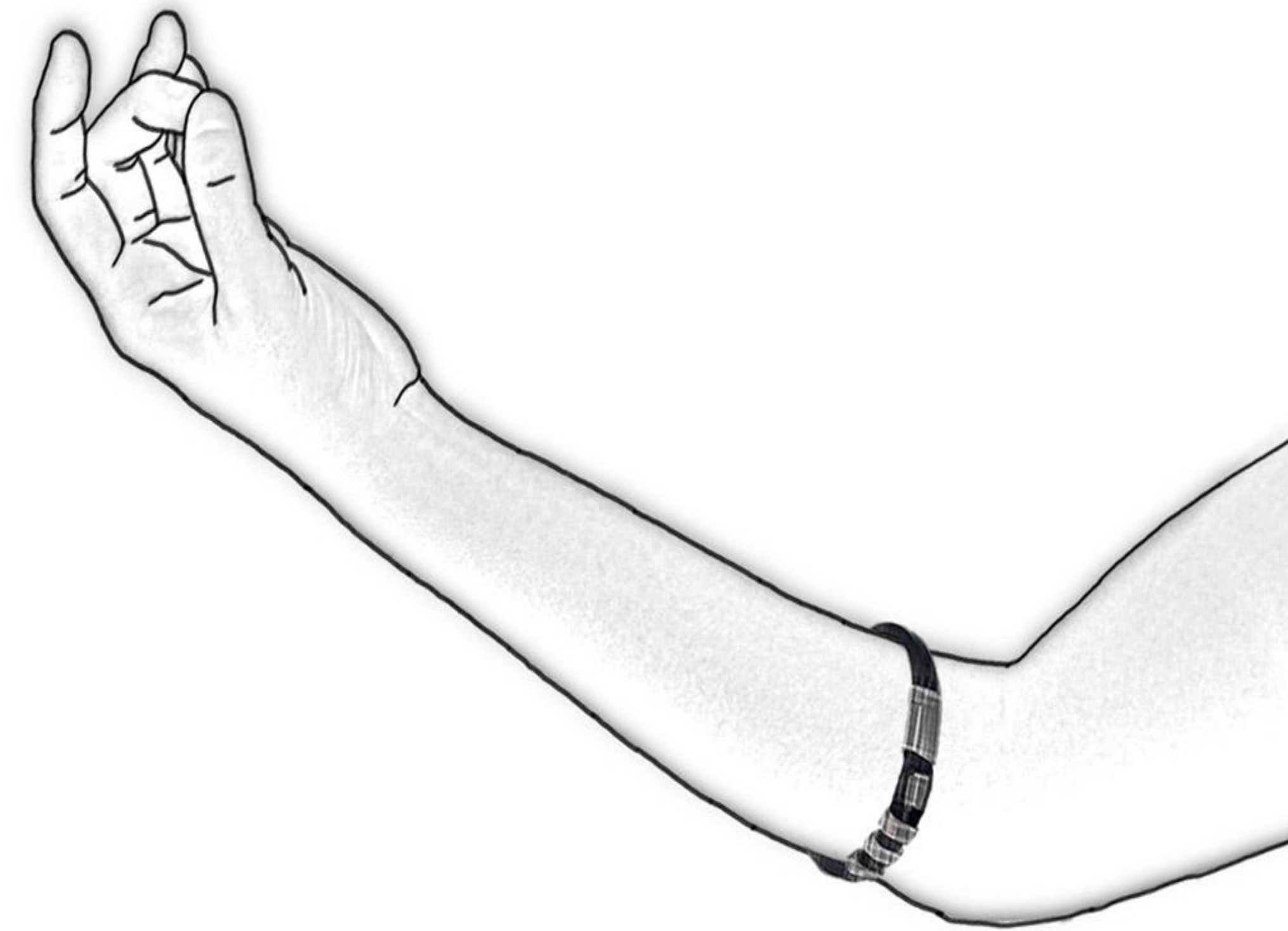


Muscle-Computer Interfaces

Enabling Always-Available Input

Muscle-Computer Interfaces leverage our hand's abilities without a physical input device under our fingers

