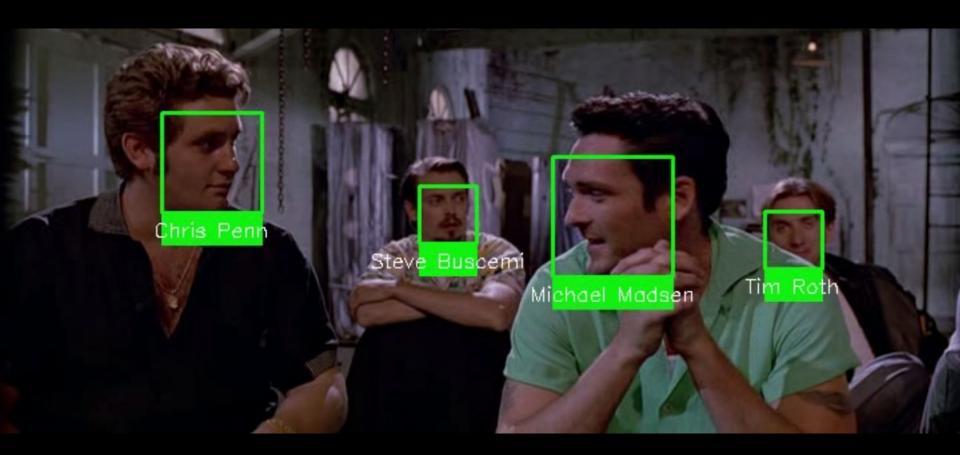
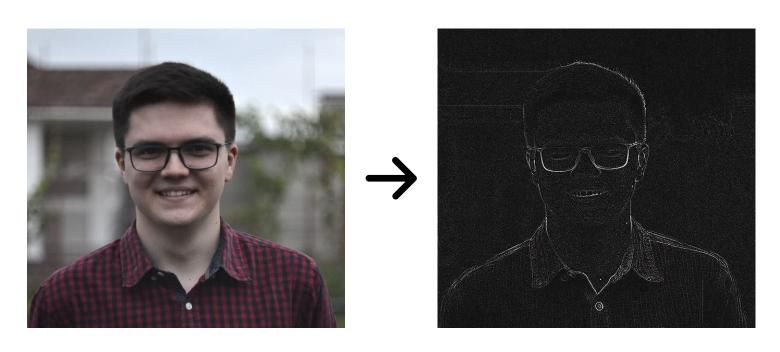
Face recognition in movies

