

Interactively building an offline background segmenter

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Not a background subtraction method!

Idea: Given a video sequence



Round 1

- 1 Label a few boxes

- 2 Learn a classifier
- 3 Check results

Round 2

- 1 Label more boxes

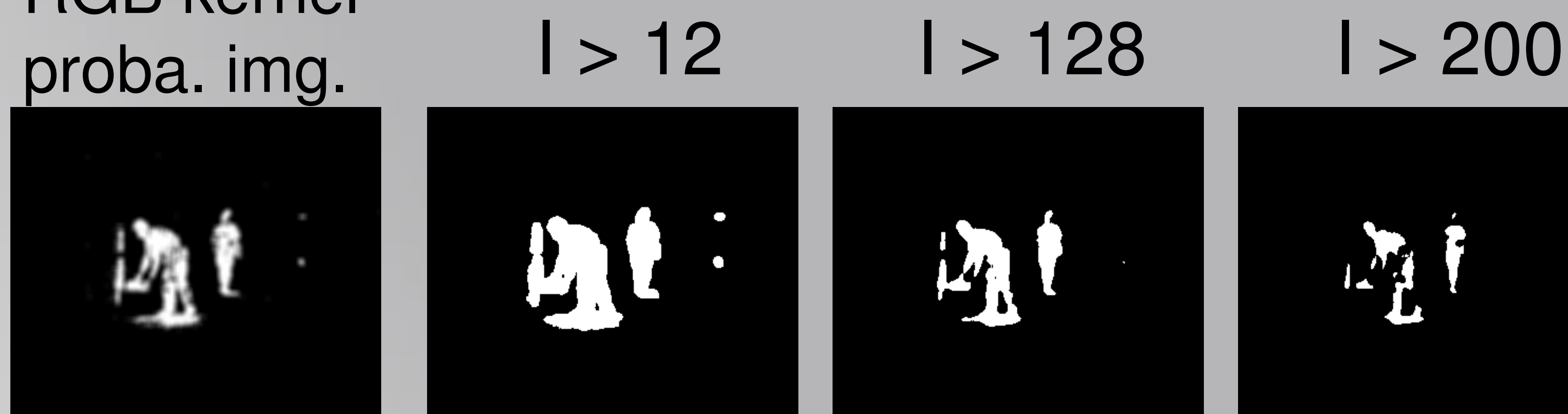
- 2 Learn a classifier
- 3 Check results

... etc

**Advantage: interactively define "FG".
 No implicit hard-coded definition.**

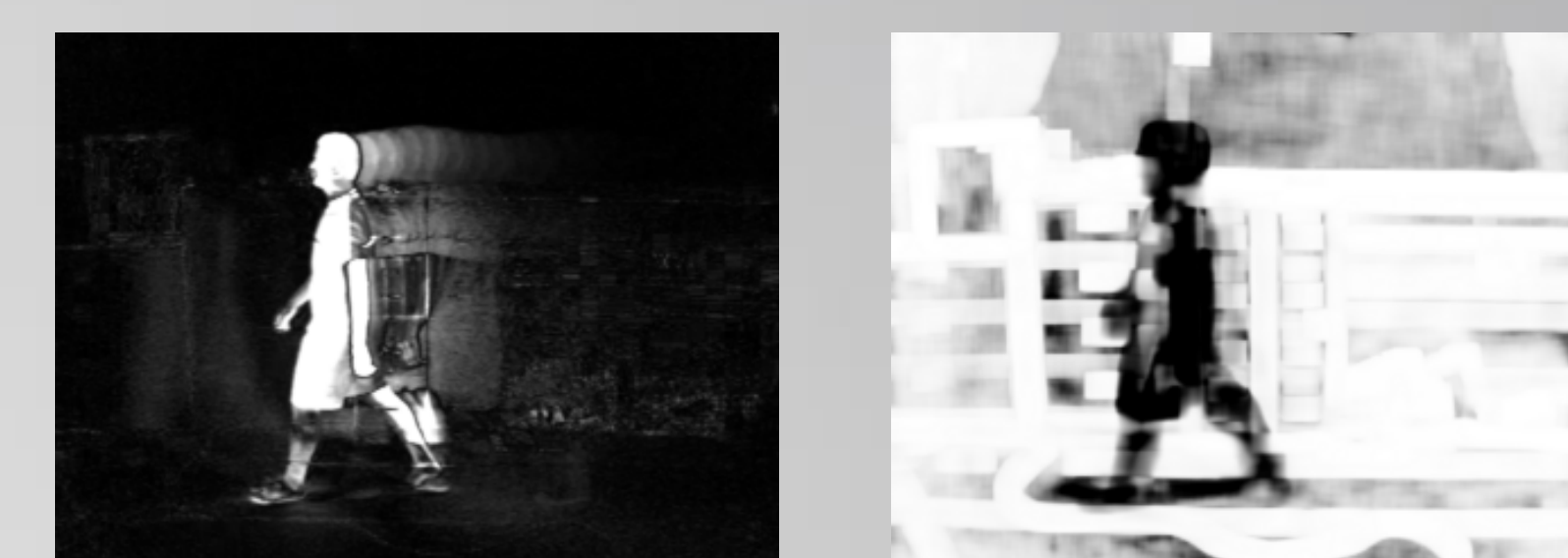
In practice: use Adaboost to build a combination of thresholded image filters.