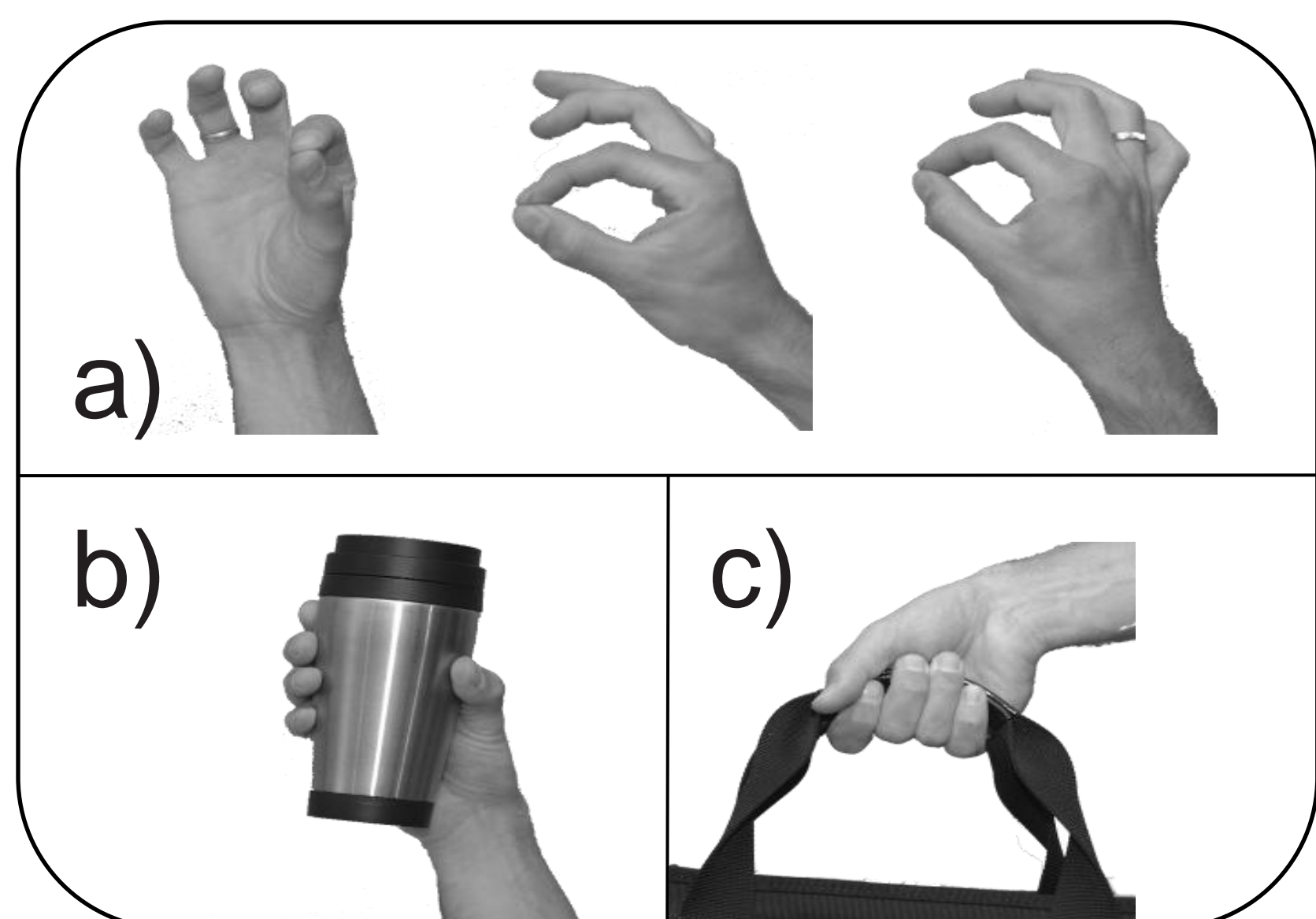
- Interesting text about muCIs
 - cool
 - awesome
- Even better
 - neat stuff
 - great things
 - other goodies



