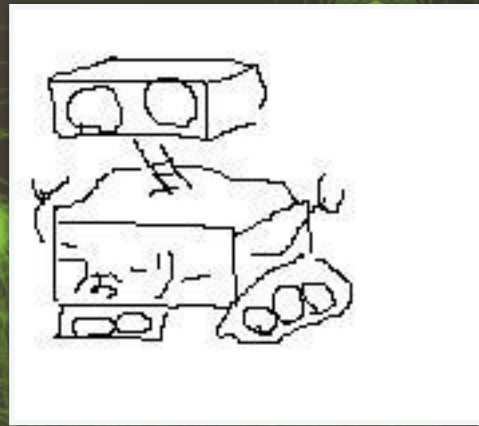
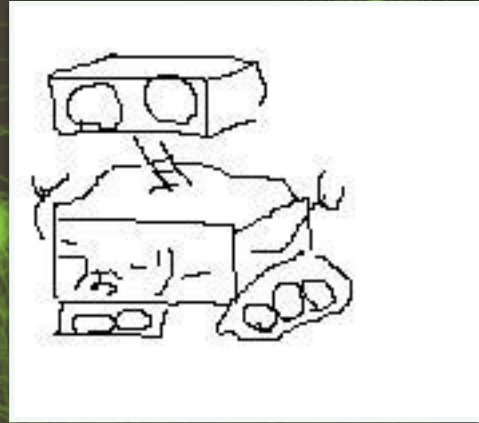


Automatic Smile Camera

@yosuke_furukawa



Twitter: @yosuke_furukawa
Github: yosuke-furukawa



Recruit Technologies, inc.

What's Node??

Server side JavaScript???

Frontend Tools???

IoT Platform???

**All your answers are
correct.**

**Node.js is JavaScript
environment**

Today: IoT Platform

Automatic Smile Camera

@yosuke_furukawa



child_process.spawn

proc.name = 'haruka';



left photo: me
right photo: daughter



left === right

**Do you think I will talk about tech?
I will be just talking about my baby**



m9(^Δ^)! ギャー



**recently, my baby smiles
sometimes.**



**I don't want to miss my
baby smiles**

ya, IoT !!!!



