

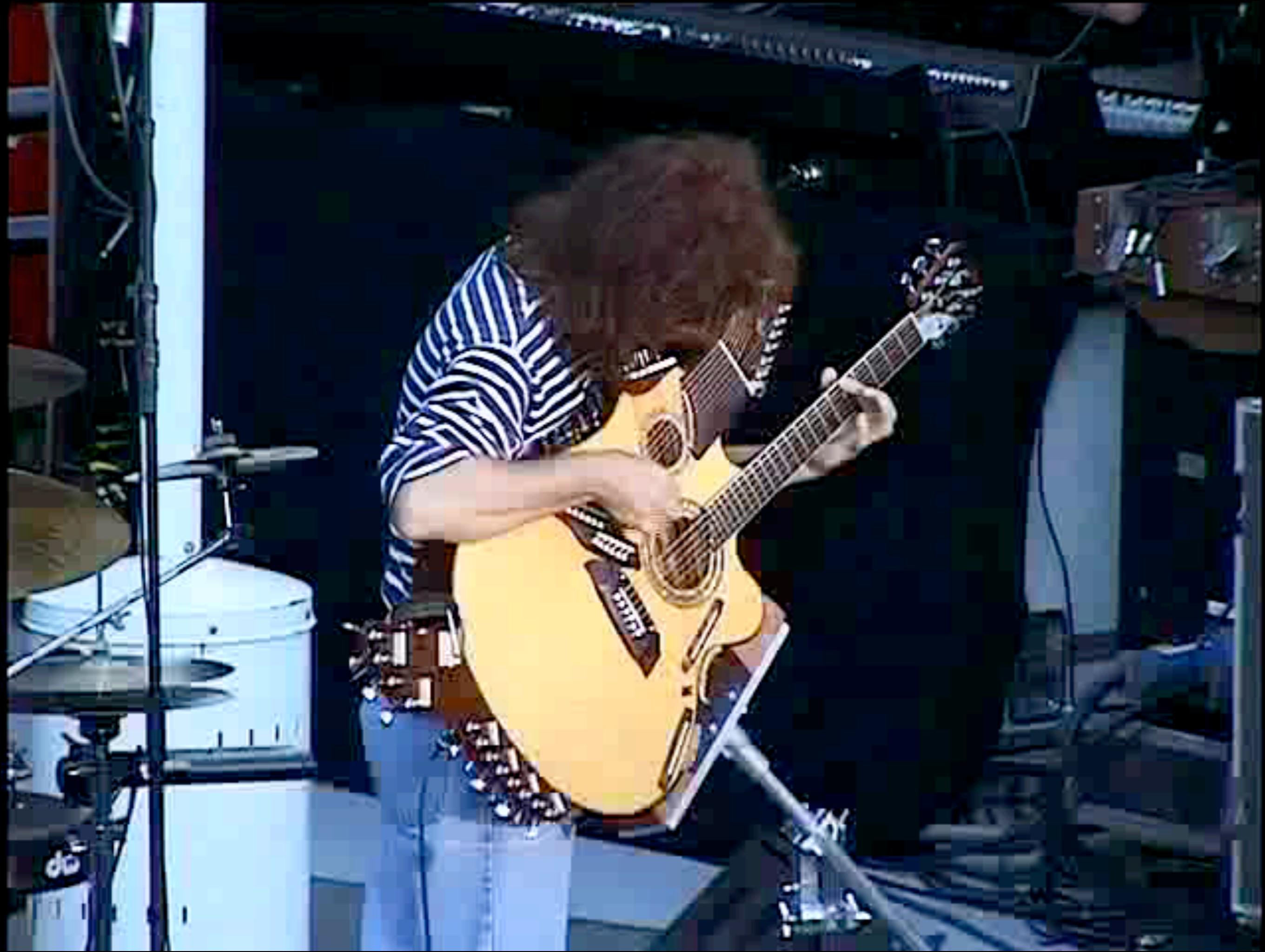
Øvelse I: Kvalitativ videoanalyse

Alexander Refsum Jensenius
MUS2006 - v2013

Smakebit

Lytt

?



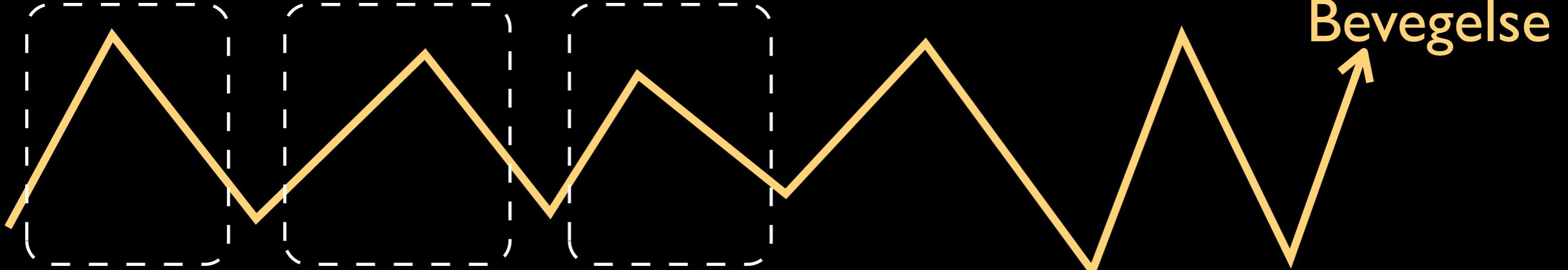
Lytt

Bevegelsessporing

kvalitativ

kvantitativ

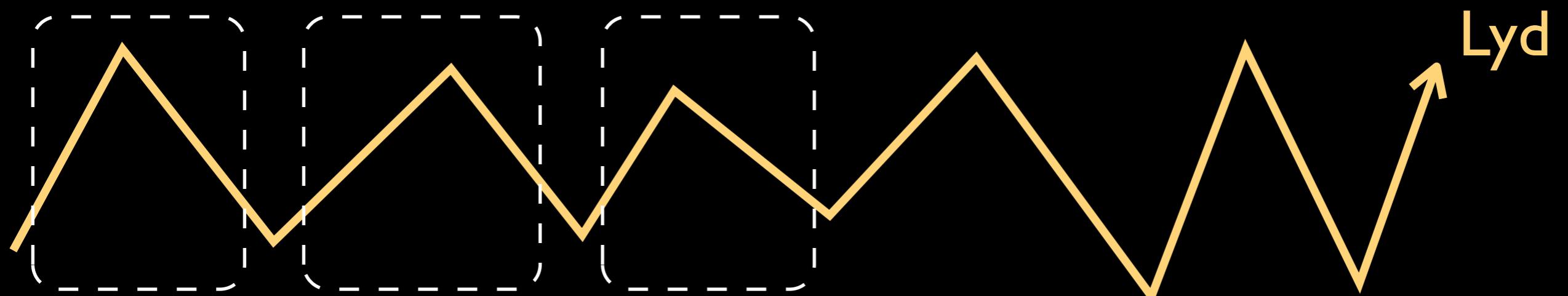
Handling



Bevegelse



Lydobjekt

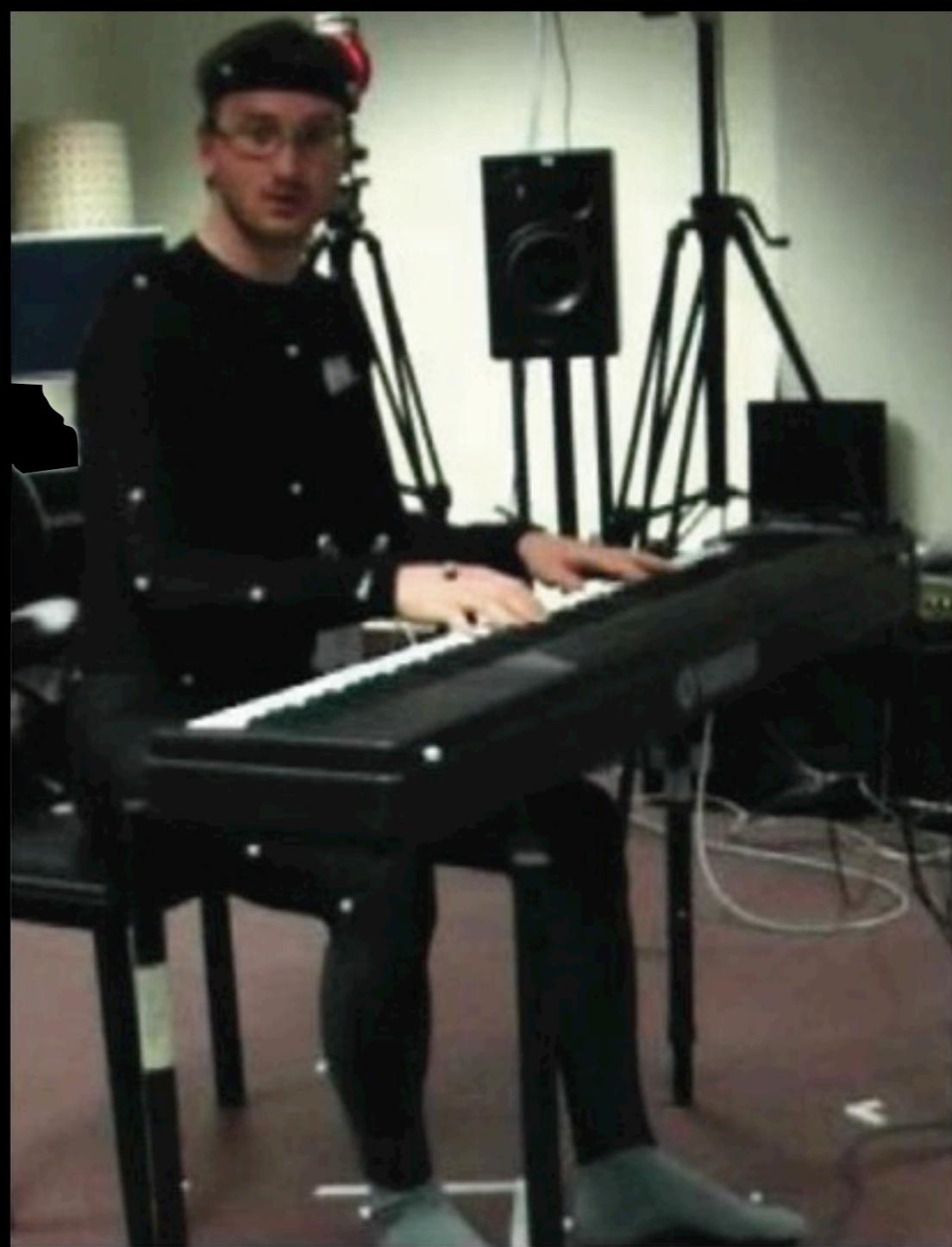
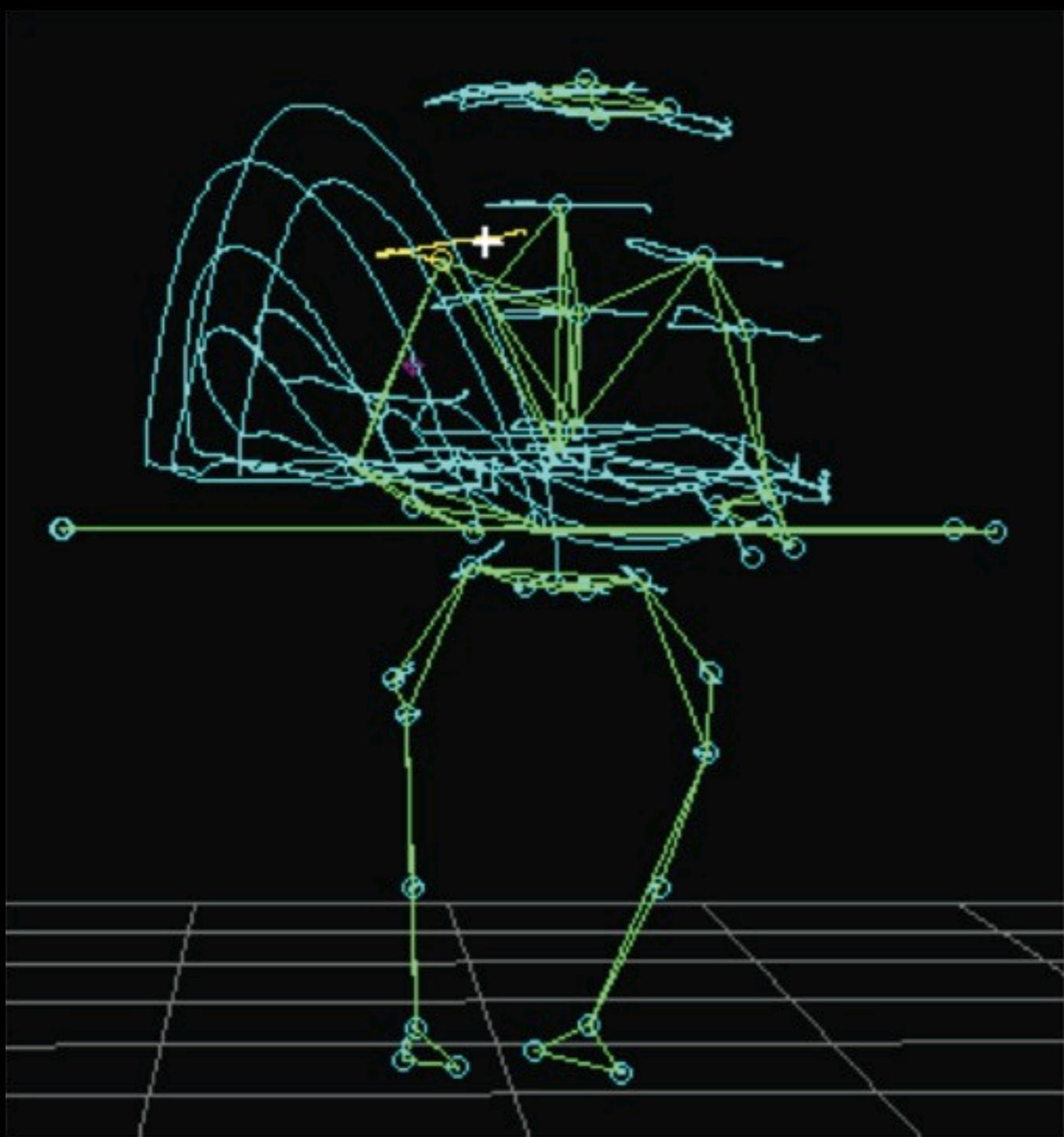