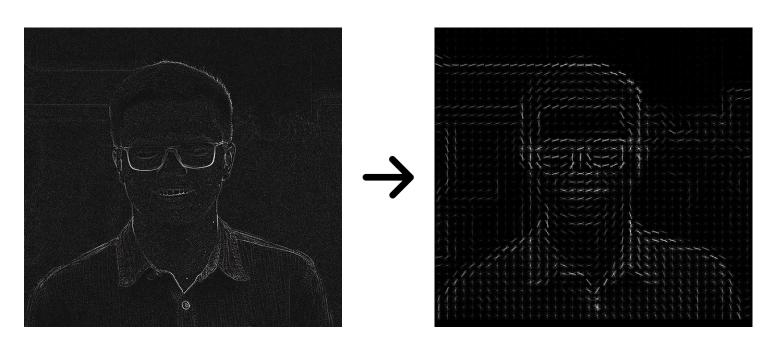
Yevhen Kuzmovych kuzmoyev@fit.cvut.cz



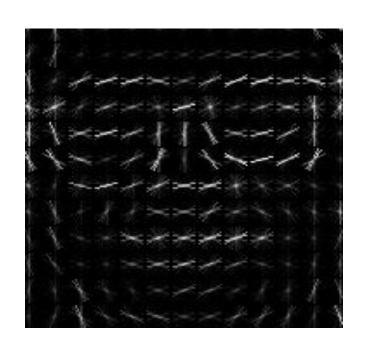
Gradient domain

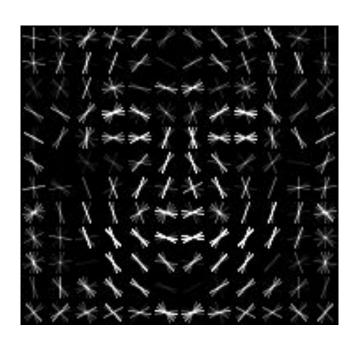


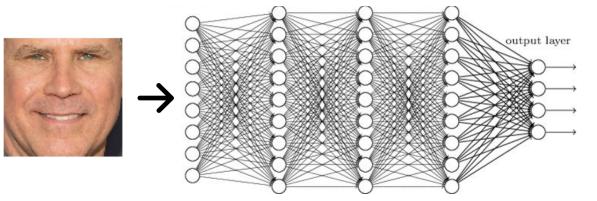
Histogram of oriented gradients



Face detection





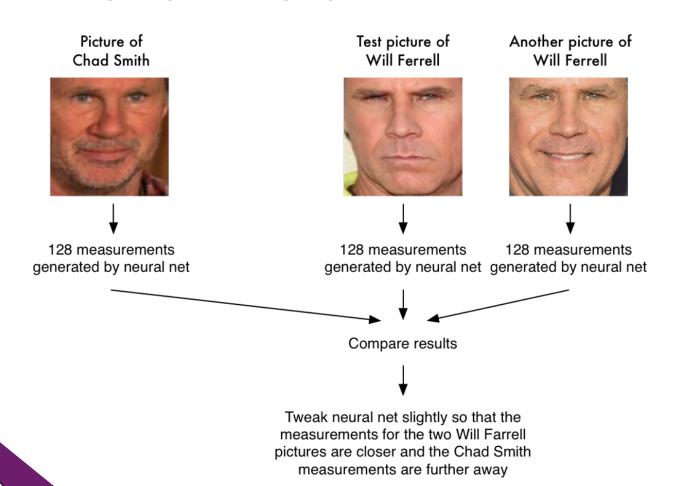


128 Measurements Generated from Image

0.045223236083984 0.060309179127216 -0.01981477253139 0.065554238855839 0.1226262897253 0.036750309169292 0.14114324748516 -0.061901587992907 -0.10568545013666 -0.074287034571171 0.0061761881224811 -0.21055991947651 0.11345765739679 0.19372203946114 0.084853030741215 0.0064811296761036 -0.16582328081131 -0.0072777755558491 -0.059730969369411 0.11478432267904 0.14841195940971 0.049525424838066 -0.051016297191381 -0.062812767922878 0.0048638740554452 -0.11443792283535 0.014683869667351 -0.081752359867096 0.037022035568953 0.12788131833076 -0.094398014247417 -0.10034311562777

-0.1281466782093 0.17521631717682 0.10801389068365 0.0731306001544 -0.029626874253154 -0.15958009660244 -0.031351584941149 -0.15042643249035 -0.12728653848171 -0.065365232527256 0.14746543765068 0.0041091227903962 0.021352224051952 -0.086726233363152 0.09463594853878 0.21180312335491 -0.035577941685915 -0.036901291459799 -0.070026844739914 -0.089621491730213 0.078333757817745 0.13227833807468 -0.14132921397686 -0.13407498598099 -0.039491076022387 0.071997955441475 0.05228154733777 -0.031709920614958 0.11009479314089 0.18632389605045 -0.11768248677254 -0.040977258235216

A single 'triplet' training step:



