

Test your GGIR knowledge





GGIR training: Day 1

Dr. Vincent van Hees & Dr. Jairo H Migueles

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1

What are modern acceleration sensors sensitive to?

(Multiple choice)

- Gravitational acceleration
- Heart rate
- Vibrations
- Angular velocity
- Accelerations due to body movement
- Orientation relative to north pole

2

Which arguments/parameters do we **ALWAYS** need to specify? *(Multiple choice)*

- mode
- datadir
- desiredtz
- idloc
- outputdir
- studyname

3

The quality check of the data performed in GGIR includes... *(Multiple choice)*

- Evaluation of the calibration of the sensor
- Non-wear time detection
- Detect whether the sensor is worn on the right location
- Detect that the sensor recorded in the expected sampling frequency

4

Select the window sizes argument that defines a 15-second epoch for the accelerometer metrics aggregation *(Single choice)*

- c(5, 900, 15)
- c(5, 15, 3600)
- c(15, 900, 3600)
- c(900, 3600, 15)

5

What argument allows to analyse the data from different segments in the day? *(Single choice)*

- g.segments
- acc_intervals
- qwindow
- qlevels

6

What argument allows to extract percentiles of acceleration? *(Single choice)*

- g.segments
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GGIR training: Day 2

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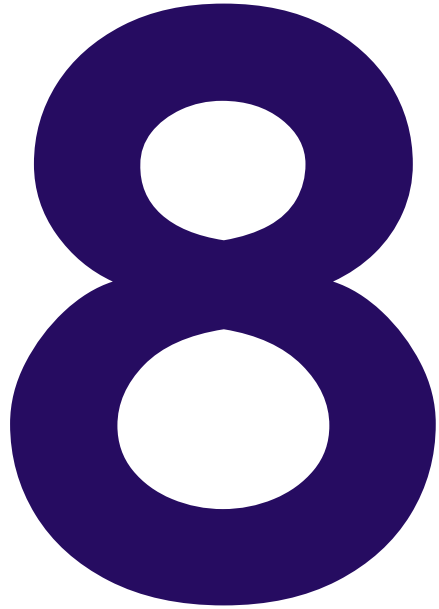
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What is the best definition of a sustained inactivity bout in GGIR? *(Single choice)*

- A period of 5 minutes in which the participant is asleep
- A period of time in which we observe very low movement or posture change in the accelerometer signal and, therefore, might indicate sleep
- It is a sedentary bout with especially harmful consequences for health



What algorithms can you use in GGIR to detect rest/wake status? *(Multiple choice)*

- van Hees 2015
- Sadeh 1994
- Cole-Kripke 1992
- Galland 2012

9

What is the sleep period time? *(Single choice)*

- The main (longest) episode of rest in the day that starts and ends with sleep
- The total time in bed
- The sum of the minutes classified as sleep every day
- The total sleep time

10

How to instruct GGIR to use the HorAngle algorithm? *(Single choice)*

- SPT.algo = “HorAngle”
- HASPT.algo = 2
- SPT.algo = 2
- HASPT.algo = “HorAngle”



GGIR training: Day 3

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11

What is the column cleaningcode? *(Single choice)*

- An indicator of the nights that should be removed from datasets
- An indicator of the time that the device was not worn during nights
- An indicator of the quality of the sleep period time detection
- An estimate of the fraction of time in which the device recorded valid data throughout the measurement

12

What is the main purpose of part 5 in GGIR? *(Single choice)*

- To provide visualizations of the data
- To provide datasets for analytical purposes
- To clean the data that was analysed in parts 1 to 4
- To use sleep estimates to derive a more detailed analysis of daytime physical activity.

13

Can you redefine the epoch length in GGIR part 5?

(Single choice)

- No, this is done in part 1
- Yes, you can select the epoch of your interest in part 5 datasets
- Yes, but only aggregating to 60 seconds is supported in this phase of the pipeline

14

Select the sentence/s that apply to MVPA bouts in GGIR. *(Multiple choice)*

- Users can define the bout length
- Users can define when a certain bout is broken (maximum gap length for a bout)
- Users can define the proportion of the bout duration that the acceleration should meet the threshold criteria.
- Users can define in which order the bouts should be detected.

15

How many csv reports (datasets) do we expect from part 5? *(Single choice)*

- One per configuration selected, including thresholds, sustained inactivity bout, and window definition
- Two per configuration selected, including thresholds, sustained inactivity bout, and window definition
- Three per configuration selected, including thresholds, sustained inactivity bout, and window definition

16

What does “_wei” mean at the end of the variable names in part 5 personsummary reports? *(Single choice)*

- Weekend average.
- Weekly average
- Weekday and weekend day weighted average.

17

I got an error in GGIR that I am not able to resolve, so, how do I proceed? *(Single choice)*

- If I've got some coding skills, I try to fix that problem in my local version of GGIR, so that I can go ahead with my project bothering anyone else
- I post the error to the google group or as an issue in the GitHub repository, and wait for help
- I e-mail Vincent, Jairo, or someone else with experience with GGIR and hope that they can help me.
- I create a detailed, reproducible description of the error and what I have tried to solve it. Here, I try to make it as easy as possible for others to help me. Next I post this in the GGIR Google group



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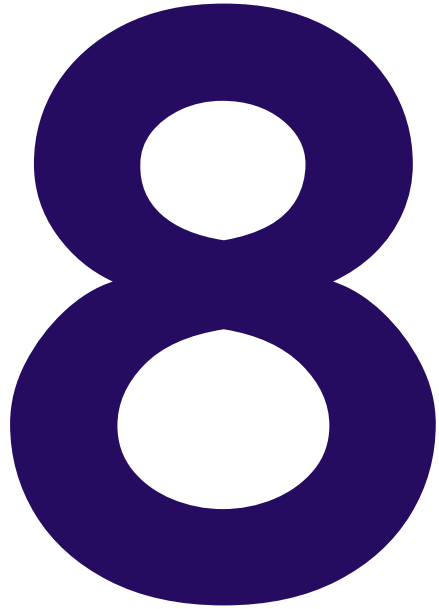
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