Lyd

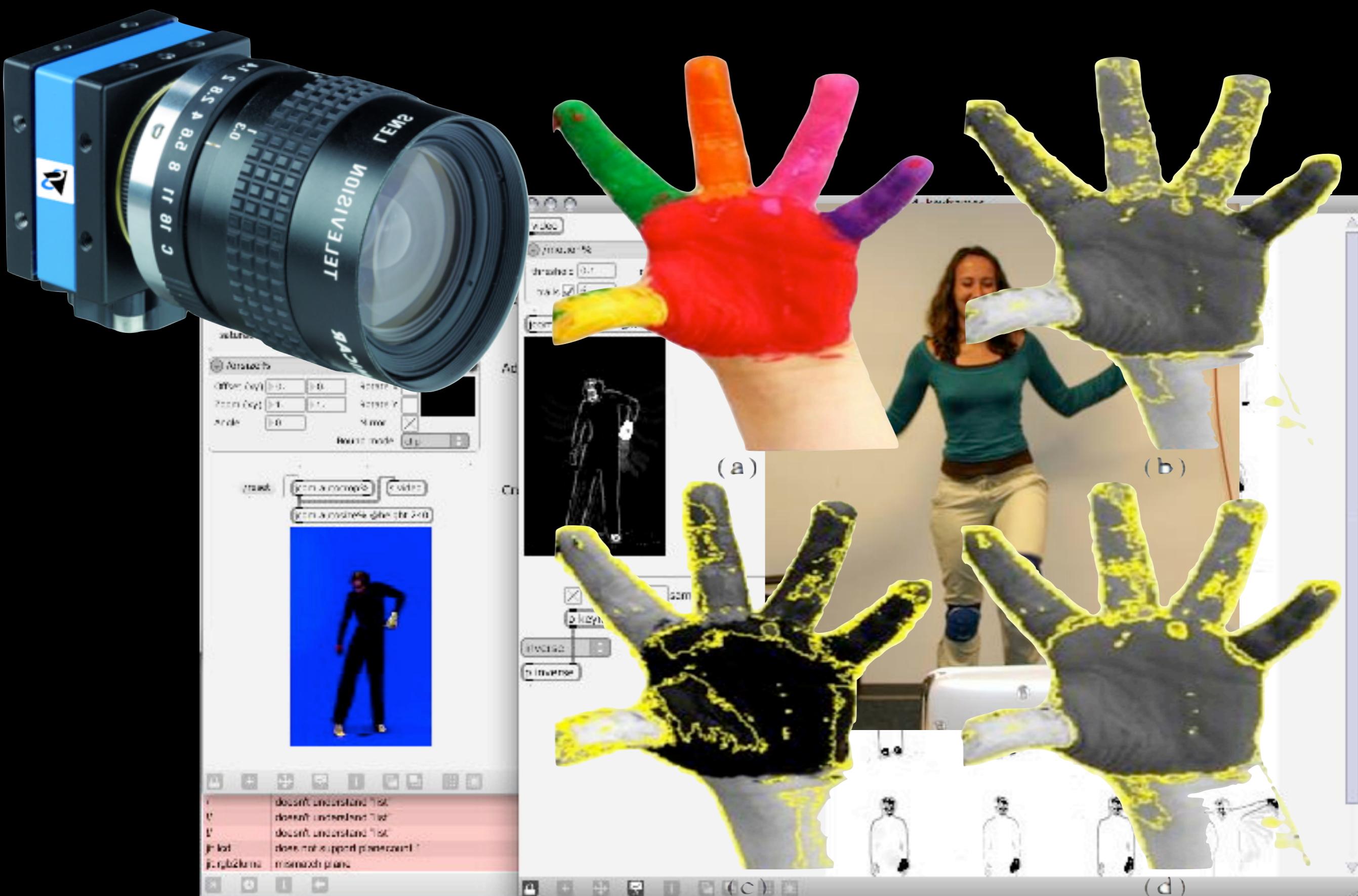
Bevegelsessporing

hvorfor?

hvordan?



optical infrared marker-based motion capture



optical

marker-based motion capture

KINECT™
for  XBOX 360.



optical infrared

motion capture



inertial

sensor-based motion capture





mechanical

sensor-based motion capture



electromagnetic sensor-based motion capture



physiological sensor-based motion capture



Optical (visual)



Optical (infrared)