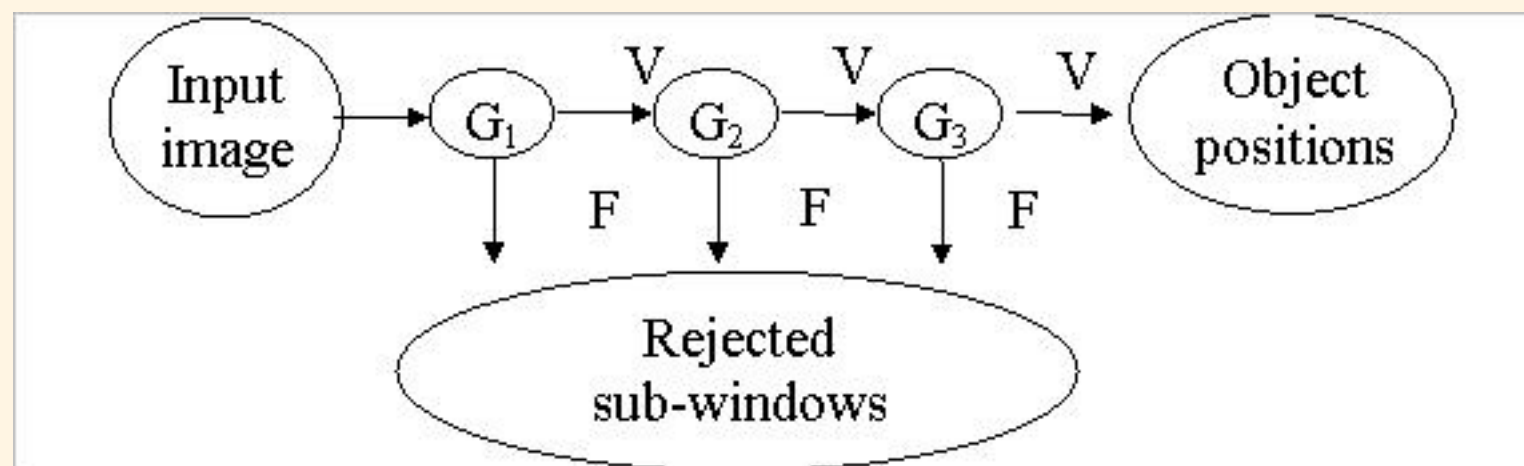
Intel Edison with webcam

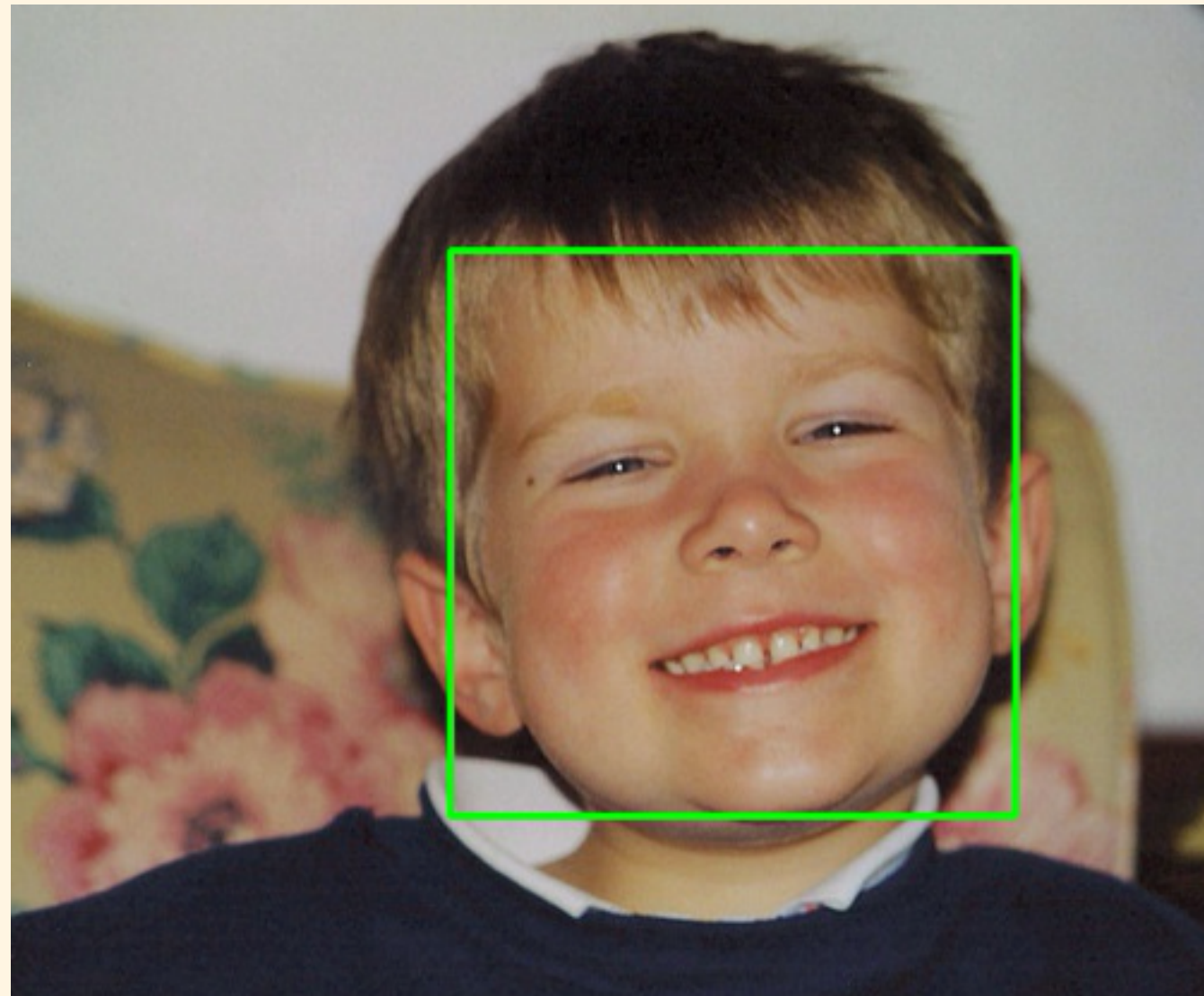


Intel Edison (is sleeping in rtech)

