



Mustache Cam
Gadget Freak DIY Lab
Jason Kridner
TI



Why are mustaches so cool?

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Mustache.

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etsy.com


moustache awesomeness!
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4.bp.blogspot.com


mustaches on straws haha

weheartit.com


mugs

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mustache wallpaper

wallcandyarts.com


BE A PART OF PAPER CUTS!
I'D LOVE TO STAY AND CHAT, BUT I REALLY
THANK YOU

DIY

google.com

Sc to T

Better on women and babies



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01/04/2007

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Start with OpenCV facedetect



- OpenCV is an open source library with hundreds of computer vision algorithms
 - BSD-licensed
 - C, C++, Python, ...
 - Windows, Linux, Android, Mac
- Includes a 'facedetect' tutorial

Add a mustache mask



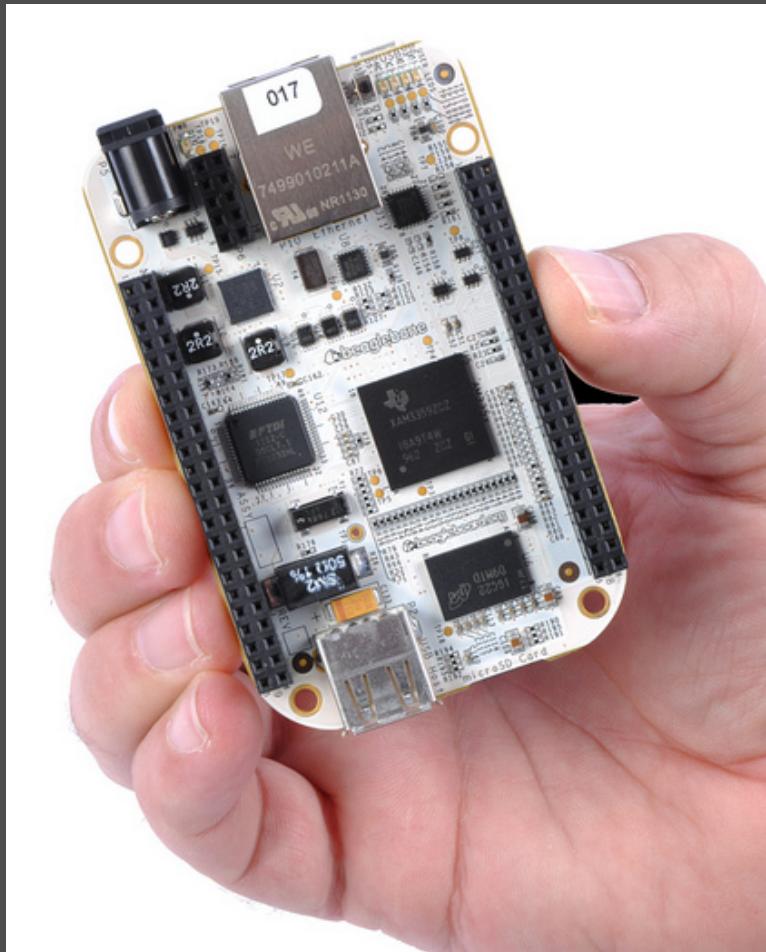
```
IplImage *iplMask =  
cvCreateImage(cvSize(faces[i].width,  
faces[i].height/scaleHeight),  
mask->depth, mask->nChannels );  
cvSetImageROI(&iplFrame,  
cvRect(faces[i].x,  
faces[i].y +  
(faces[i].height/  
scaleHeight)*offsetHeight,  
faces[i].width,  
faces[i].height/scaleHeight));  
cvResize(mask, iplMask,  
CV_INTER_LINEAR);  
cvSub(&iplFrame, iplMask, &iplFrame);  
cvResetImageROI(&iplFrame);
```

- Create a mask image sized to face
- Set region of interest on face
- Scale mustache into mask
- Apply mask to face
- Reset region of interest