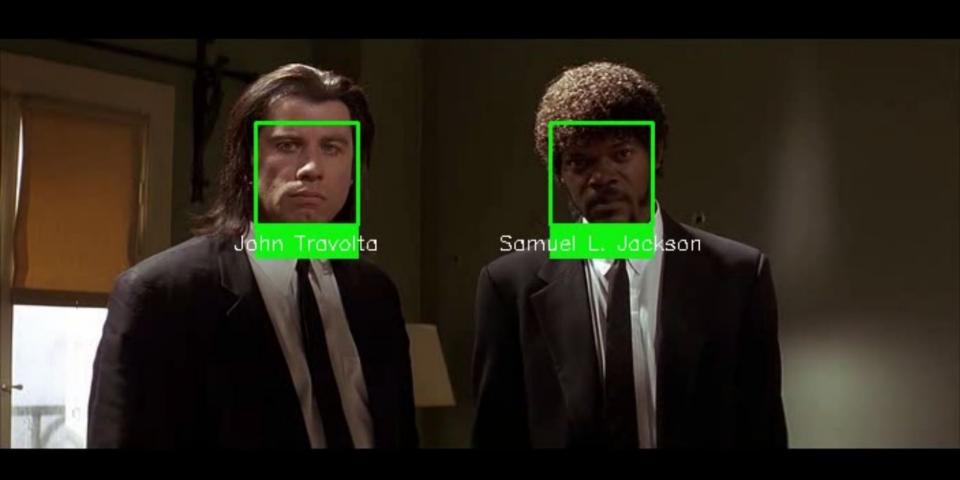


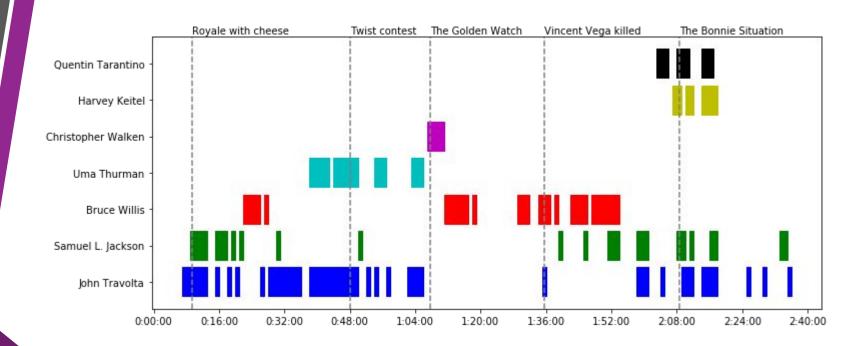
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Caveat: Our "small" dataset with 500k faces used for all our (reasonably accurate) pretrained models takes 24 hrs. ↑data = ↑time

layer	size-in	size-out
conv1	$220\times220\times3$	$110 \times 110 \times 64$
pool1	$110 \times 110 \times 64$	$55 \times 55 \times 64$
rnorm1	$55 \times 55 \times 64$	$55 \times 55 \times 64$
conv2a	$55 \times 55 \times 64$	$55 \times 55 \times 64$
conv2	$55 \times 55 \times 64$	$55 \times 55 \times 192$
rnorm2	$55 \times 55 \times 192$	$55 \times 55 \times 192$
pool2	$55 \times 55 \times 192$	$28 \times 28 \times 192$
conv3a	$28 \times 28 \times 192$	$28 \times 28 \times 192$
conv3	$28 \times 28 \times 192$	$28 \times 28 \times 384$
pool3	$28 \times 28 \times 384$	$14 \times 14 \times 384$
conv4a	$14 \times 14 \times 384$	$14 \times 14 \times 384$
conv4	$14 \times 14 \times 384$	$14 \times 14 \times 256$
conv5a	$14 \times 14 \times 256$	$14 \times 14 \times 256$
conv5	$14 \times 14 \times 256$	$14 \times 14 \times 256$
conv6a	$14 \times 14 \times 256$	$14 \times 14 \times 256$
conv6	$14 \times 14 \times 256$	$14 \times 14 \times 256$
pool4	$14 \times 14 \times 256$	$7 \times 7 \times 256$
concat	$7 \times 7 \times 256$	$7 \times 7 \times 256$
fc1	$7 \times 7 \times 256$	$1\times32\times128$
fc2	$1\times32\times128$	$1\times32\times128$
fc7128	$1\times32\times128$	$1\times1\times128$
L2	$1\times1\times128$	$1\times1\times128$





Thank you for your attention



