



a web-based video surveillance monitoring platform

panoptes

- Internet video streaming
- RT protocols and WebRTC
- IP cameras



 **Opensource Agent** v3.0

DashboardActivity reportsSettingsAllien ▾

RECORDING ☐

Warning Your disk is almost full. Please remove some images..

 **Live feed** March 5, 17:39

Show detection region ☐ Heatmap ☐



 **Event detection**

Current status **Active** ☒

Active video source **IP camera**
1920 x 1080 px

 **Storage**

Local storage

Used: **64%** (42 GB) 64 GB total

User settings

Logout

 **Latest Activity**

View all



Hour	Activity Count
19	1
20	1
21	1
22	0
23	0
0	0
1	0
2	0
3	0
4	0
5	0
6	1
7	1
8	0
9	0
10	0
11	0
12	0
13	0
14	1
15	2
16	4
17	3
18	2
19	2

March 5

3 events

 **17.34 – 17.36** (1:57)
Pedestrian

 **15.01 – 15.01** (0:10)
Add tags or notes..

 **14.45 – 14.47** (2:12)
Add tags or notes..

March 4

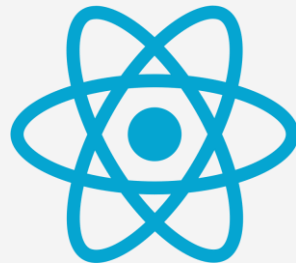
2 events

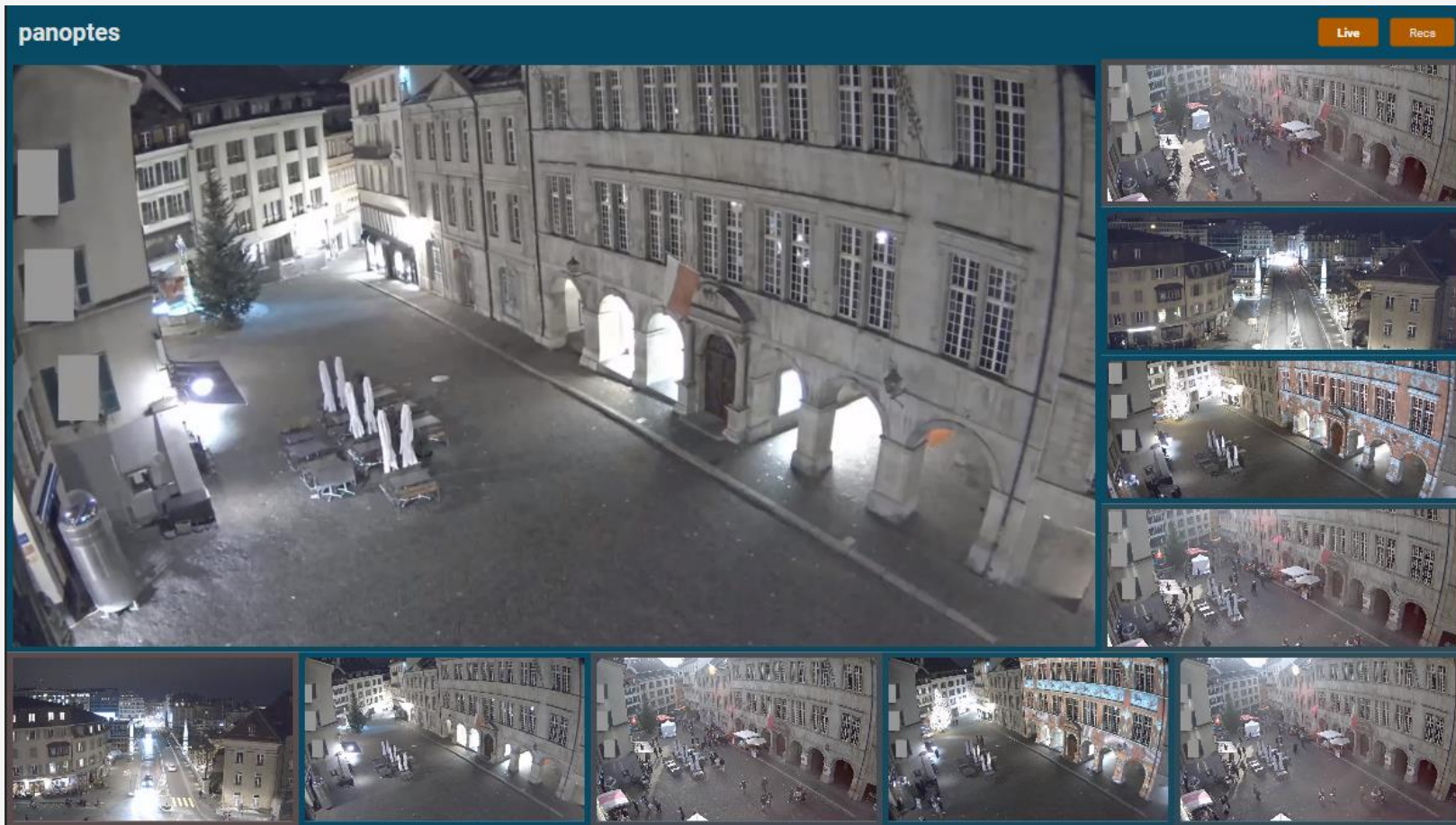
 **17.32 – 17.35** (3:40)
A bird stole my lunch!



