, and computer vision course o

*Say it enough: PyImagesSearch*  
I really enjoy myself and the writing up (blog, course, community, etc). It tells a lot about how much too.” — Claude Cavelius

"... I have come to value combinations I have come across." — Javier Rodriguez Zauri

"... I have come to value combinations I have come across." — Javier Rodriguez Zauri

e is awesome. I've been working  
and trying the sample code with c  
our explanations are very concis  
but. I'm most impressed by the  
*I've seamlessly flowed together*  
I've really got a skill for keeping  
d on what's essential." — John St

PyImageSearch Gurus course has clearly helped researchers, and students, learn computer vision – so what about you? Ready to take the next step in your computer vision master and become a PyImageSearch Guru? Course:

here to help you out every step

I know you can do it.

I believe you are.

See you inside the course

to join Pyimagesearch