

Preliminaries – Background Subtraction

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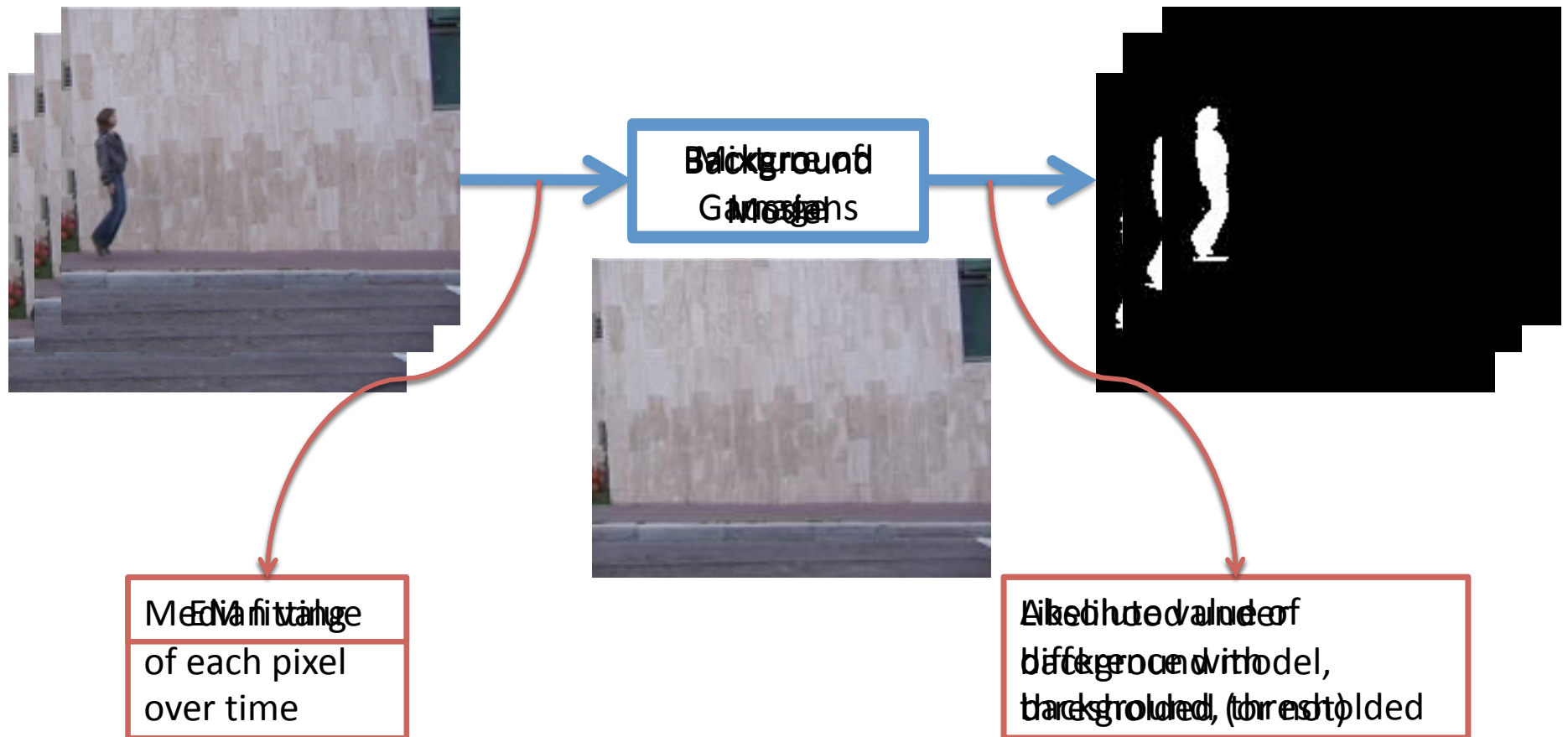
Outline

- A little bit on background subtraction

Background Subtraction



Basic Pipeline



Many Pitfalls

- Background subtraction is not perfect in practice
 - Background changes
 - Foreground looks like background
 - Objects stop moving
 - ...
- But it's a useful signal, combine into human detector

Summary

- For more information:
 - Chris Stauffer and W.E.L. Grimson. Adaptive background mixture models for real-time tracking. CVPR 1999
 - Kentaro Toyama, John Krumm, Barry Brumitt, and Brian Meyers. Wallflower: Principles and practice of background maintenance. ICCV 1999