



Phillip Napieralski

REU

WEEK 2 PRESENTATION

Object Recognition

- 100 cluster centers
- Trained on 10 images from every category
- Tested on 10 from every category, except 40 from minarets

| | airplane | car | elephant | faces | minaret | rhino |
|----------|----------|------|----------|-------|---------|-------|
| airplane | 0.53 | 0.13 | 0.07 | 0 | 0.27 | 0 |
| car | 0.40 | 0.20 | 0 | 0 | 0.20 | 0.20 |
| elephant | 0 | 0 | 0.50 | 0 | 0 | 0.50 |
| faces | 0 | 0 | 0.25 | 0.50 | 0.10 | 0.15 |
| minaret | 0.05 | 0 | 0 | 0 | 0.95 | 0 |
| rhino | 0 | 0.11 | 0.09 | 0.11 | 0.43 | 0.25 |

Other Stuff

- MSVC++ 2008 (DreamSpark)
- OpenCV
- Optical Flow (David Stavens)
- Cygwin

```
Administrator@bojangles ~/Music/musicretr-1.0
$ codewav
Usage: codewav descriptors.txt recording.wav outbits.keys
```

- Ubuntu



Cool projects

- In no particular order:
 - KNIGHT – interaction detection (if available)
 - Arjun's UAV tracking or Worm guy's stuff
 - Trecvid
 - Side project: Super Resolution hard math stuff