~~Links-/Rechtshänder erkennen an Bewegungen??, Sachen mit linker und rechter Hand ausprobieren und dann „Selbstsicherheit“ analysieren, oder Sachen machen lassen und schauen, welche Hand genutzt wird (zu wenig MC), es müssten so einfache Übungen sein, dass sie mit beiden Händen erledigbar sind, Vorzeigen, nachmachen, vllt mehrfach durchführen, veränderungen anzeigen??, wird man besser?, wie sehr nähert man sich der „guten“ Seite an~~

Sachen im Raum anordnen, Stapeln?, irgendwohin stellen, etwas malen,

Sachen versuchen regelmäßig zu machen mit/ohne Musik, mit verschiedenen Arten von Musik

~~Tischtennisball mit Schläger hochhalten~~

Irgendwelche Gleichgewichtsübungen (L/R Bein, auf einem Bein stehen)

How much does music disturb one in holding a walking rhythm

Does listening to music change a behaviour

With Which kind of music it is easier to follow the walking rhythm, wie sehr ist man an die Musik gewöhnt?

Does the expression change with different types of music

Metronome, how long does it need to synchronize with new music?

André Novak (01601797):

I want to examine how long the participants need to align their walking to a music rhythm and how well they can keep it. The participants are asked to walk in a self-chosen specific walking rhythm. Then they are confronted with different types of music:

* Hector Berlioz – Symphonie Fantastique, 4. Movement ([Link](https://www.youtube.com/watch?v=sdYRYbjCcJg&t=2300s), 38:20-38:38)
* Rare Earth – Big John is my Name ([Link](https://youtu.be/C2RtDp9RTsU?feature=shared&t=36), 0:36-0:56)
* The Wombats – Greek Tragedy ([Link](https://www.youtube.com/watch?v=9MHmx9nvHqU&t=27s), 0:27-0:48)

The task is to align the walking rhythm to the music. Comparing the alignment capability of the participants to these different types of music I want to examine how synchronisation to music changes with different types of music genres.

For this, markers will be positioned on the toes and heels to capture the walking rhythm. As people use their hands and arms for walking as well, markers will be placed there too.

If needed, I can be later at the MediaLab to perform the recordings.

defining what we want to measure, visualizing (boxplot, diagramms,...)

and how to quantify it

comparison between people

or description of what happens

check on average how well people adapt to music

different types of beat

beat tracking of 20seconds of music

with **sonic visualizer** plugins, oder tap beat with hand

beat tracker plugins (vamp)

gives beat and average tempo of music

people twice the tempo

times values later paste data (link to youtube sended by mr Mühlhans)

export annotation layer

do the same with a step from MC-DATA, combine (two foots, L/R)

what is a step, close to zero in Z, when velocity in near 0

velocity mm/s

biggest problem – how to define a step, in data

also possible with max. velocity

magnitude of velocity, or Z axis

how many steps per time unit

why z in some cases higher/lower

average tempo between the music and comparing these

steps per minute as average value and curve is interesting