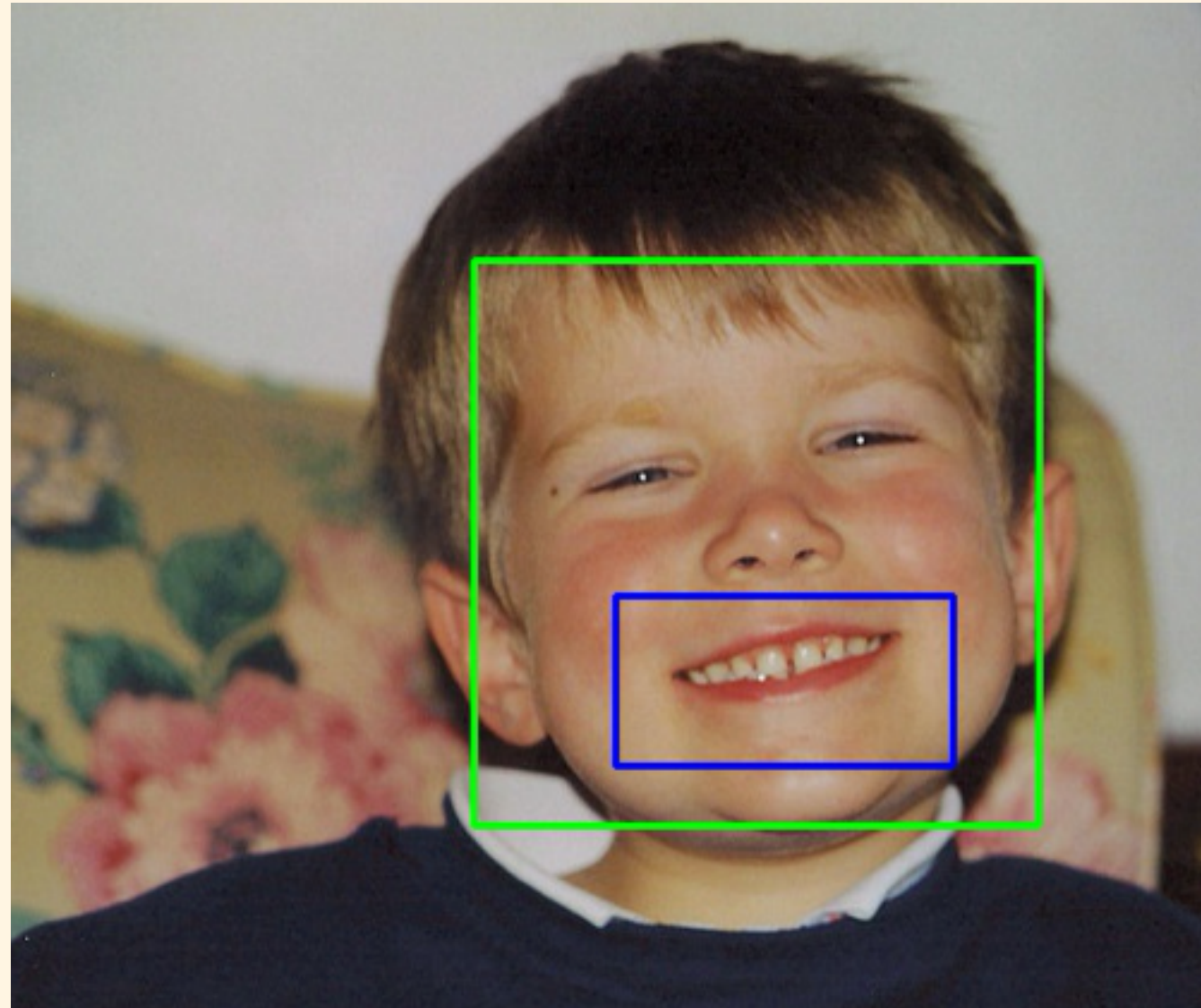
How do I detect smiles??