Try it out on my Mac



Add BeagleBone



- ARM® Cortex™-A8
- Affordable & available
- Angstrom Distribution shipped with board comes with all needed tools
 - OpenCV libraries
 - pkg-config
 - make
 - GCC compiler

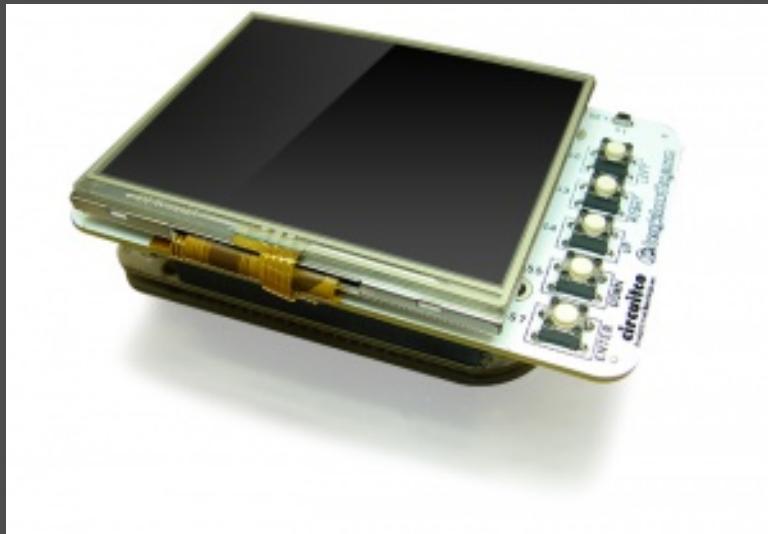
<http://beagleboard.org/bone>

Add a camera



- Chose PS3 Eye
- Works with BeagleBoard-xM as well
 - USB driver support in Linux mainline
- [BeagleBone Camera Cape](#) is an option

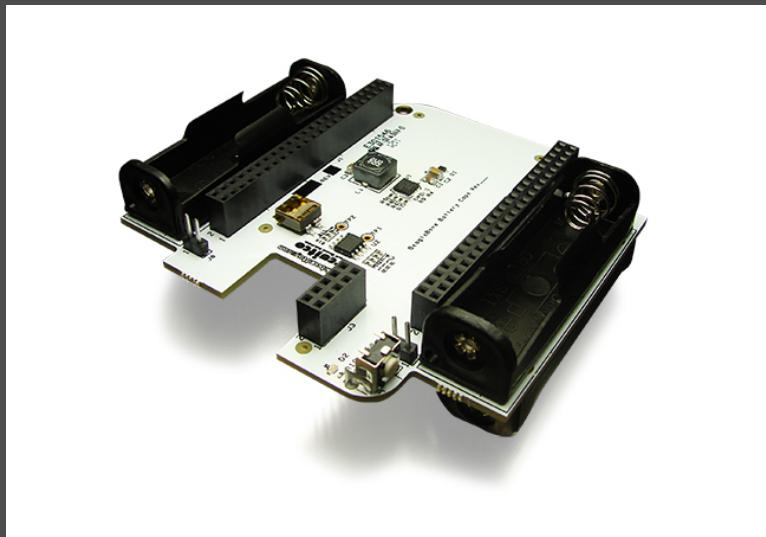
Add an LCD



- Chose BeagleBone LCD3 Cape
 - Works with provided Angstrom Distribution
- Considered 7", but decided I wanted something more wearable

<http://beagleboardcapes.com>

Add some batteries



<http://beagleboardcapes.com>

- Chose
BeagleBone Battery Cape

- Ran over 5 hours with demo
- Easy to replace AAs
- Able to fit in box

- Considered USB charger battery

- Anker USB battery

Hack up a cardboard box



- Clear packaging tape
- Pen to poke holes in the box
- Red Velcro ribbon as a necklace
- OK, so this wasn't the most glamorous package

Try it out!

For the code and updates, see

<http://beagleboard.org/project/stache>