Inertial



Electromagnetic



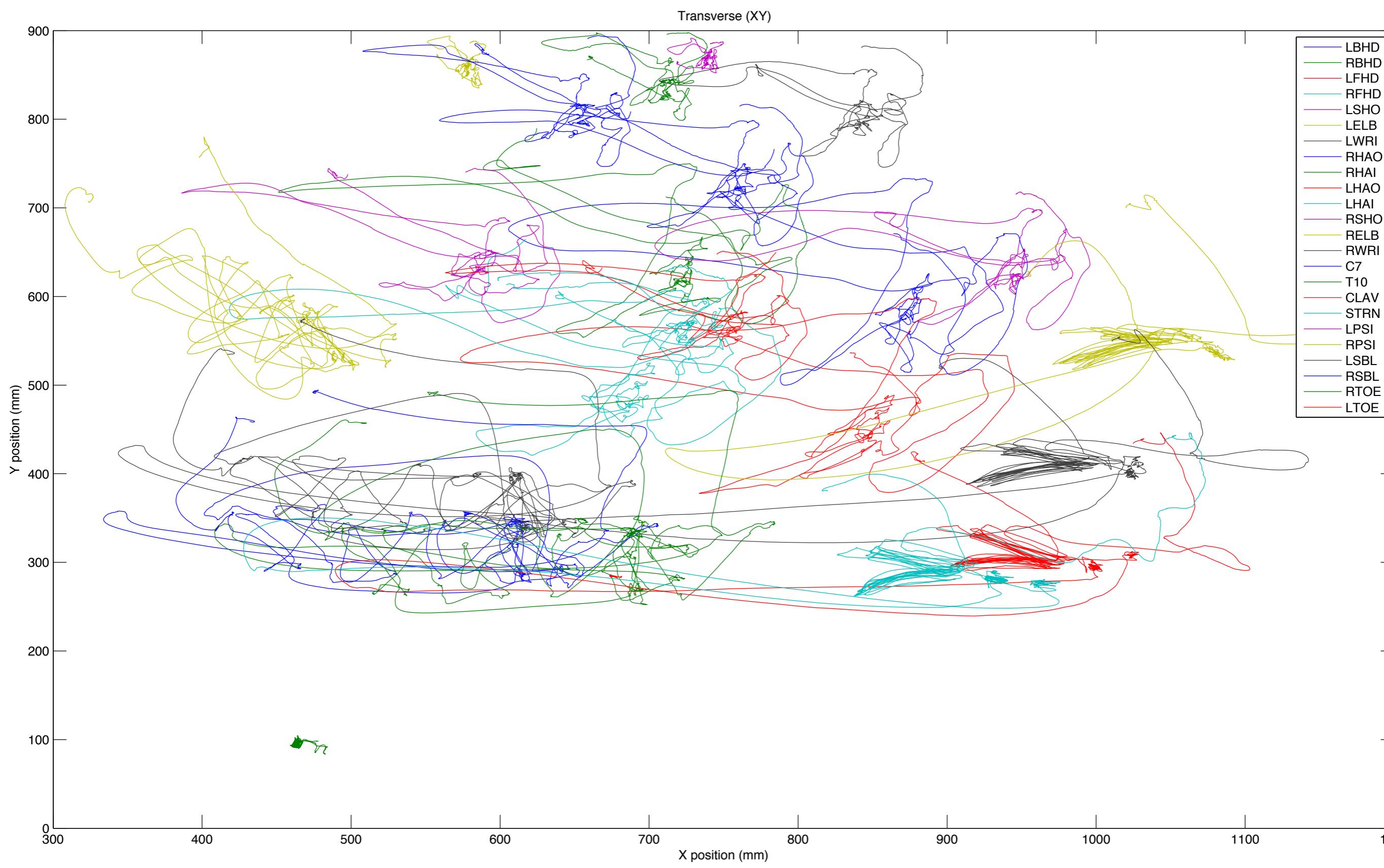
Mechanical motion capture

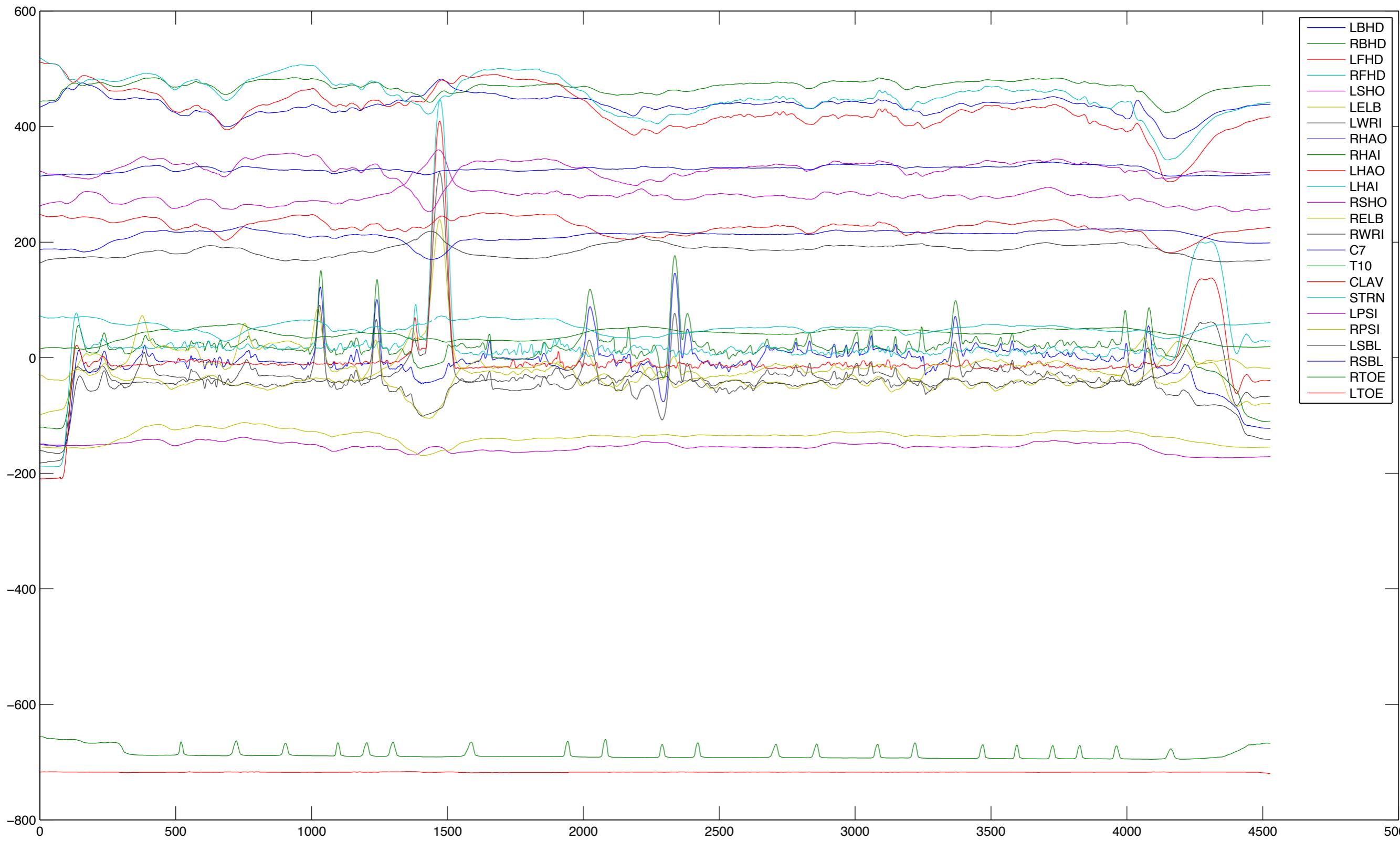


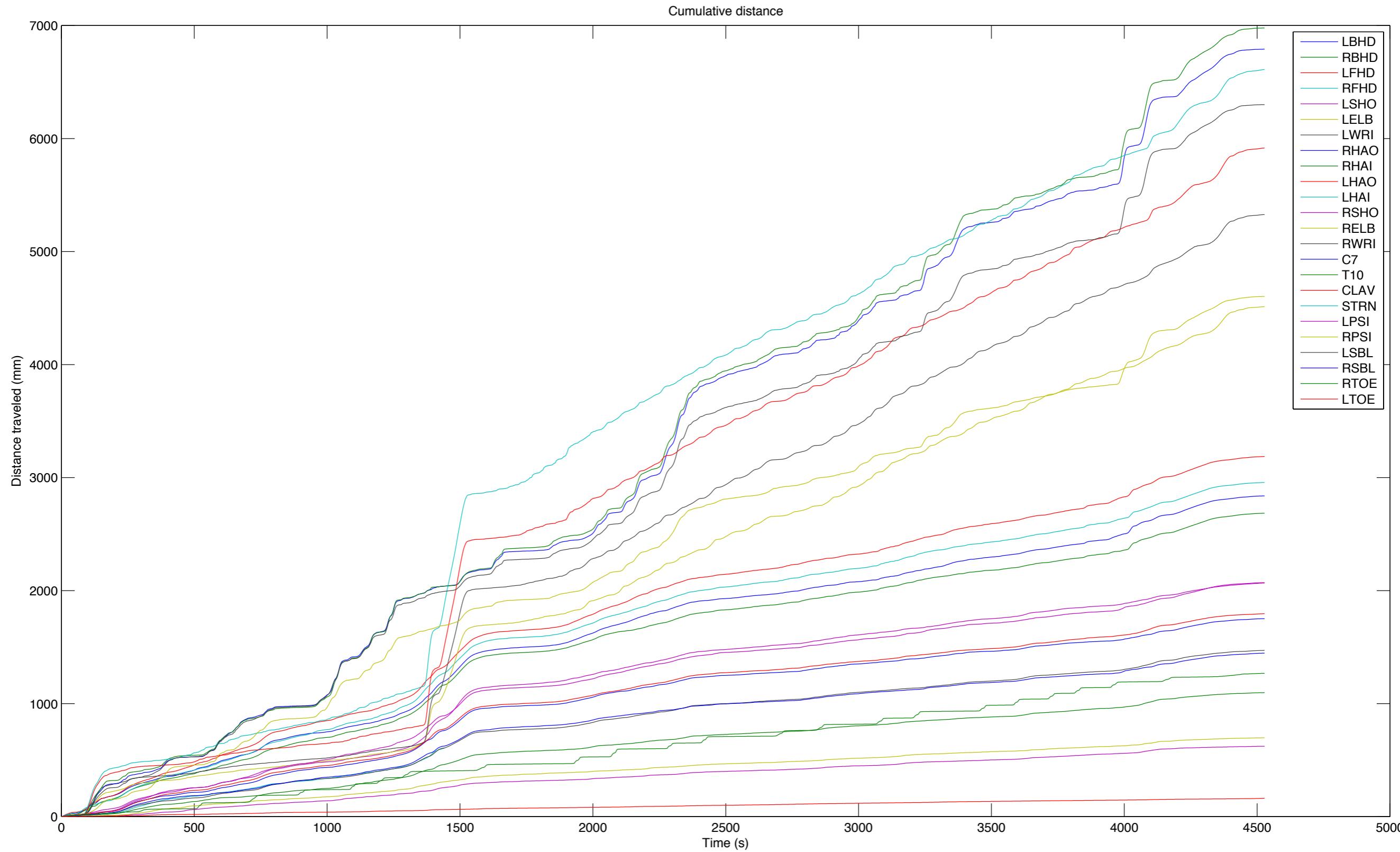
Physiological

	Inertial/ magnetic	Mechanical	Electro- magnetic	Optical (visual)	Optic (infrared)	Physiological
+	- flexible - small	- flexible - small	- resolution - identification - absolute	- flexible - no cables - no markers - accessible	- speed - resolution - # markers	- indirect motion sensing
-	- relative	- relative	- cable - short range	- 2D - speed - resolution - identification	- markers - calibration - identification	- indirect motion sensing



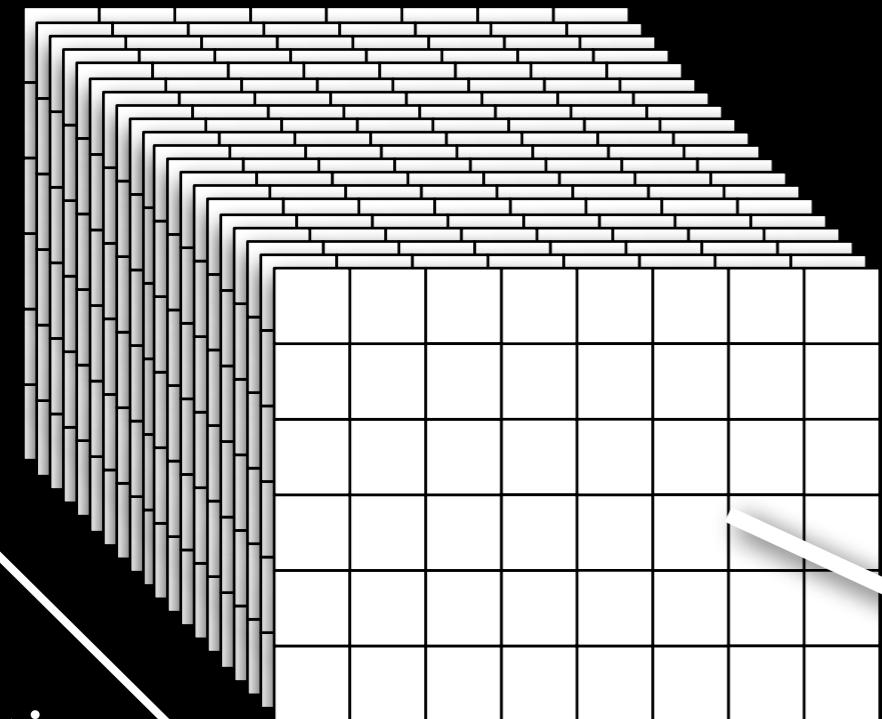






Video - representasjon & visualisering

matrix

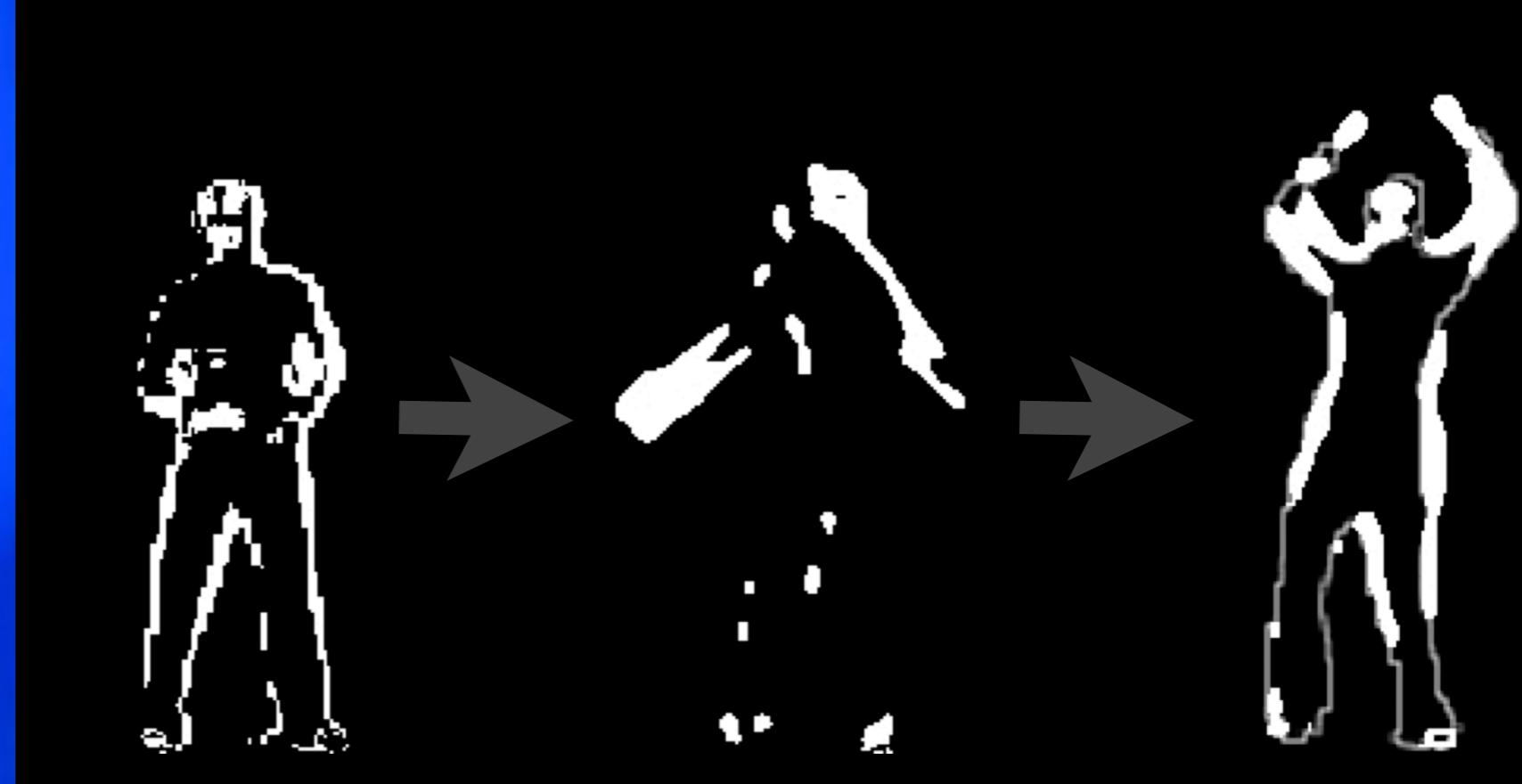


time

~25 fps

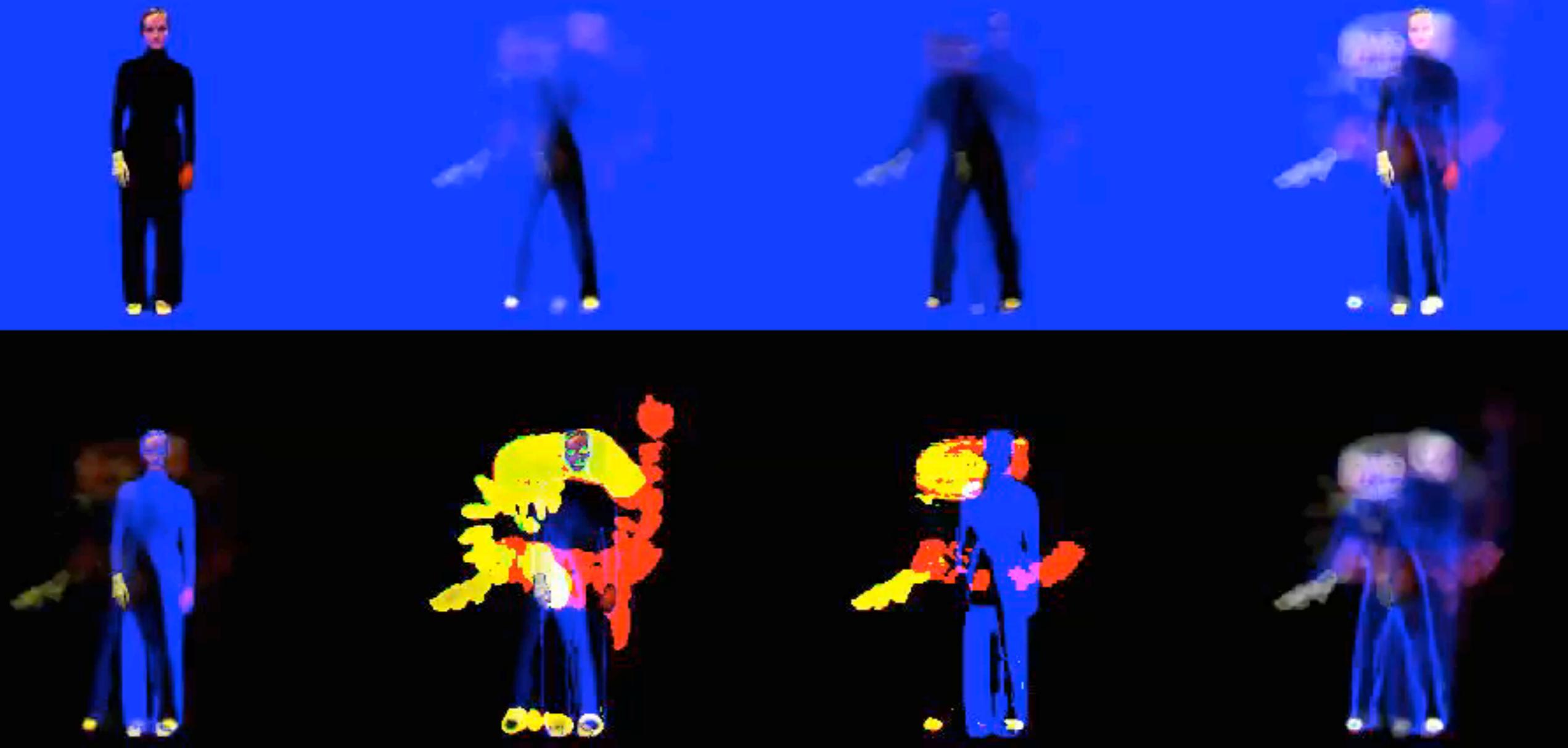
5	24	100	Blue	23	64	73
65	47	34	Green	89	134	32
23	65	125	Red	187	34	76
36	57	145	Alpha	187	165	196
15	98	68	45	33	154	123
78	127	234	254	213	201	176
167	187	198	143	254	241	243
56	123	201	212	176	132	154
34	45	63	63	78	67	98
						143