OpenCV

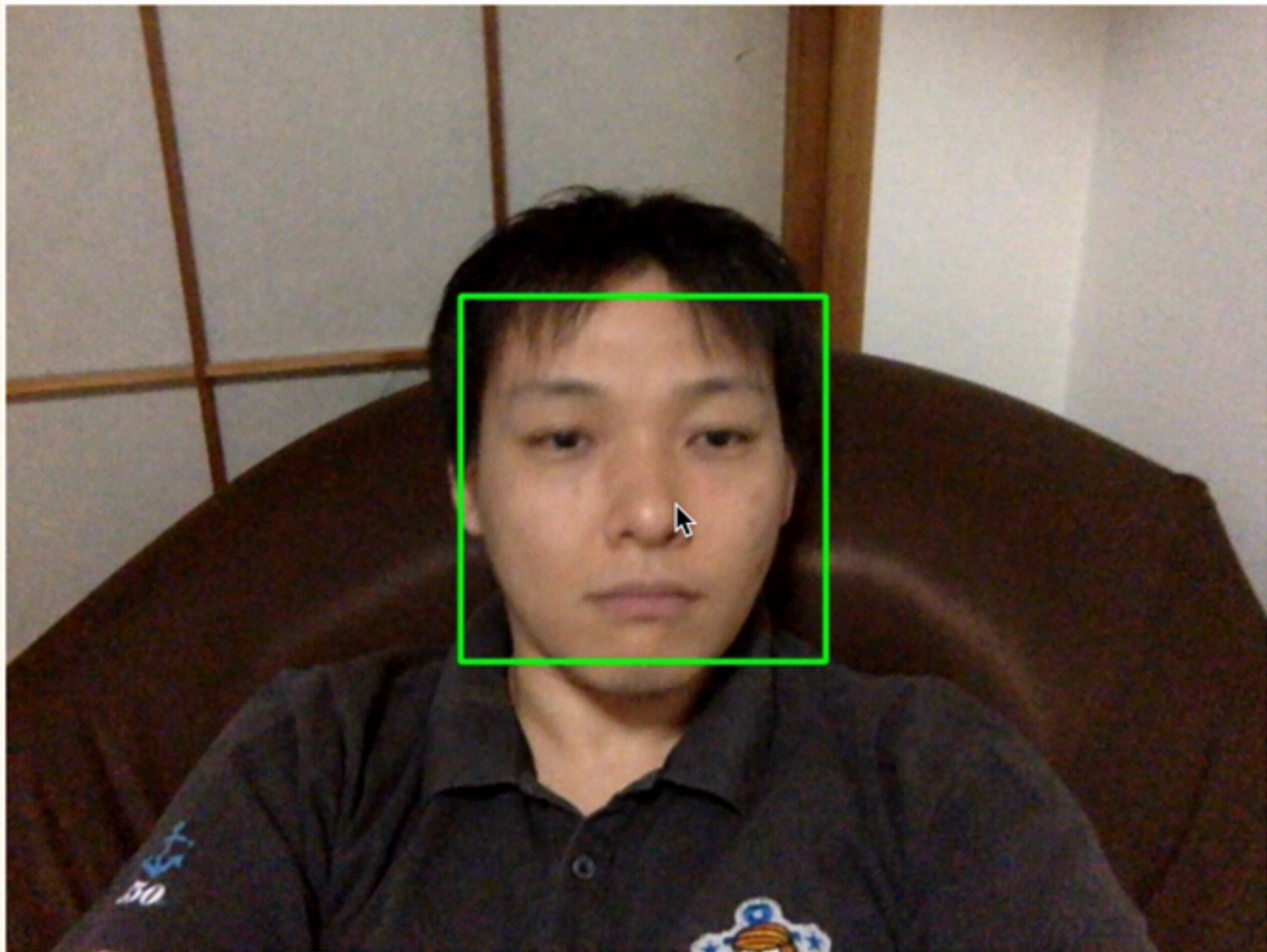




detect face



detect half moon area under the face area



DEMO

Google Cloud Vision API



"joyLikelihood": "VERY_LIKELY"

"description": "ABIERTO\n",
"local": "es"

OpenCV detects smile =>

Google Cloud Vision API=>

Send to Slack :)

OpenCV detects smile =>

Google

API=>



yosuke_furukawa 12:18 PM ☆

uploaded and commented on an image: [photo](#) ▾



“ happy: false,
dark: false,
sad: false,
surprised: false,
blurry: false,
mad: false,
hat: false,
, labels: child, person, infant, toddler, bedtime

But...

Current Problems

- Intel edison does not so fast. we need more CPU power.
- OpenCV cannot detect face if the target tilts the face.
- Google Cloud Vision API is not so good at analyzing baby face.

**However I have tried this
system in 3 days.**



yosuke_furukawa
photo ★



June 5th at 9:09 PM • 81KB JPEG • Shared in [#haruka](#) ●

Yay!! Yay!! Yay!!!



**Thank you for seeing my
baby pictures.**