Scope of the project

- Multiple sources
- Basic motion detection
- User Interface

HTML**JS****CSS**



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Live

Reza



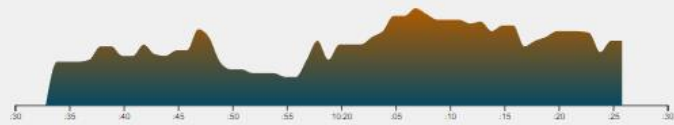
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Live

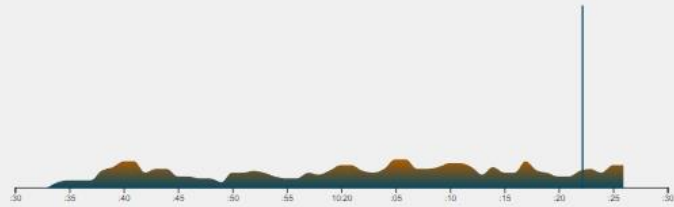
Recs



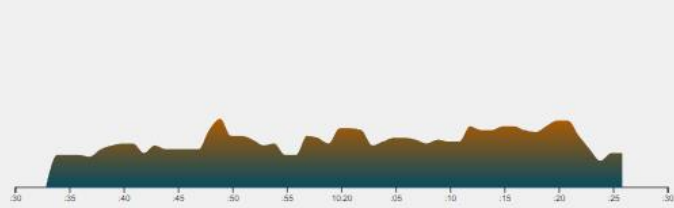