plane



Bevegelsesbilde

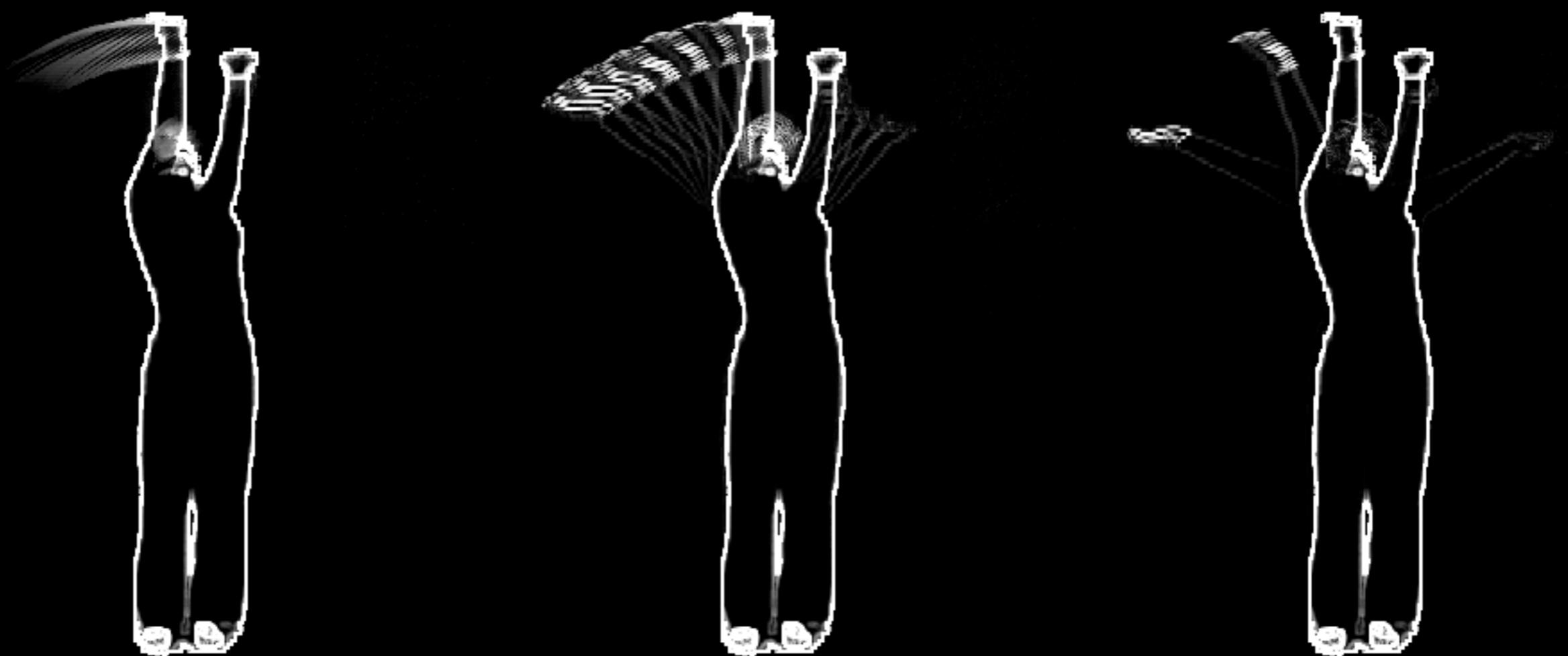




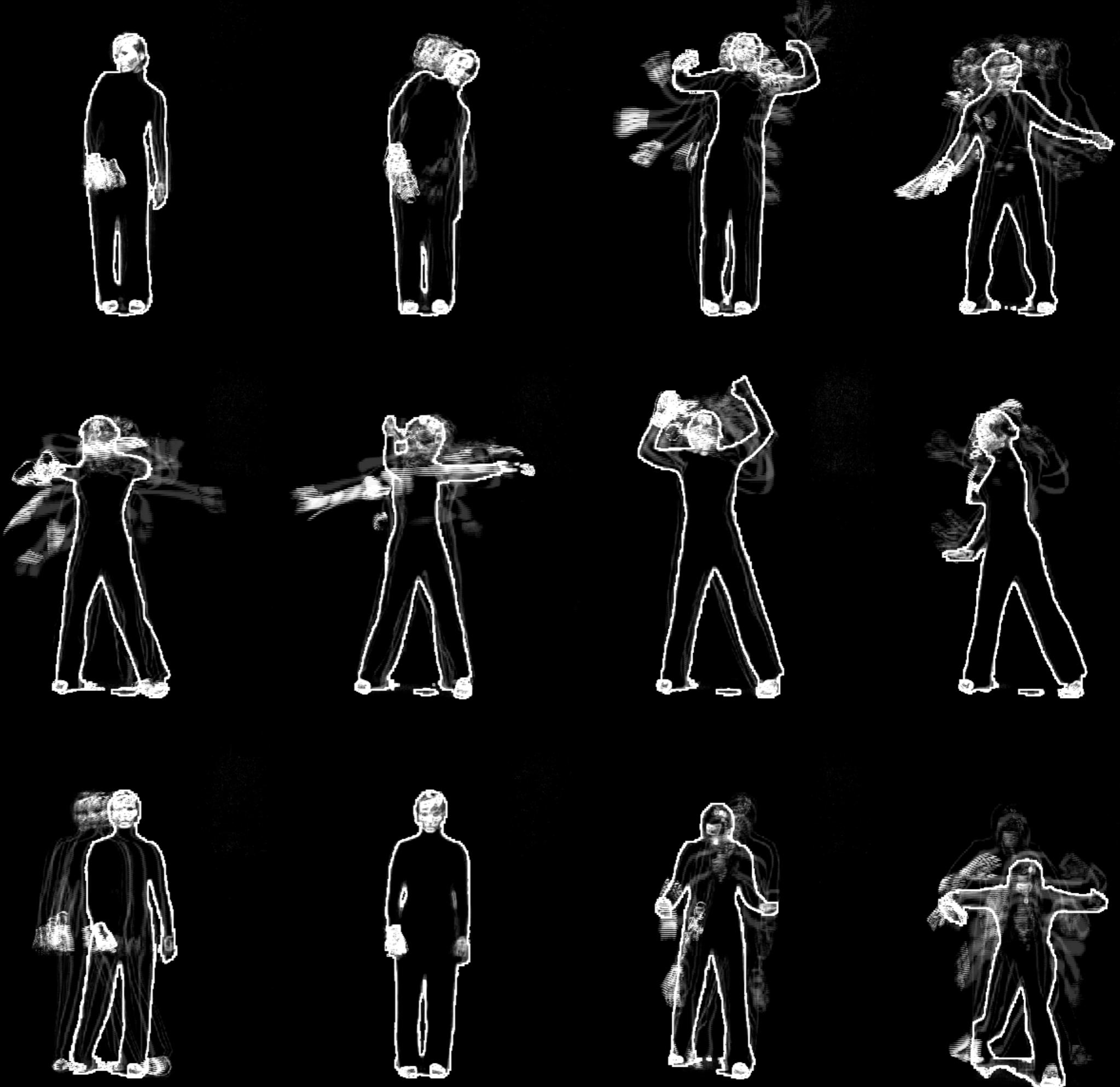
Bevegelseshistoriebilde



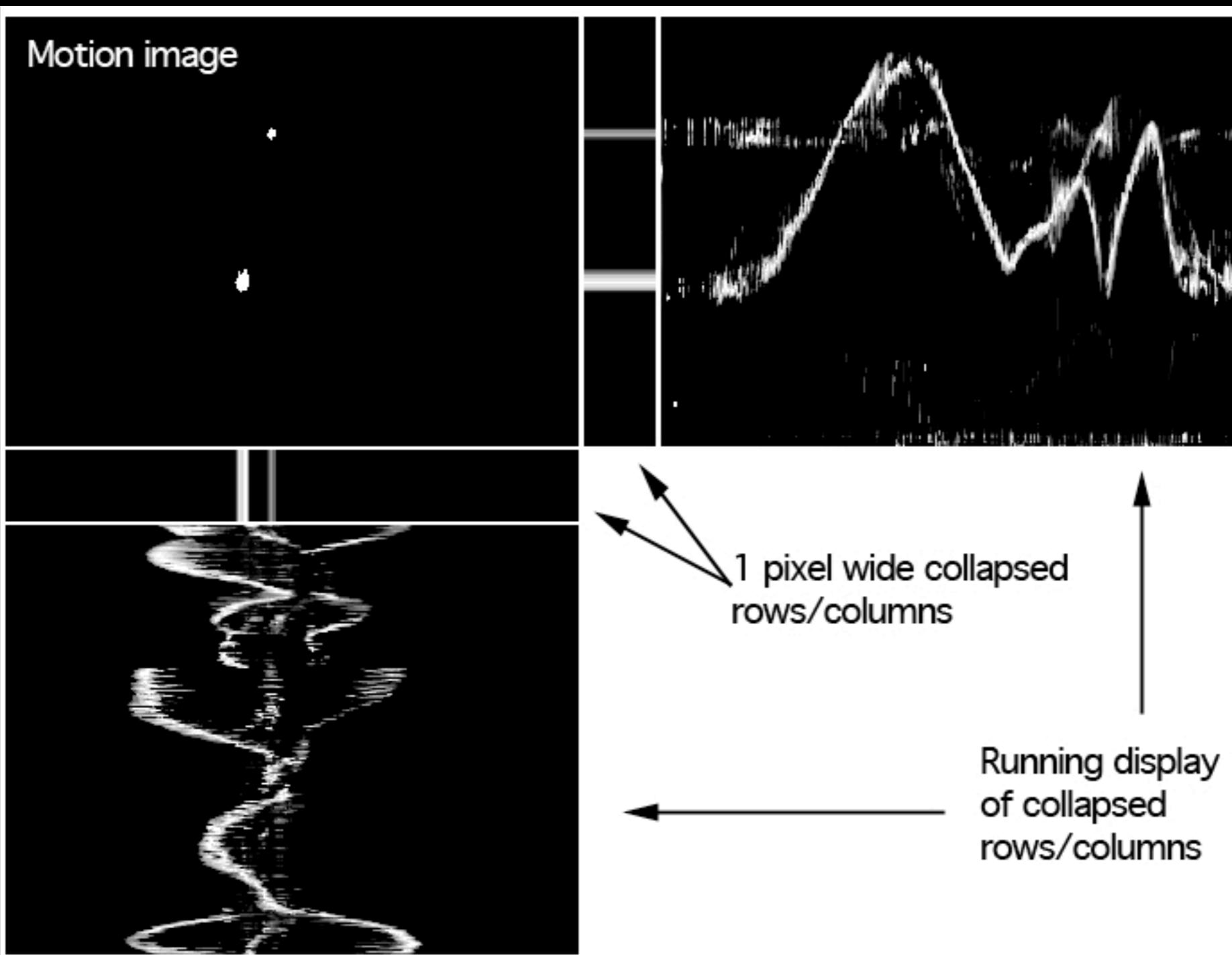
Bevegelseshistoriebilde



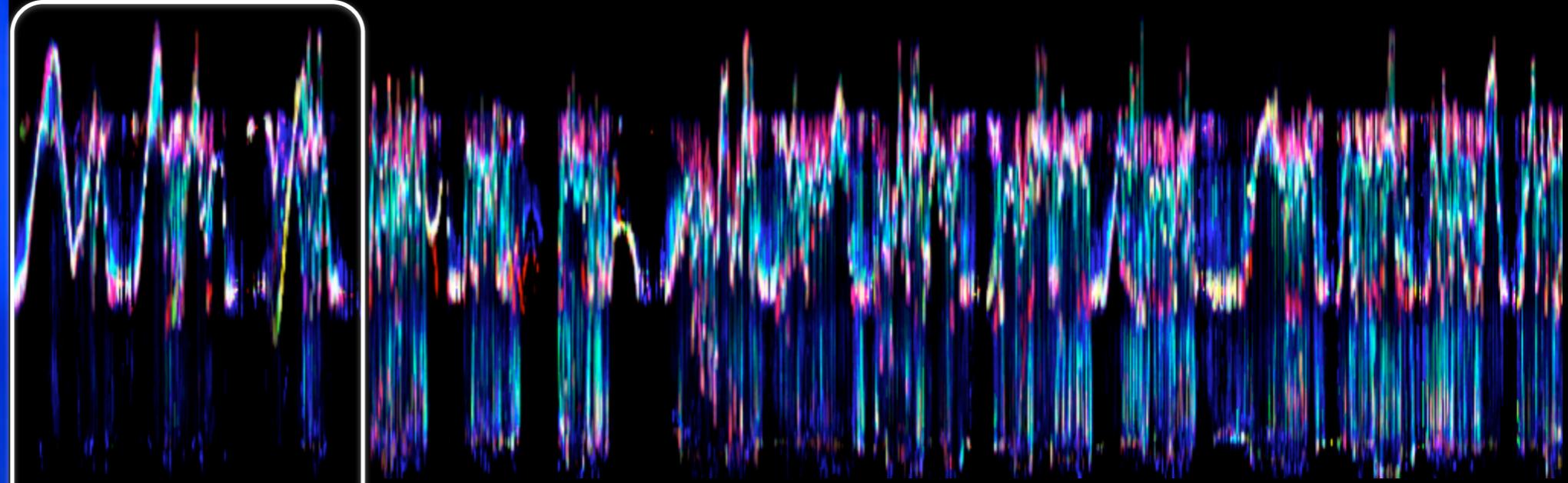
Tidsserie- bilde





