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Sensor	HW/SW	Description	Use	
TYPE_ACCELEROMETER	нw	Rate of change of velocity	Shake, Tilt	
TYPE_AMBIENT_TEMPERATURE	нw	Room temperature	Monitor Room temp	
TYPE_GRAVITY	SW/HW	Gravity along X,Y,Z axes	Shake, Tilt	
TYPE_GYROSCOPE	нw	Rate of rotation	Spin, Turn	
TYPE_LIGHT	нw	Illumination level	Control Brightness	
TYPE_LINEAR_ACCELERATION	SW/HW	Acceleration along X,Y,Z – g	Accel. Along an axis	
TYPE_MAGNETIC_FIELD	нw	Magnetic field	Create Compass	
TYPE_ORIENTATION	SW	Rotation about X,Y,Z axes	Device position	
TYPE_PRESSURE	нw	Air pressure	Air pressure	
TYPE_PROXIMITY	нw	Any object close to device?	Phone close to face?	
TYPE_RELATIVE_HUMIDITY	нw	% of max possible humidity	Dew point	
TYPE_ROTATION_VECTOR	SW/HW	Device's rotation vector	Device's orientation	
TYPE_TEMPERATURE	нw	Phone's temperature	Monitor temp	





Sensor Values/Types					
Sensor	Sensor event data	Description	Units of measure		
TYPE_ACCELEROMETER	SensorEvent.values[0]	Acceleration force along the x axis (including gravity).	m/s²		
	SensorEvent.values[1]	Acceleration force along the y axis (including gravity).			
	SensorEvent.values[2]	Acceleration force along the z axis (including gravity).			
TYPE_GRAVITY	SensorEvent.values[0]	Force of gravity along the x axis.	m/s²		
	SensorEvent.values[1]	Force of gravity along the y axis.			
	SensorEvent.values[2]	Force of gravity along the z axis.			
TYPE_GYROSCOPE	SensorEvent.values[0]	Rate of rotation around the x axis.	rad/s		
	SensorEvent.values[1]	Rate of rotation around the y axis.			
	SensorEvent.values[2]	Rate of rotation around the z axis.			
TYPE_OROSCOPE_MCALIBRATED	SensorEvent.values[0]	Rate of rotation (without drift compensation) around the x axis.	rad/s		
	SensorEvent.values[1]	Rate of rotation (without drift compensation) around the y axis.			
	SensorEvent.values[2]	Rate of rotation (without drift compensation) around the z axis.			
	SensorEvent.values[3]	Estimated drift around the x axis.			
	SensorEvent.values[4]	Estimated drift around the y axis.			
	SensorEvent.values[5]	Estimated drift around			





## **Examples of Context**

- Identity (user, others, objects)
- Location
- Date/Time
- Environment
- Emotional state
- Focus of attention
- Orientation
- User preferences
- Calendar (events)
- Browsing history
- Behavioral patterns
- Relationships (phonebook, call history)
- ... the elements of the user's environment that the computer knows about...





















































































