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### Sample Data Sets for Inertial and Magnetic Sensors

Inertial and magnetic sensors have found their way into a multitude of consumer products, but many engineers have little or no experience with them. The data included here is provided for educational purposes. By comparing/contrasting the various data sets, engineers can develop a better understanding of the pros and cons of various filtering and data recognition approaches associated with these classes of device.

The report presents inertial/magnetic data captured via a third-party IMU (non-NXP inertial measurement unit). The intent is to try to capture typical data sets for a variety of actions such as: lift, slide, tap, nudge, stationary (on table, in pocket), as well as inertial data for walking, standing stationary, etc. Graphs are generated of acceleration, magnetic readings and gyro readings over time. Basic statistics are attached for each data set.

- Inertial Measurement Unit Used For Study (/products/sensors/sample-data-sets-for-inertial-and-magnetic-sensors/inertial-measurement-unit:SENSORDATA_IMU)
- Data File Format (/products/sensors/sample-data-sets-for-inertial-and-magnetic-sensors/data-file-format:SD_DATAFILEFORMAT)
- Matlab Scripts (/products/sensors/sample-data-sets-for-inertial-and-magnetic-sensors/matlab-scripts:SD_MATLAB_SCRIPTS)

See the Dataset Terms of Use Page regarding limitations of use.

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### Sample Data Sets

- Actions (/webapp/sps/site/overview.jsp?code=SENSORDATA#Actions)
- Environment (/webapp/sps/site/overview.jsp?code=SENSORDATA_ENVIRONMENT#Environment)
- Events (/webapp/sps/site/overview.jsp?code=SENSORDATA_EVENTS#Events)
- Gestures (/webapp/sps/site/overview.jsp?code=SENSORDATA_GESTURES#Gestures)
- Locomotion (/webapp/sps/site/overview.jsp?code=SENSORDATA_LOCOMOTION#Locomotion)

**Click the listed items to see the data set.**

- FastPickup
- Nudge
- Pickup
- Slide
- SlowPickup
- button_click

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