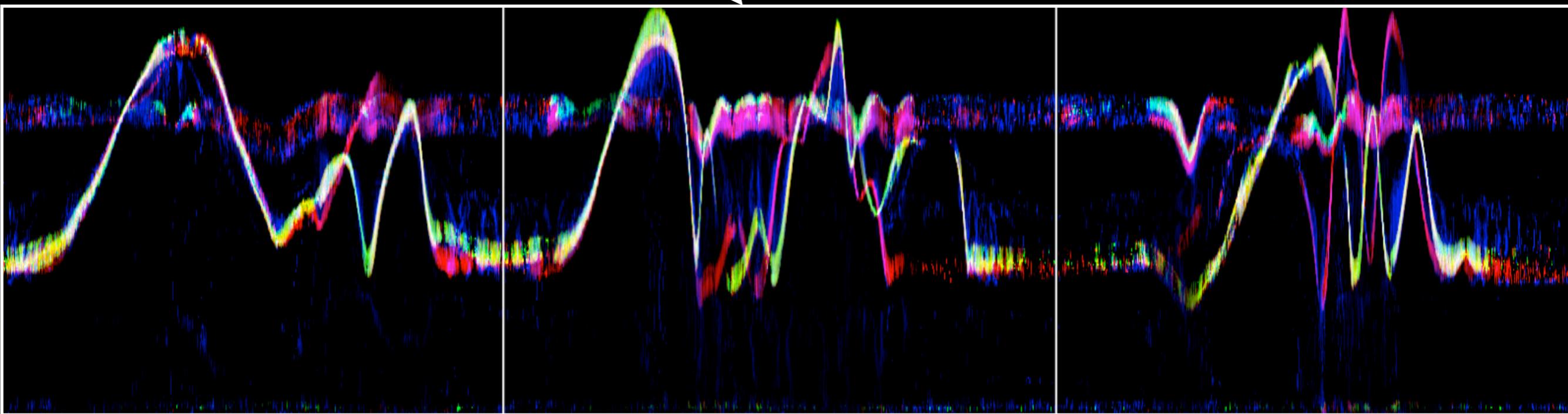


Bevegelseskurve

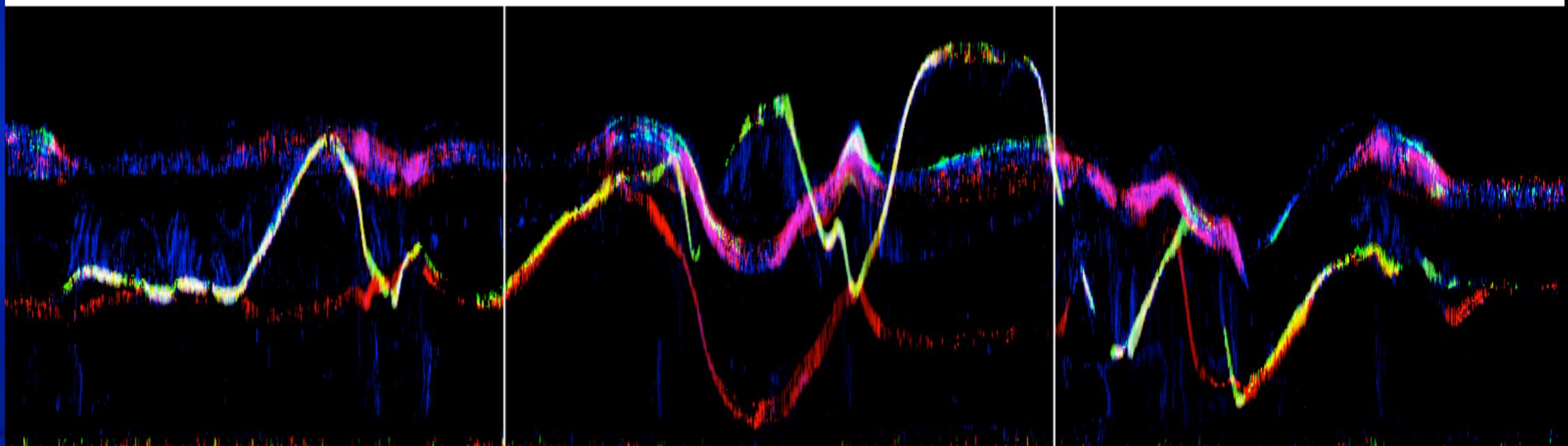
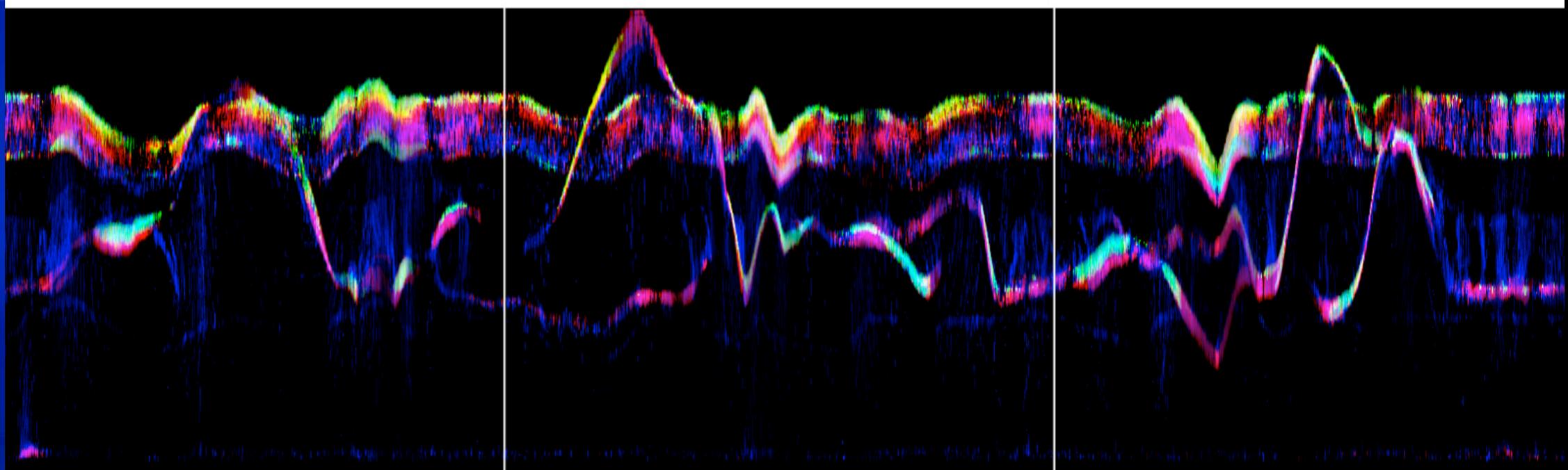
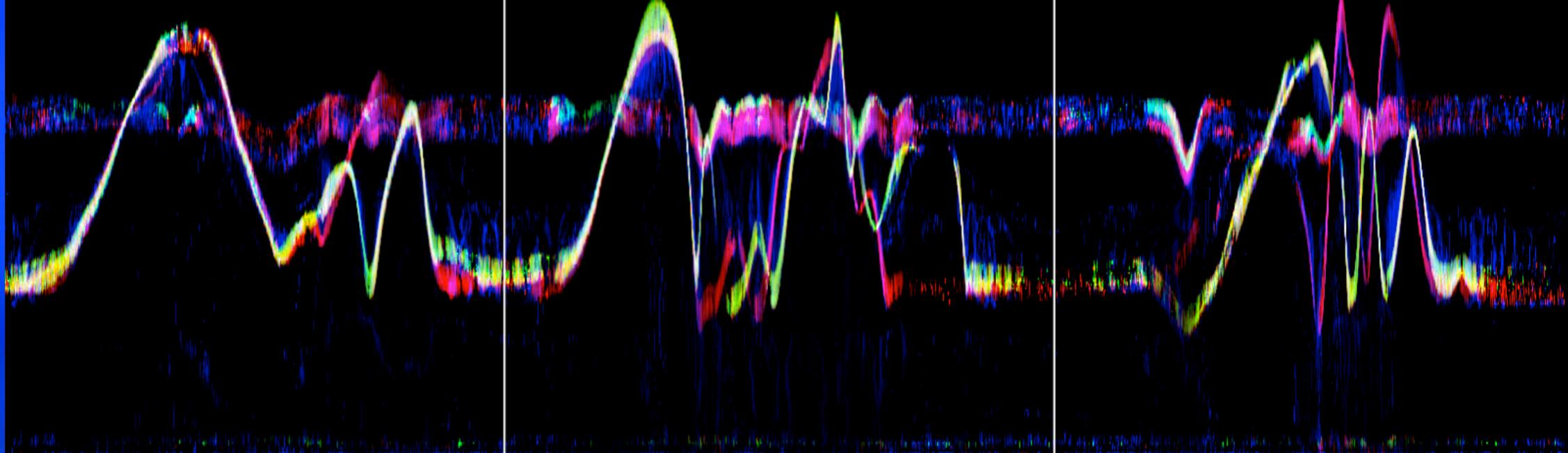


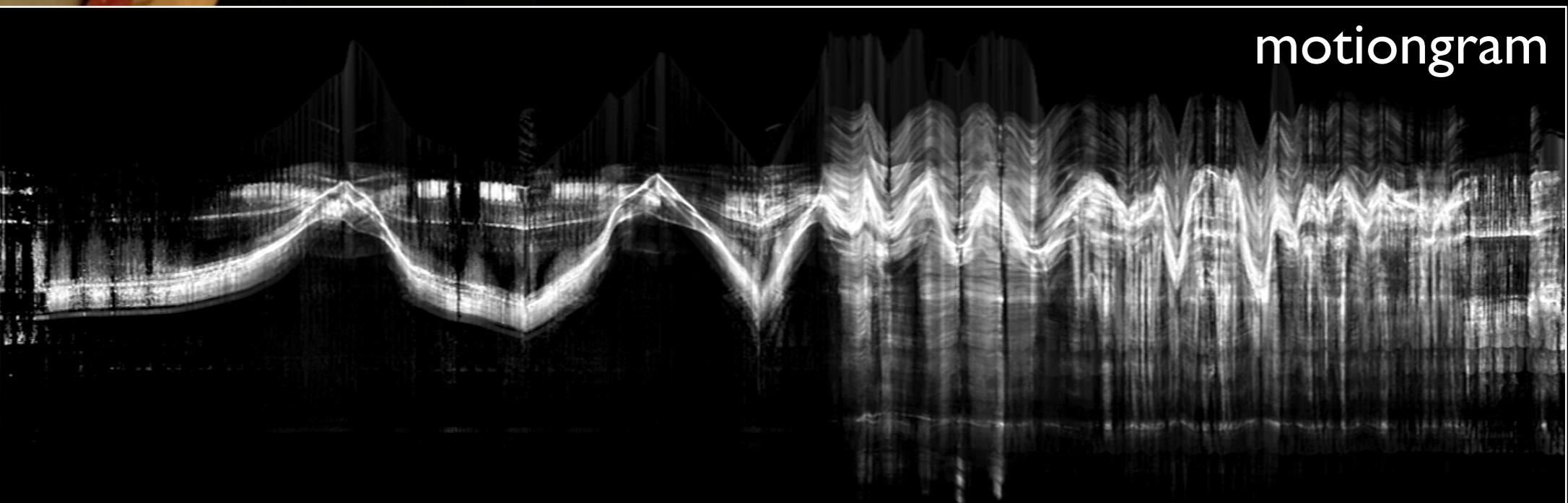
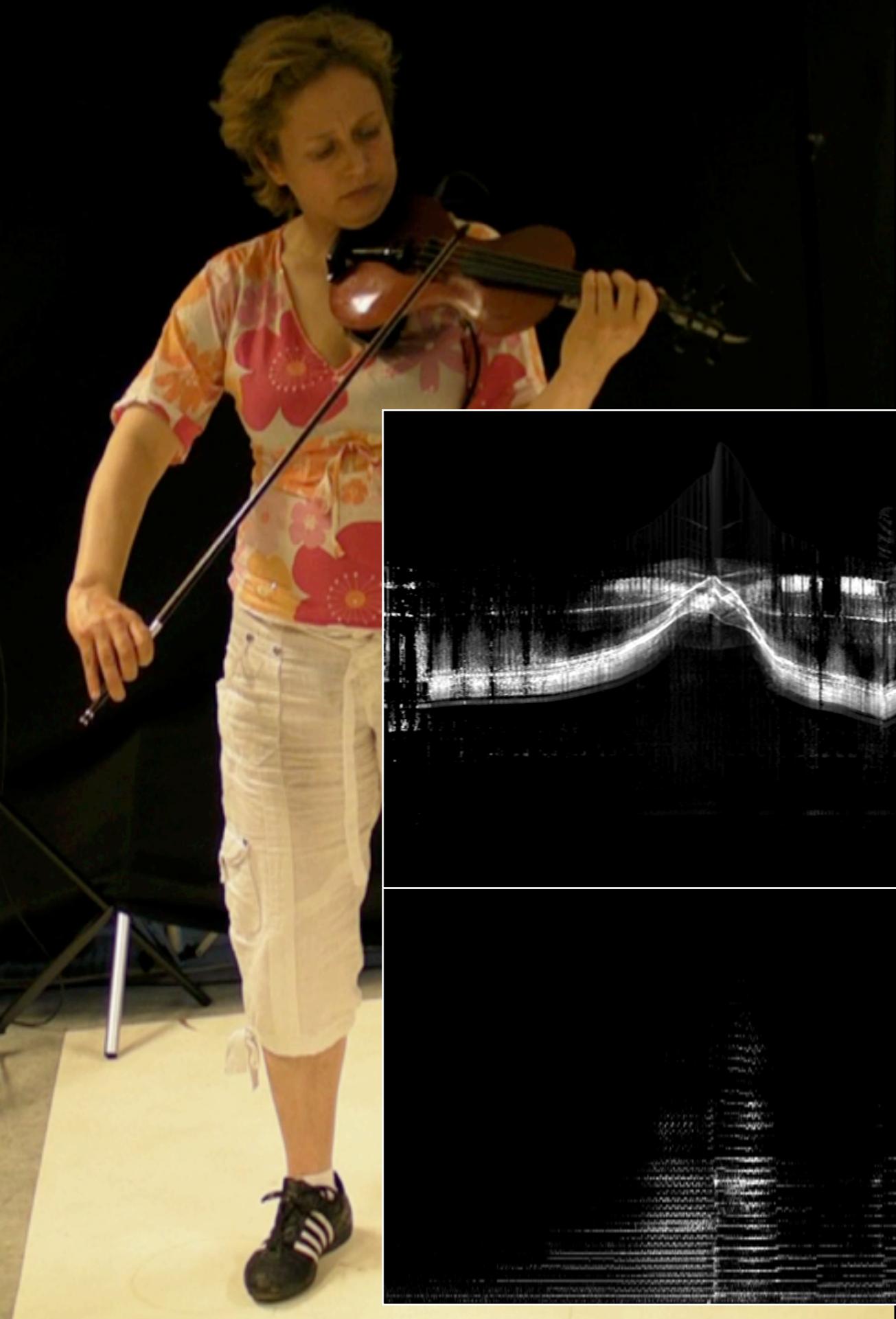
5 min

