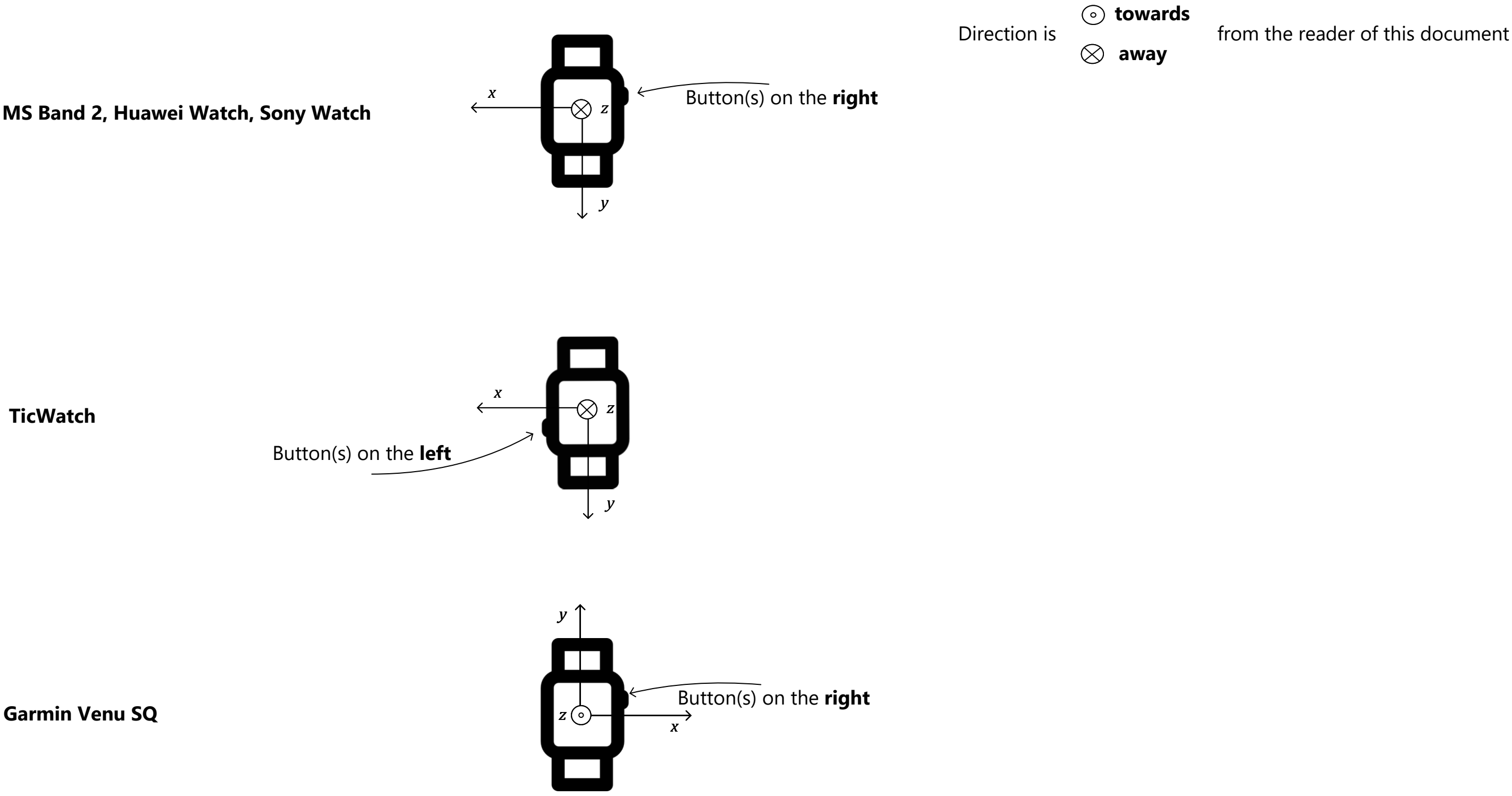
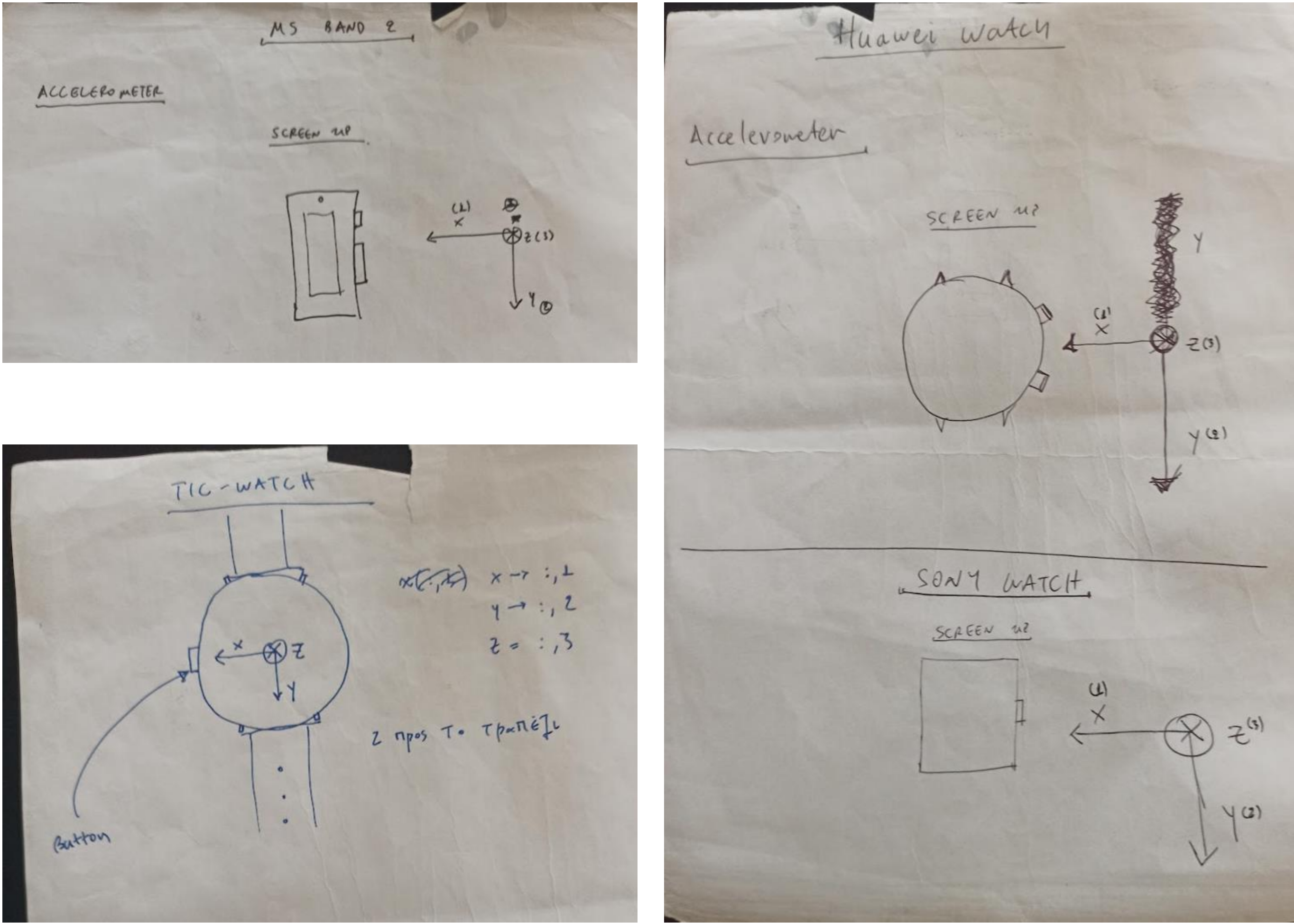


Smartwatch IMU orientation



Original drawings



Compatibility with the e2e_py_rev framework

All data are transformed to represent to the **RIGHT-BOTTOM** position using the **MS Band 2 watch**; where **RIGHT** corresponds to **right hand** and **BOTTOM** corresponds to the watch positioned **inside the wrist** (see image below).



Figure showcasing an MS Band 2 smartwatch in the RIGHT-BOTTOM position. This position/hardware combination represents the format of the IMU signals in the e2e_py_rev framework.

Example #1

Transform IMU data from a (a) **Sony Watch** worn (b) **above the wrist** on the (c) **right hand**.

	RIGHT-TOP (recorded data)	RIGHT-BOTTOM (transformed data)
Accelerometer	x y z	x -y -z
Gyroscope	x y z	x -y -z

Example #2

Transform IMU data from a (a) **Sony Watch** worn (b) **above the wrist** on the (c) **left hand**.

	LEFT-TOP (recorded data)	RIGHT-TOP (intermediate data)	RIGHT-BOTTOM (transformed data)
Accelerometer	x y z	-x y z	(-x) -(y) -(z)
Gyroscope	x y z	x -y -z	(x) -(-y) -(-z)