Camera 8



Camera 9

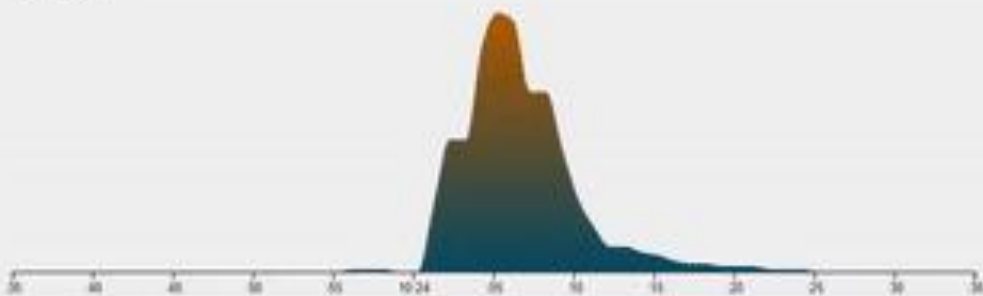


Camera 10

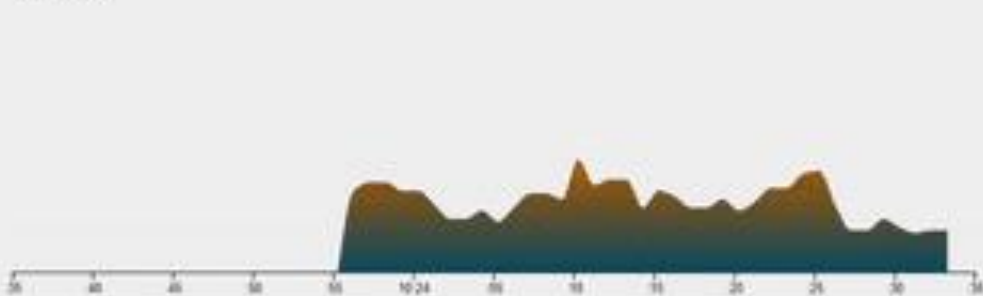




Camera 1



Camera 2



Camera 3

Motion Detection

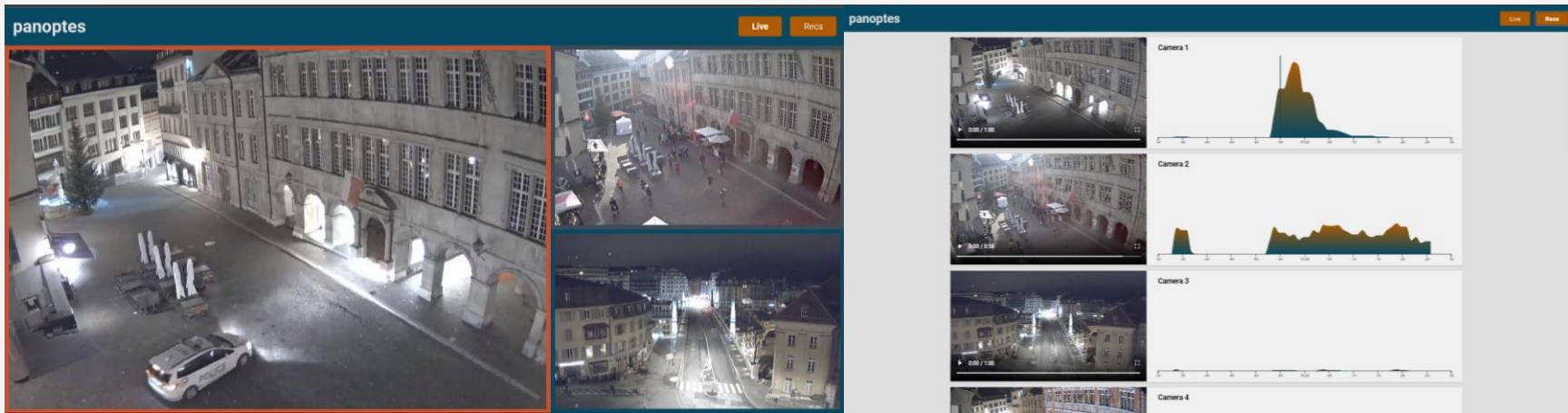
- *<video> vs <canvas>*
- Screenshots from videos
- From RGB to grayscale
- “difference” composite mode between the two captured frames



