

# Expressy-Smartwatch

Using a Wrist-worn Inertial Measurement Unit to add Expressiveness to Touch-based Interactions

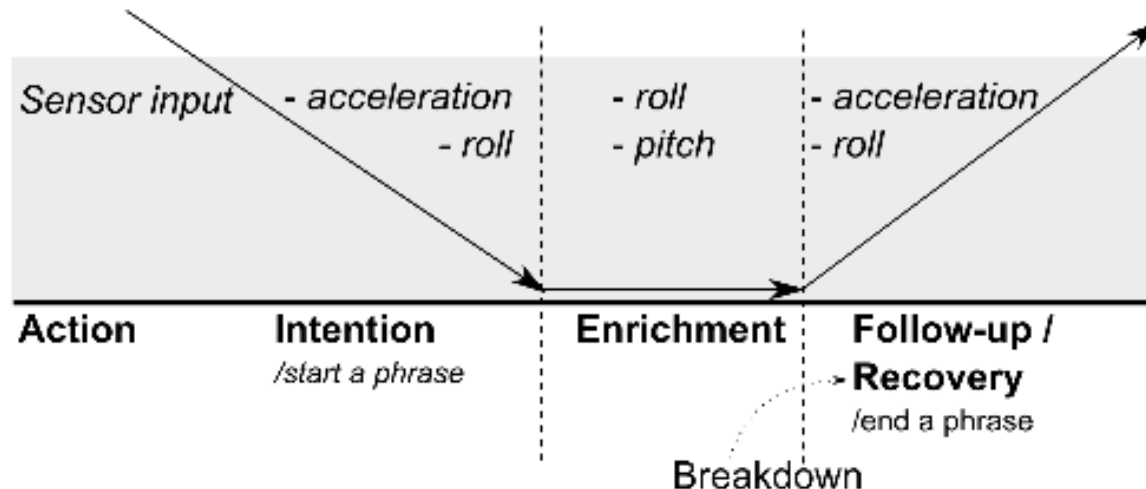
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# The Paper

1. The main aim is enhancing the richness and complexity of touch interaction
2. Expressy uses a wrist-worn inertial measurement unit (IMU) to detect and classify qualities of touch interaction that extend beyond those offered by today's typical touch-sensing hardware.



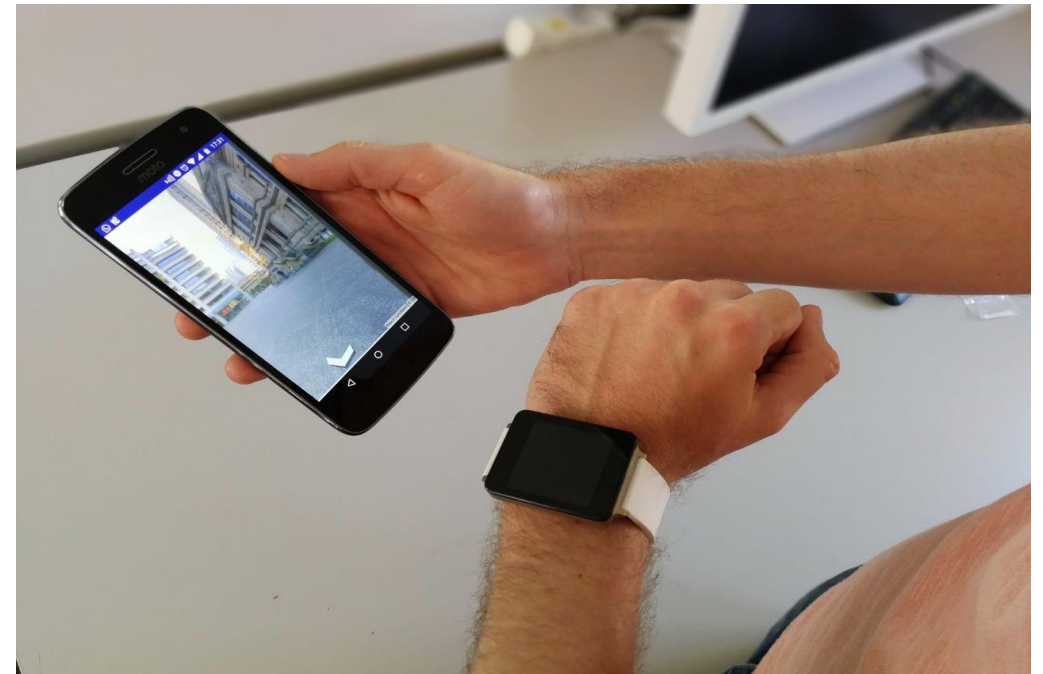
- Acceleration sensor
- Gyroscope

# Paper VS Our Solution - Maps

The user has to touch the screen and turn the wrist in order to move the camera's direction. It uses touch and gyroscope sensor.

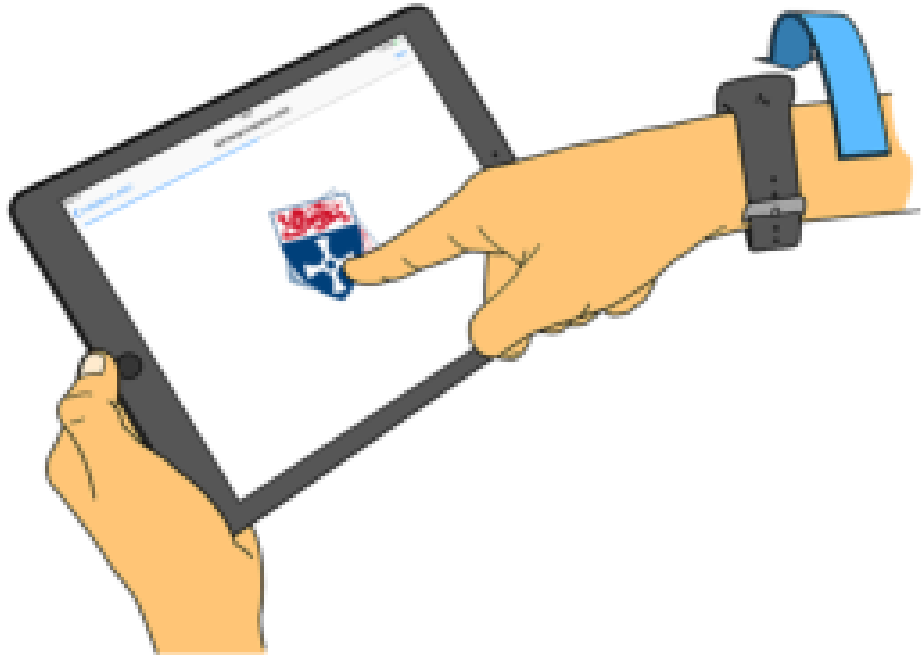


The user only has to move the wrist to change the camera's view. It uses the accelerometer sensor.



# Paper **VS** Our Solution – Jigsaw Puzzle

The puzzle's piece is rotated while the user touch and roll their wrist..



The user touches one piece, removes their finger from the screen and then roll their wrist in order to rotate the piece.



# Prototype Show





# Future Work