Bevegelseskurve

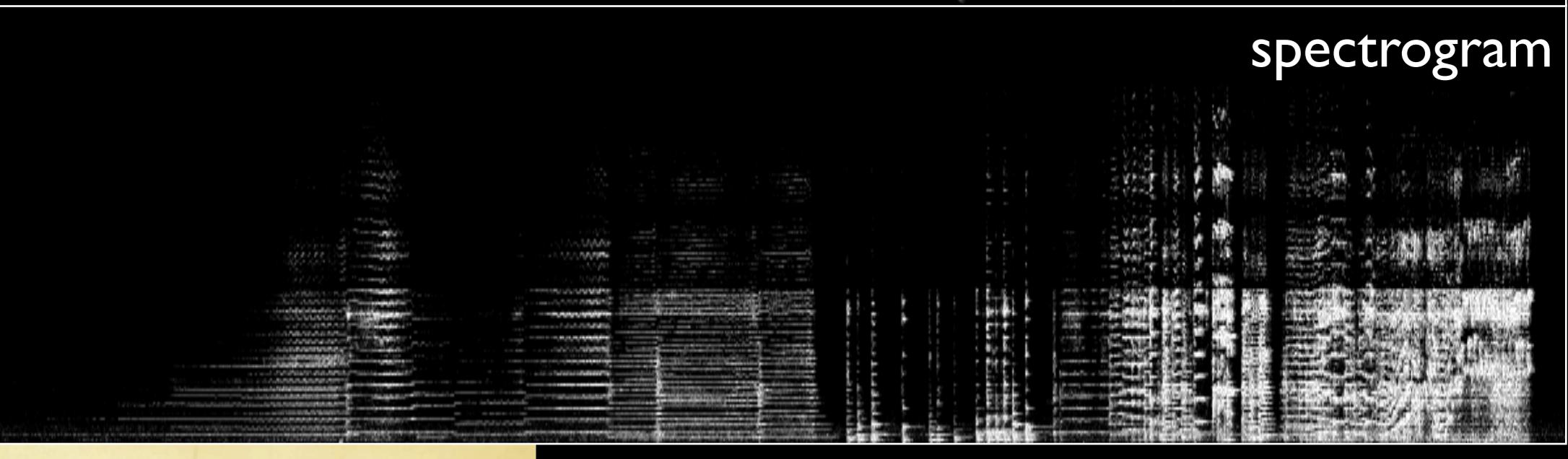


40 sek

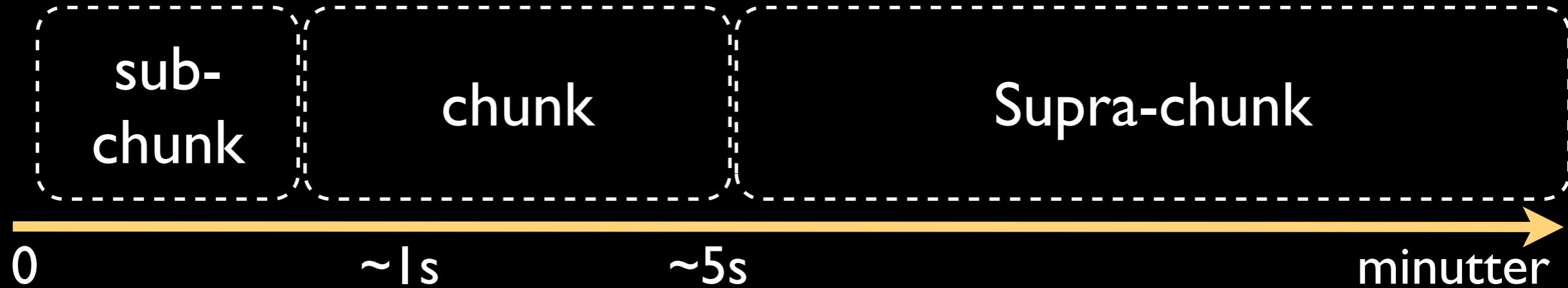




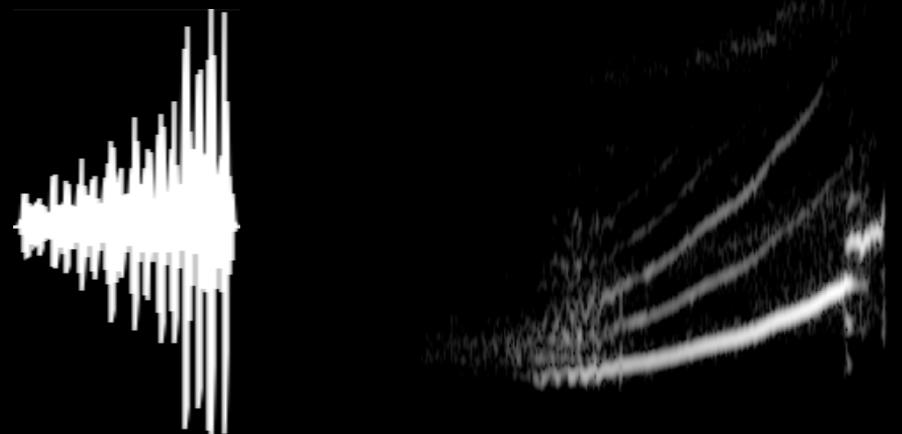
motiongram



spectrogram



Audio



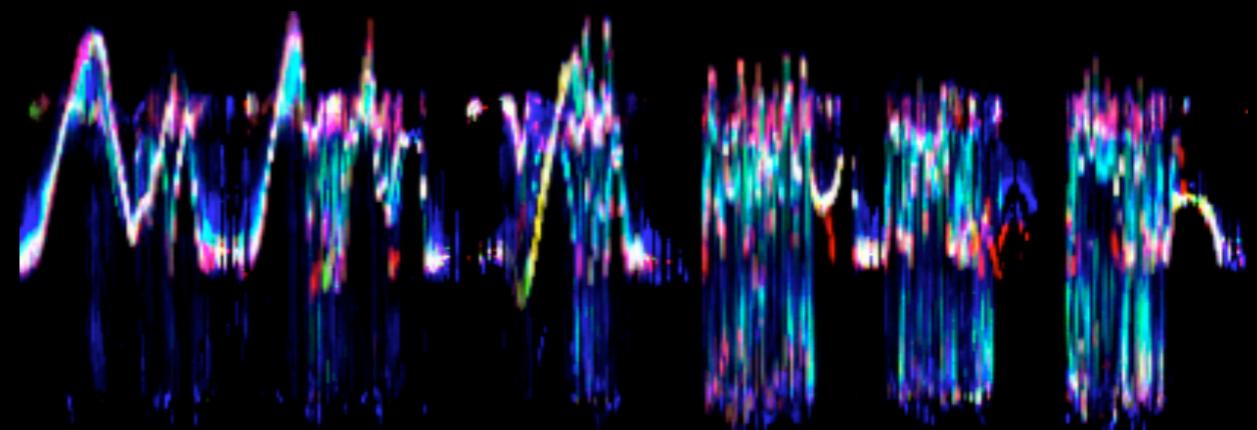
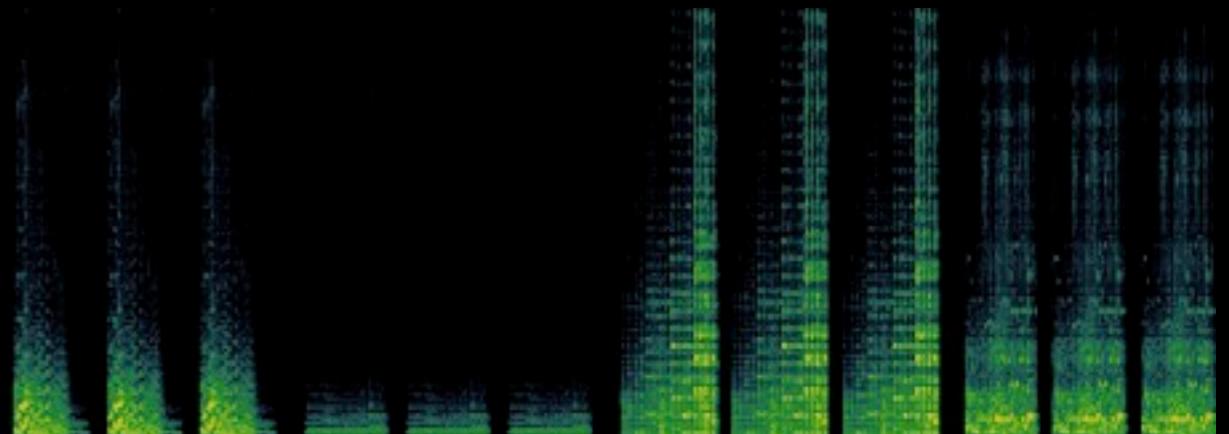
Video



Bevegelses-
bilde



Bevegelses-
historiebilde



Bevegelseskurve

Analyse

Kvalitativ - Kvantitativ

- 1.Generell
- 2.Deskriptiv
- 3.Funksjonell
- 4.Bevegelse-lyd

Generell

Beskriv de globale egenskapene ved studieobjektet

Hva studerer du?

Hvem spiller?

Hvor og når spiller de?

Er det en konsert, video, film?

Deskriptiv

Trekk ut bilder fra videostrømmen og beskriv hva du ser

Hvordan er kameraplasseringen? Nær, medium, fjern

Hjem er i bildet? Enkeltmusiker, band, etc.

Hvor i bildet skjer det noe interessant? høyre, venstre...

Hva er interessant?

Funksjonell

Forklar hvilken funksjon hendelsene du har valgt ut har

Lydproduserende
Støttebevegelser
Kommunikative

Lydproduserende

modifikasjon

kommunikative

utøver-utøver

støtte:



Lydakkompagnerende
rytmiske, miming, emotive, ...

utøver-publikum

Bevegelse-lyd

Hvilken relasjon er det mellom bevegelsene og lyden?

