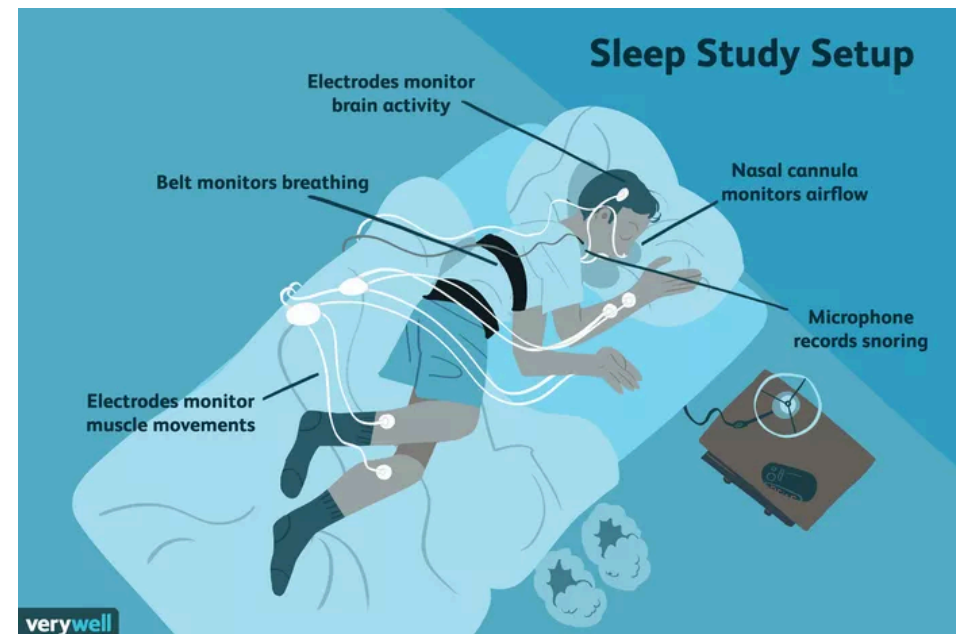
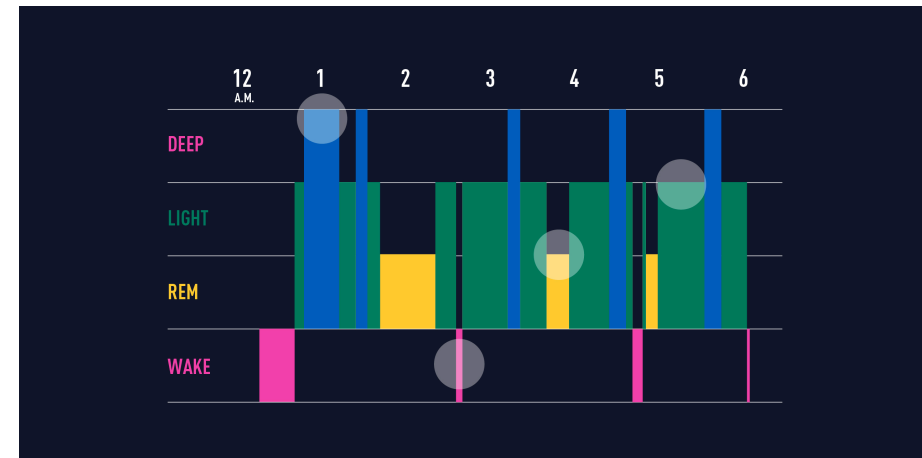


Announcements

- Readings (Week 8 due Sunday 3/1)
 - Health data, out today!
- **Assignment 02**
 - .ipynb received!
- **Today**
 - Let's continue with the gold standard for sleep!
- **Wednesday**
 - Special lecture with an invited expert on Ethics!

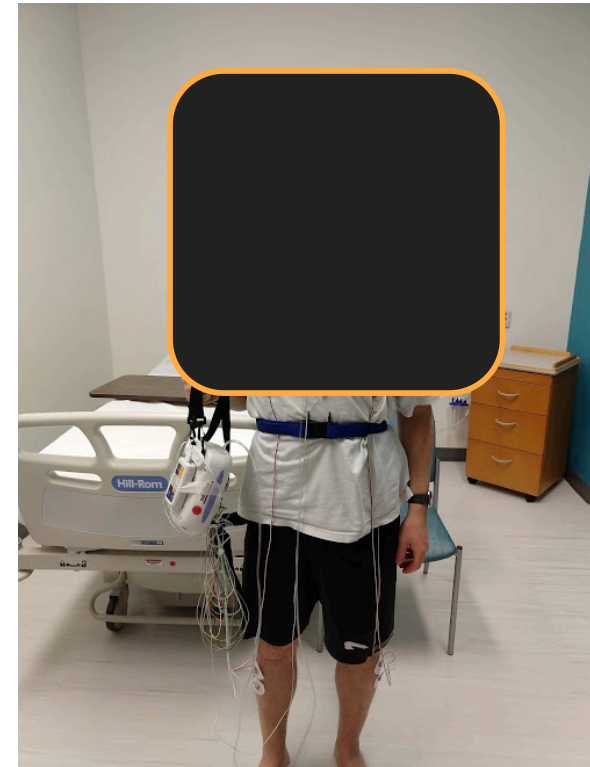
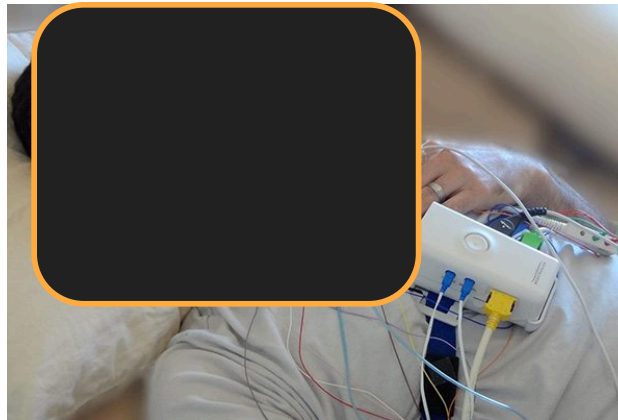
Sleep data

- Total amount of sleep
- What about the different phases of sleep?
 - Hypnogram
 - Awake
 - Light
 - REM
 - Deep



Our dataset

- The participant spent the night from 15 to 16 of Jan in the sleep lab
- We have data from
 - Sensor 1
 - Sensor 2
 - Gold standard polysomnography (PSG)
- Goal
 - Compare the two sensors to the PSG
- Question
 - Is it ok to analyze this data?



Today

- Sensor 1
 - JSON
 - 1 value of the hypnogram EVERY 5 minutes
 - The hypnogram is a string of characters
- Sensor 2
 - JSON
 - Precision of 30 seconds
 - One object with initial time and duration of each phase of sleep
- **Gold standard**
 - **A table in html format**
 - **Precision of 30 seconds**
- **Which sensor is... more accurate?**
 - Create an output with phases of sleep (from 11pm to 6am, 1 value every 30 sec)
 - Plot it
 - Compare it to the gold standard