RGB kernel proba. img.

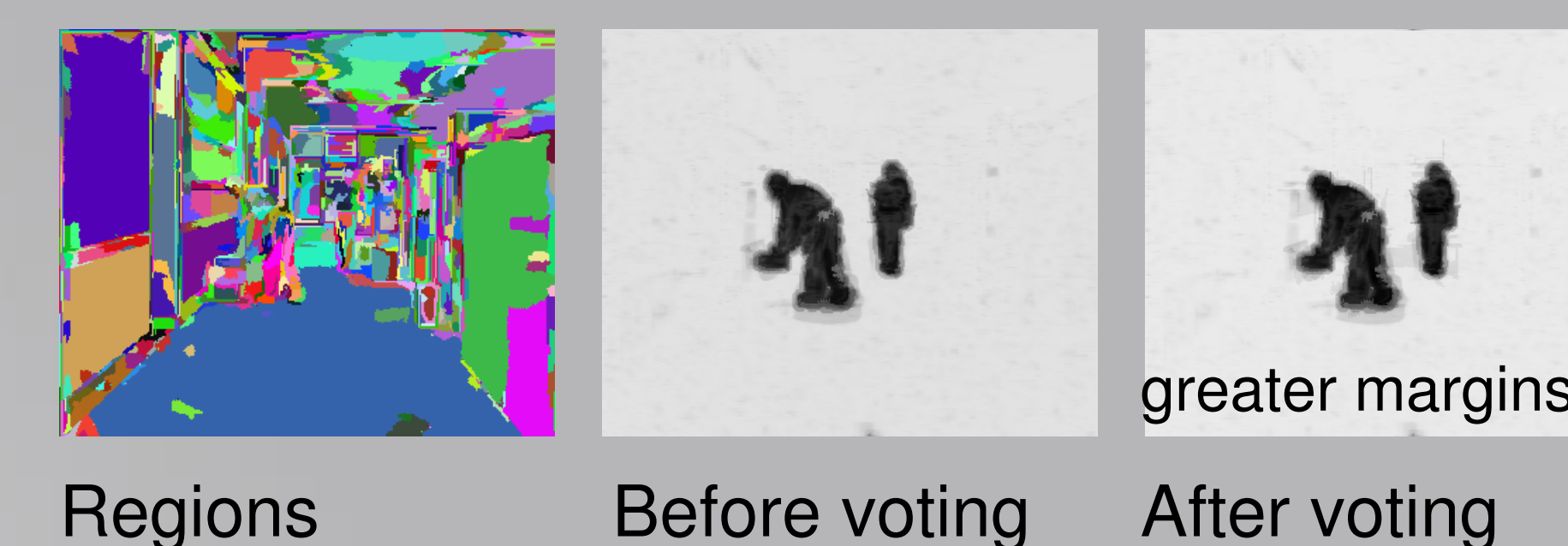


Other filters:

Spatio-temporal correlation



Post-processing w.c. morph. and region voting



Altogether: 50–100 weak classifiers.

How well does it work?