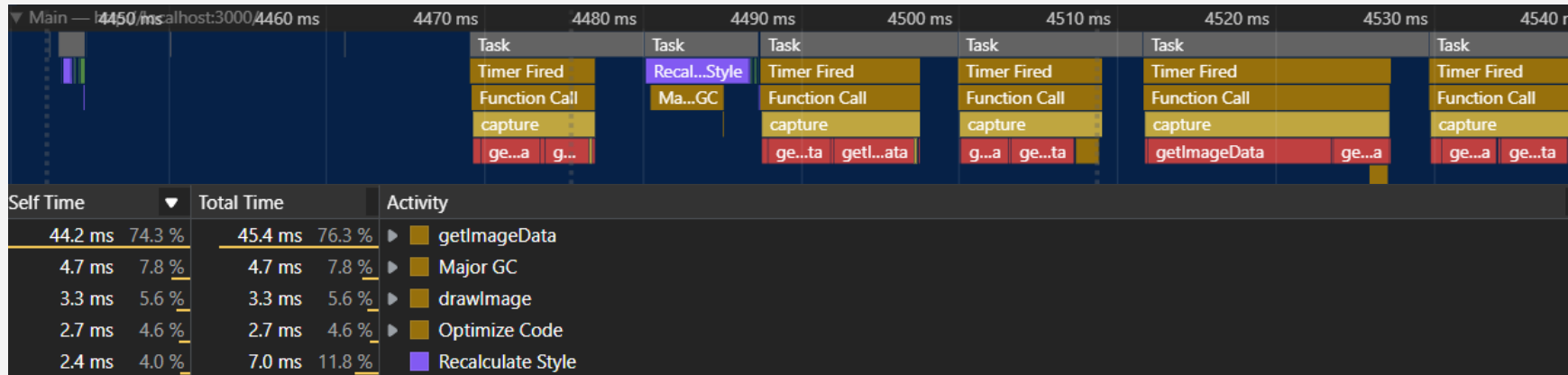
Motion Detection

Pixel threshold to compute the motion scores:

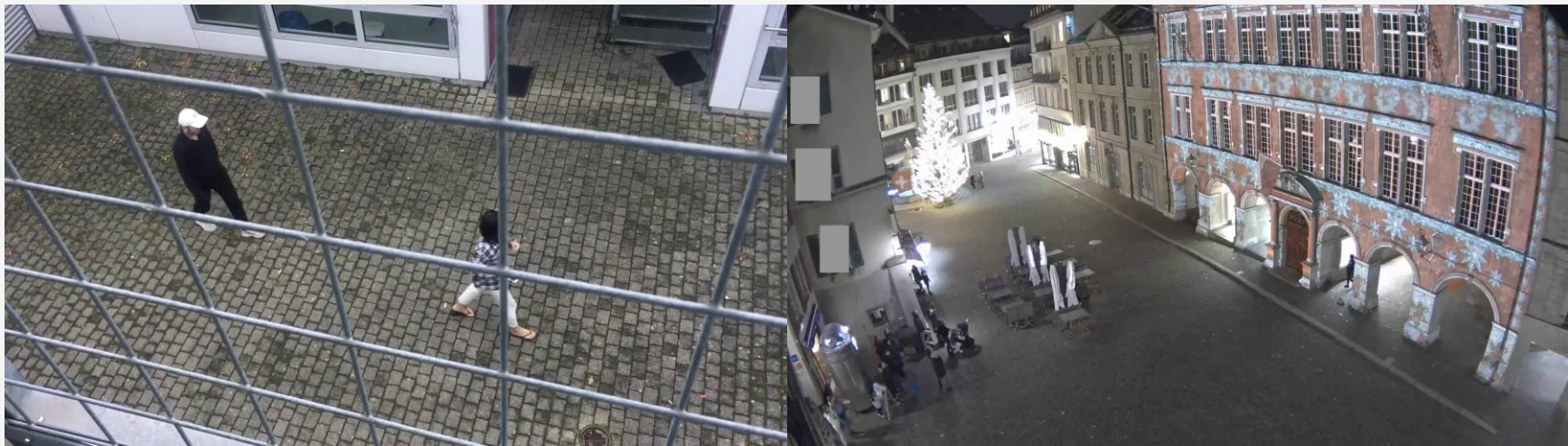
- Interpolation to visualize the right colour
- Storing for real-time and late interaction



- Video loading and downloading
- Scripting



- Best field of application: surveillance system against intrusions



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