Horisontalt (melodi, rytme)

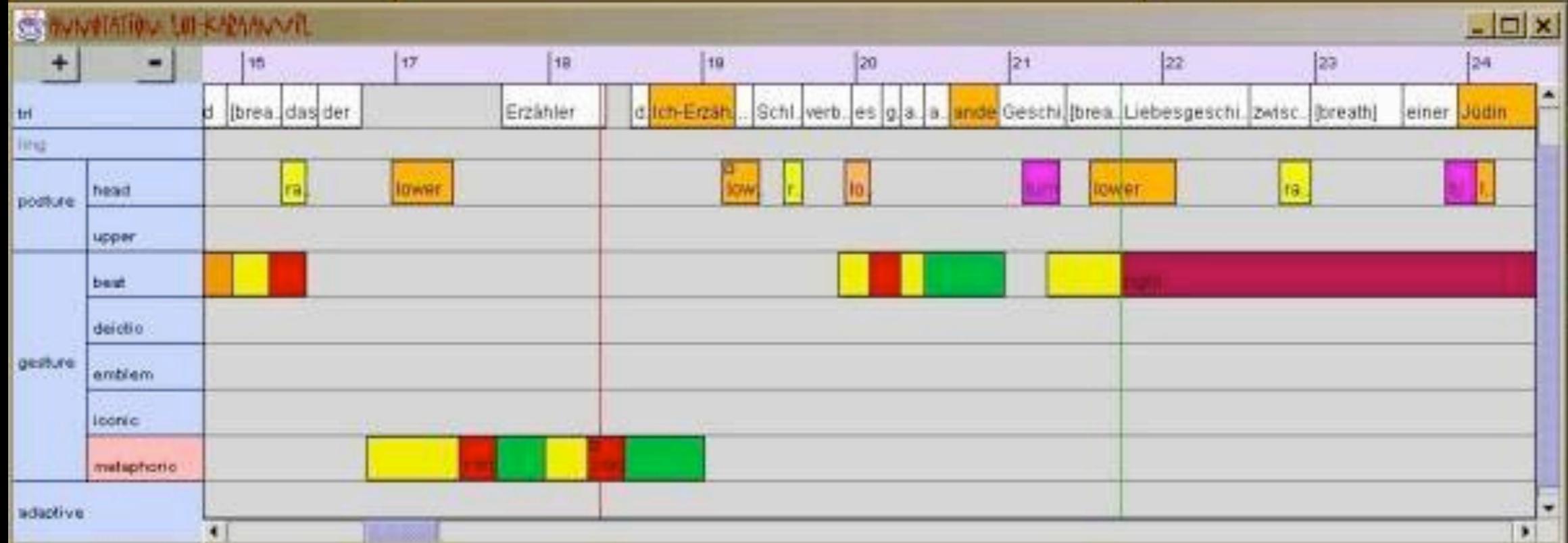
Vertikalt (harmoni, klangfarge, tekstur)

Ritmisk

- 1.Generell
- 2.Deskriptiv
- 3.Funksjonell
- 4.Bevegelse-lyd

Annotering

Anvil



Tidslinje i regneark



Arial

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A9

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A

B

C

D

E

F

1 Analyse av min DVD

2 Alexander Refsum Jensenius

4 Generell

5 Artist: Sting

6 Kilde: Bring on the night (DVD)

7 År: 1985

8

9

10

11

12

13

14

15

16

17

Tid

00:01:00

00:01:01

00:02:37

Deskriptiv

20 Kameraposisjon

Detali

Detali

Oversikt

21 Hvem

Sting

Sting

Band

22 Hvor

Senter

Senter

Senter

23 Utøver

Beveger hånden over
gitarenSting lukker øynene og
synger i mikrofonen

Sting ser mot publikum

Funksjonell

25 Lydproduksjon

Plekter mot streng

Stemme

26 Støttebevegelser

Lener seg bakover

Beveger benet rytmisk

27 Kommunikativ

Sliter med å skape tonen

Uttrykker emosjon

Ser mot publikum

Bevegelse-lyd

29 Melodi

Presser stemmen i
høyt register

30 Rytme

Beveger benet rytmisk

31 Klangfarge, tekstur

Default

STD

Sum=0



OSX:

shift-eple-3 = hele skjermen

shift-eple-4 = velg del av skjermen

klipp ut bilde

Windows:

“prnt scrn” = print screen

HandBrake

Source Stop Pause Add to Queue Show Queue Activity Window Toggle Presets

Source: DEFAULTNTSC_SCN

Title: 1 - 00h59m29s Angle: 1 Chapters: 3 through 3 Duration: 00:08:38

Destination

File: /Users/alexanje/Desktop/min-video.mp4 Browse...

Output Settings: Normal (Default)

Format: MP4 file Large file size Web optimized iPod 5G support

Video Audio Subtitles Advanced

Video Codec: H.264 (x264) Framerate (FPS): Same as source Quality: Target size (MB) Average bitrate Constant quality

2-pass encoding

Picture Size: Source: 720x480, Output: 704x480, Anamorphic: 625x480 Strict
Picture Cropping: Auto 0/0/10/6
Video Filters:

Encoding: pass 1 of 1, 34.45 % (27.95 fps, avg 32.55 fps, ETA 00h05m13s)

Activity Window Toggle Presets

Apple Universal iPod iPhone & iPod Touch AppleTV

Regular Normal High Profile Legacy JVC Everio svensk DVD

Queue - HandBrake

Stop Pause

0 encode(s) pending

Encoding: pass 1 of 1, 34.45 % (27.95 fps, avg 32.55 fps, ETA 00h05m13s)

▶ DEFAULTNTSC_SCN (Title 1, Chapter 3, 1 Video Pass) → min-video.mp4 X

Evolution of Dance | KickYouTube

KickYouTube

Twitter Facebook Flickr Google+ RSS Star

X MP4 FLV HD AVI MPG 3GP IPHONE PSP

Evolution of Dance

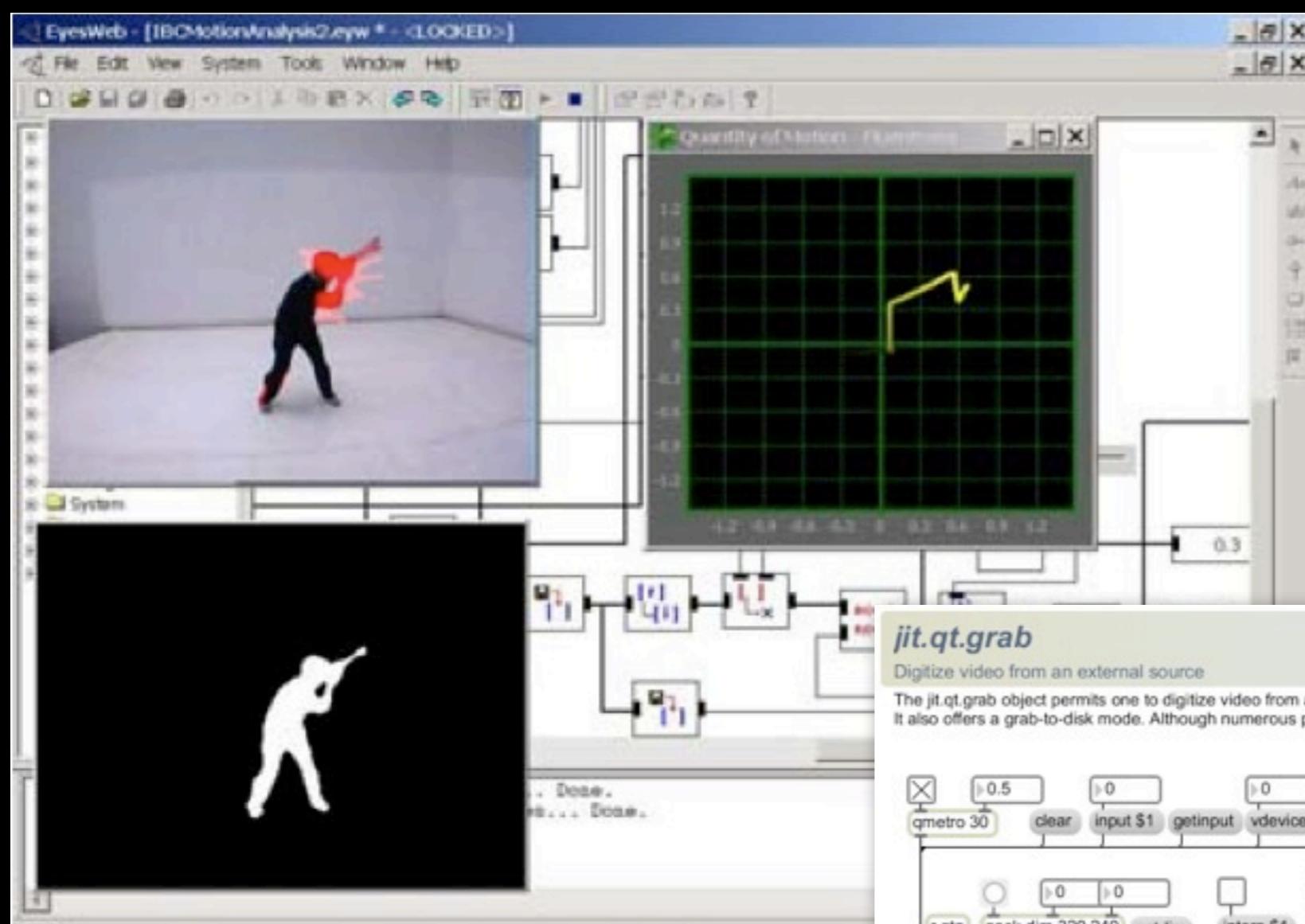
Views: 135739523

Embed: <div style="width:450px">

0:17 / 6:00

YT KICK

saveyoutube.com



EyesWeb

jit.qt.grab

Digitize video from an external source

The jit.qt.grab object permits one to digitize video from any QuickTime-compatible video digitizer, and decompress the signal into a Jitter matrix. It also offers a grab-to-disk mode. Although numerous parameters for control are offered, not all features are supported by all digitizers.

Arguments <width> <height> <vdevice(optional)>

0: preview mode;
1: vdig mode;
2: record mode;
3: min
4: low
5: normal
6: high
7: max (def.)
8: lossless
can be specified with an int or a symbol.

jit.qt.grab 320 240 arguments <width> <height> <vdevice(optional)>

route vdevlist inputlist

open opens the grab component / close closes it. YOU MUST EXPLICITLY OPEN THE GRAB COMPONENT IN ORDER TO USE IT.

close

getdevlist getinputlist

available file types: png, bmp, jpeg, macpaint, photoshop, pict, qtimage, sgi, tga and tiff

settings open the video settings dialog

snd_settings open the sound settings dialog

WINDOWS USERS: jit.qt.grab requires the use of a 3rd party vdig. We recommend either WinVDIG (free) or the Abstract Plane VDIG:
go to WinVDIG go to Abstract Plane

or use jit.dx.grab which uses DirectX.

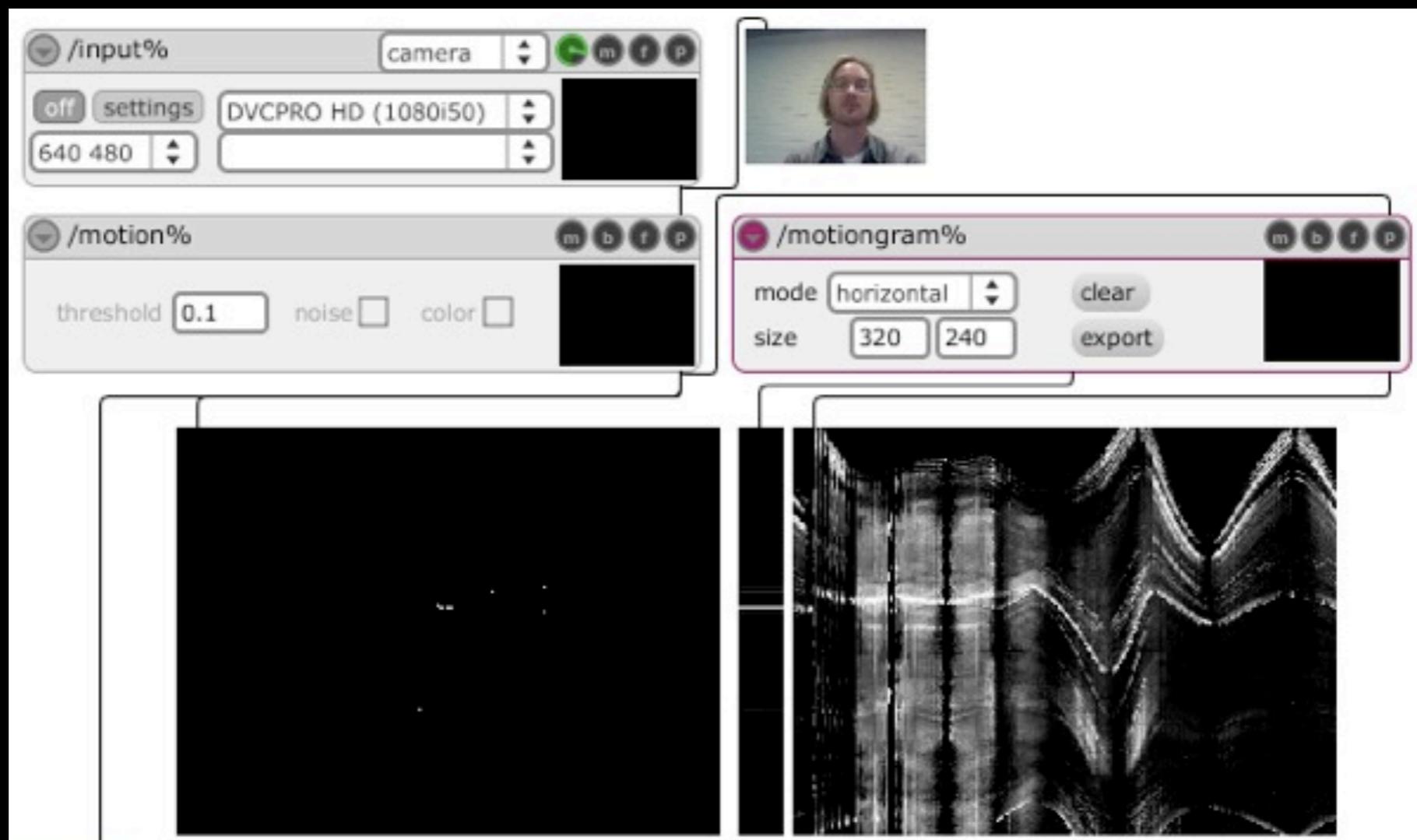
GENERAL NOTE: you should perform a full install of QuickTime prior to using Jitter's jit.qt set of objects.

See Also:

Objects:

33.33387
fps

Musical Gestures Toolbox

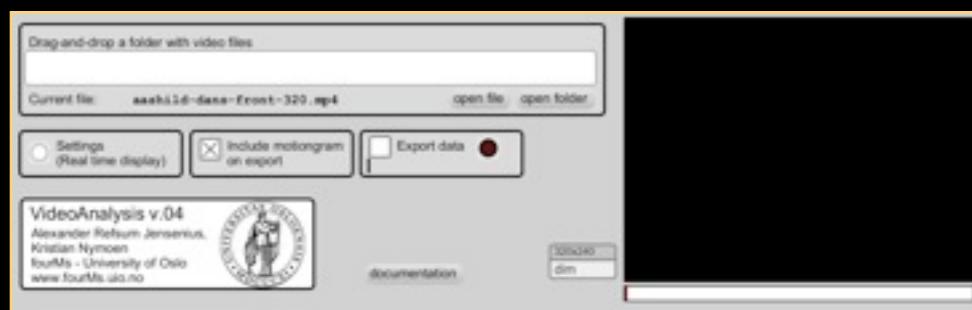


Max/MSP/Jitter

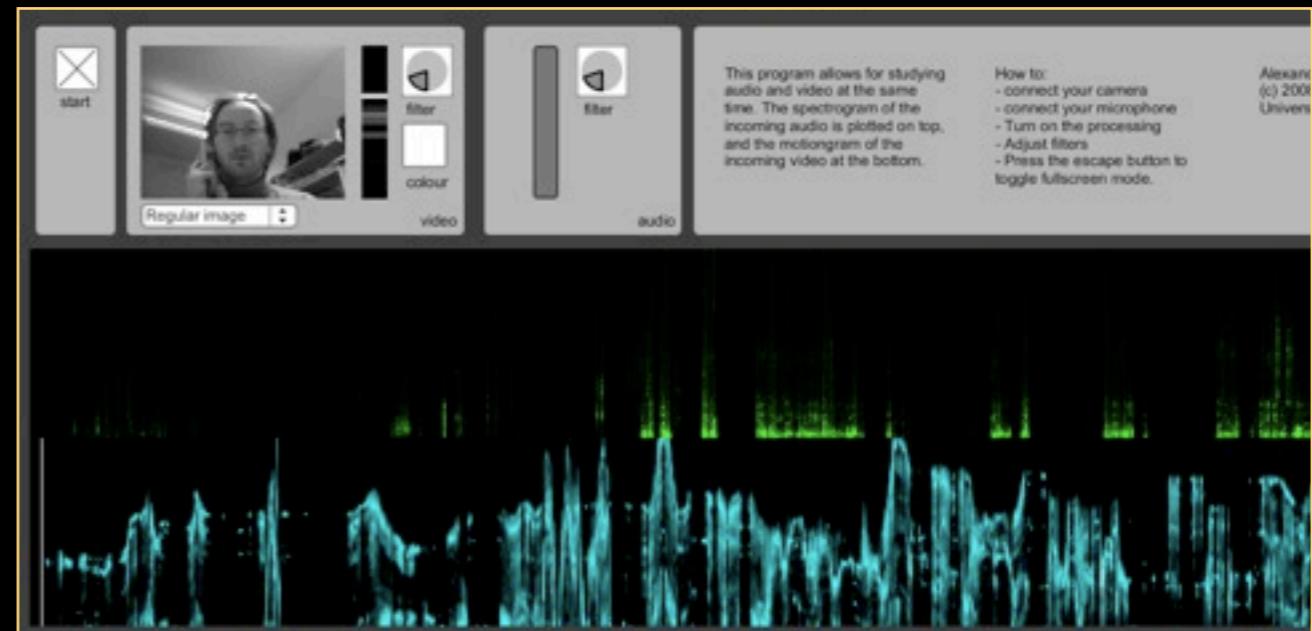
Jamoma



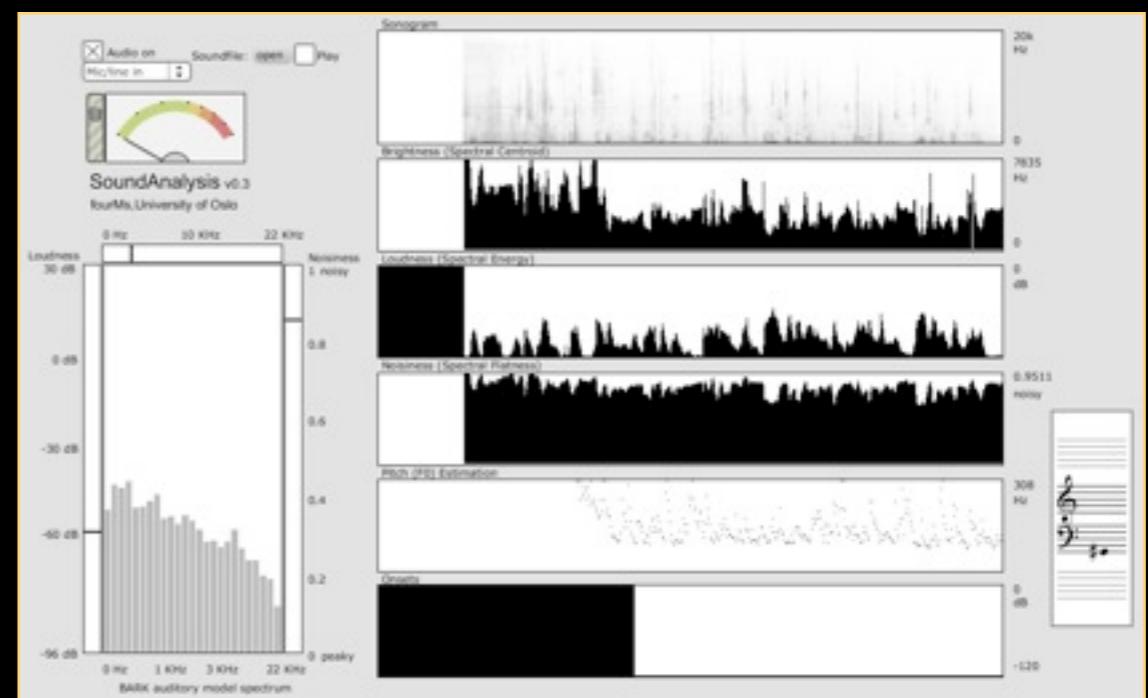
AudioVideoRecorder



VideoAnalysis

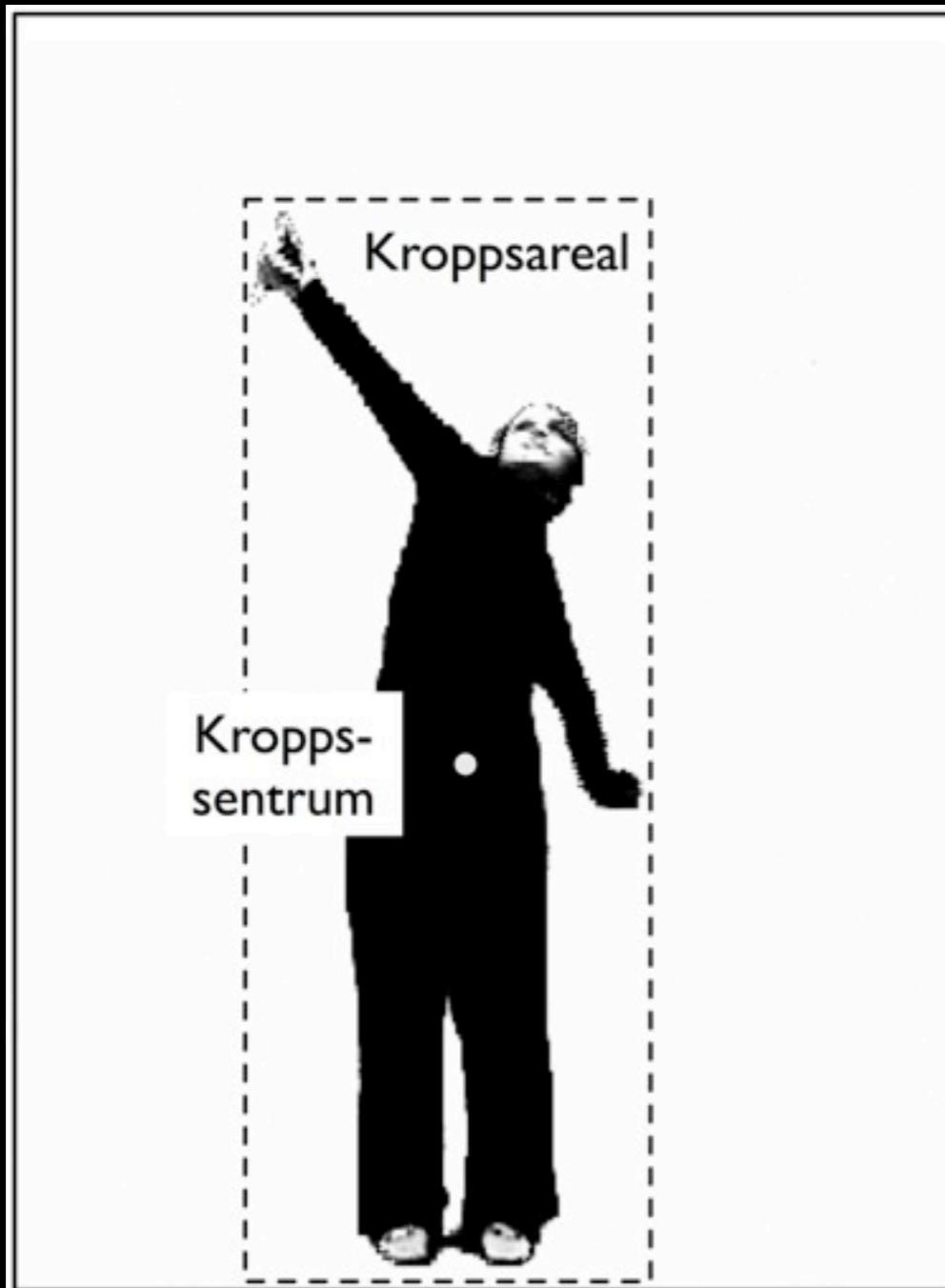


AudioVideoAnalysis

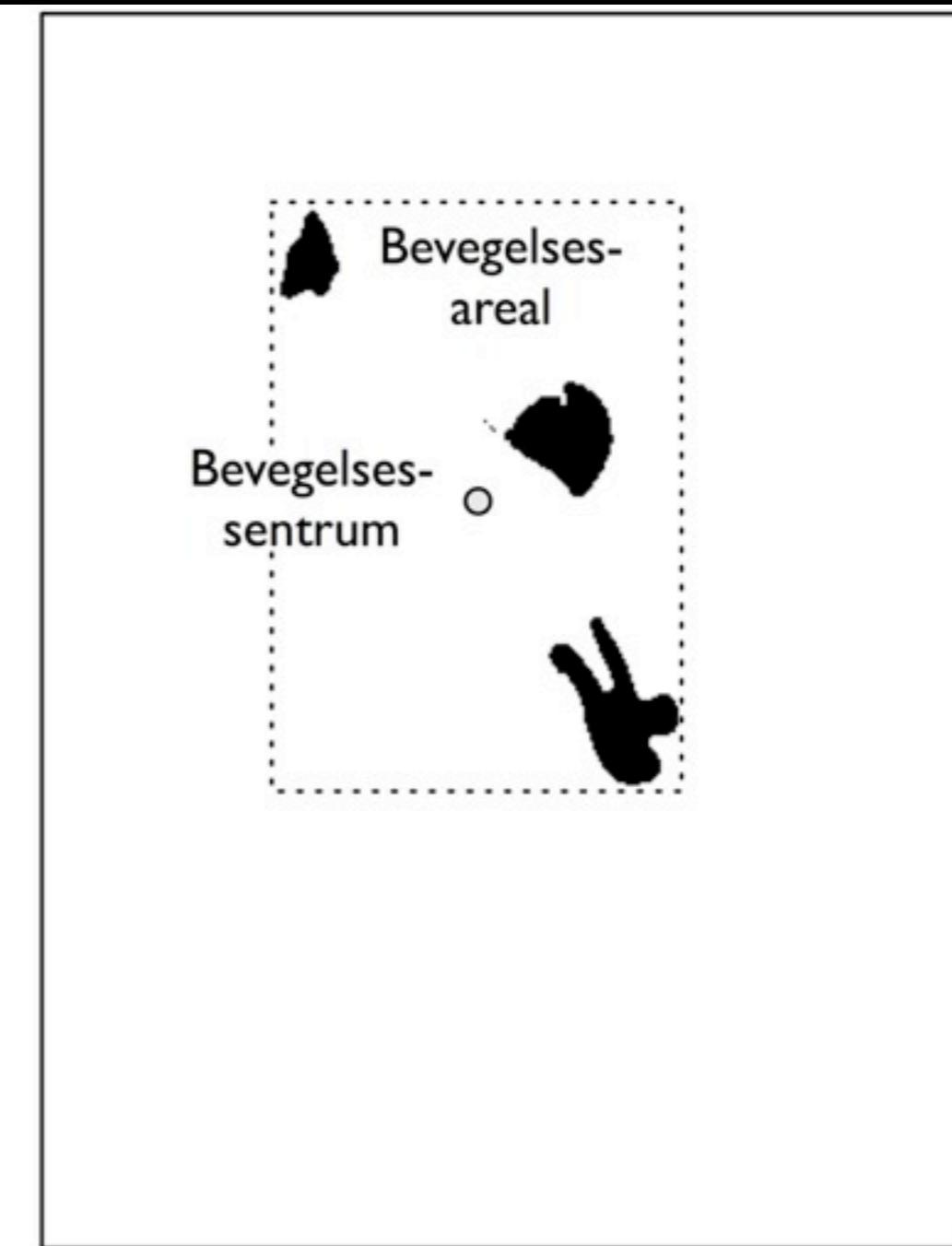


SoundAnalysis

Tall



Kroppsmengde



Bevegelsesmengde