Applications

- Portable Music Player
 - currently awkward to control while running or biking
 - pinch gestures to control music player while active
- Hands-Busy Control of Devices
 - hands already occupied with an object or gloves
 - use pressing gestures on the object
 - something else

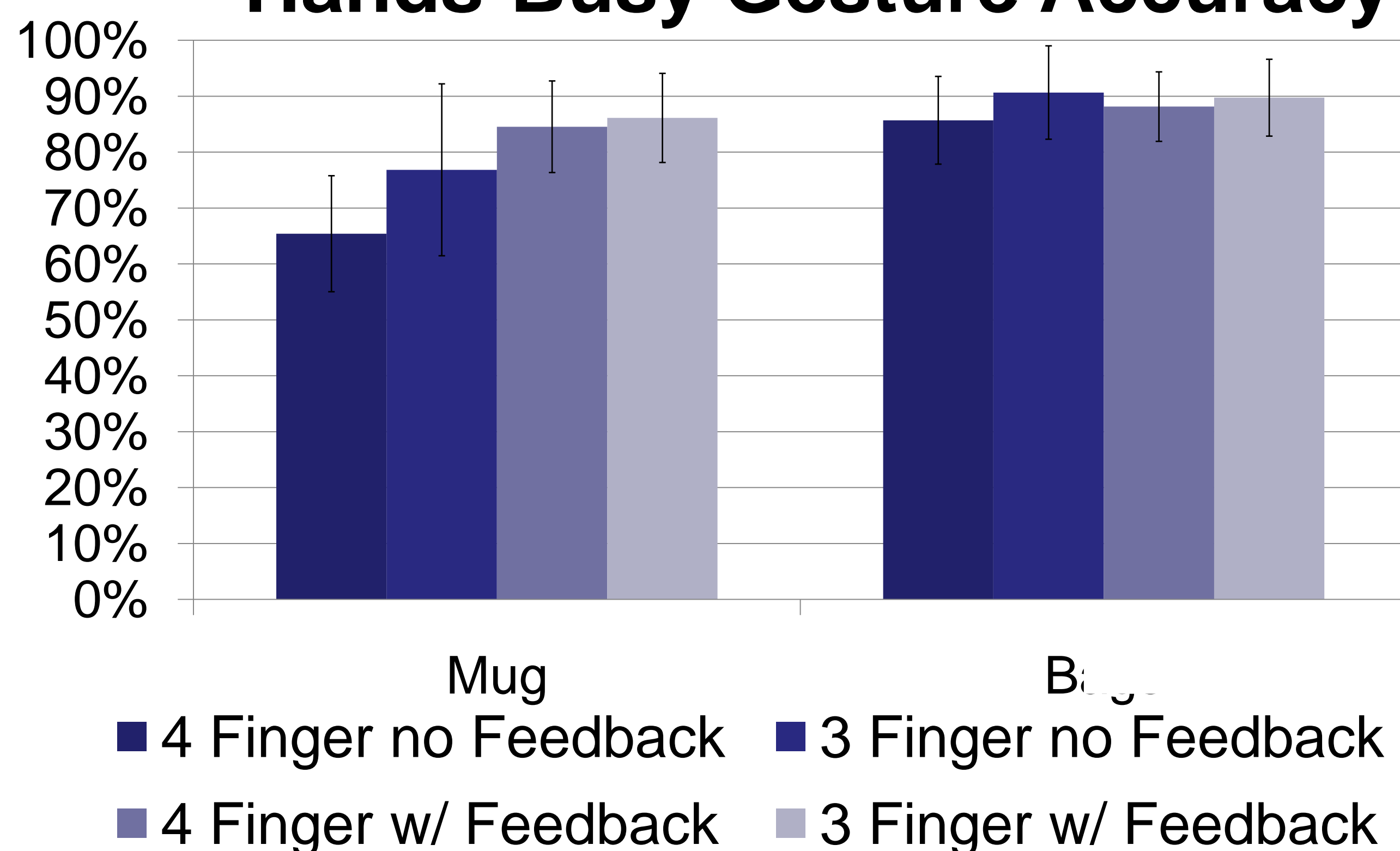
Gesture Sets



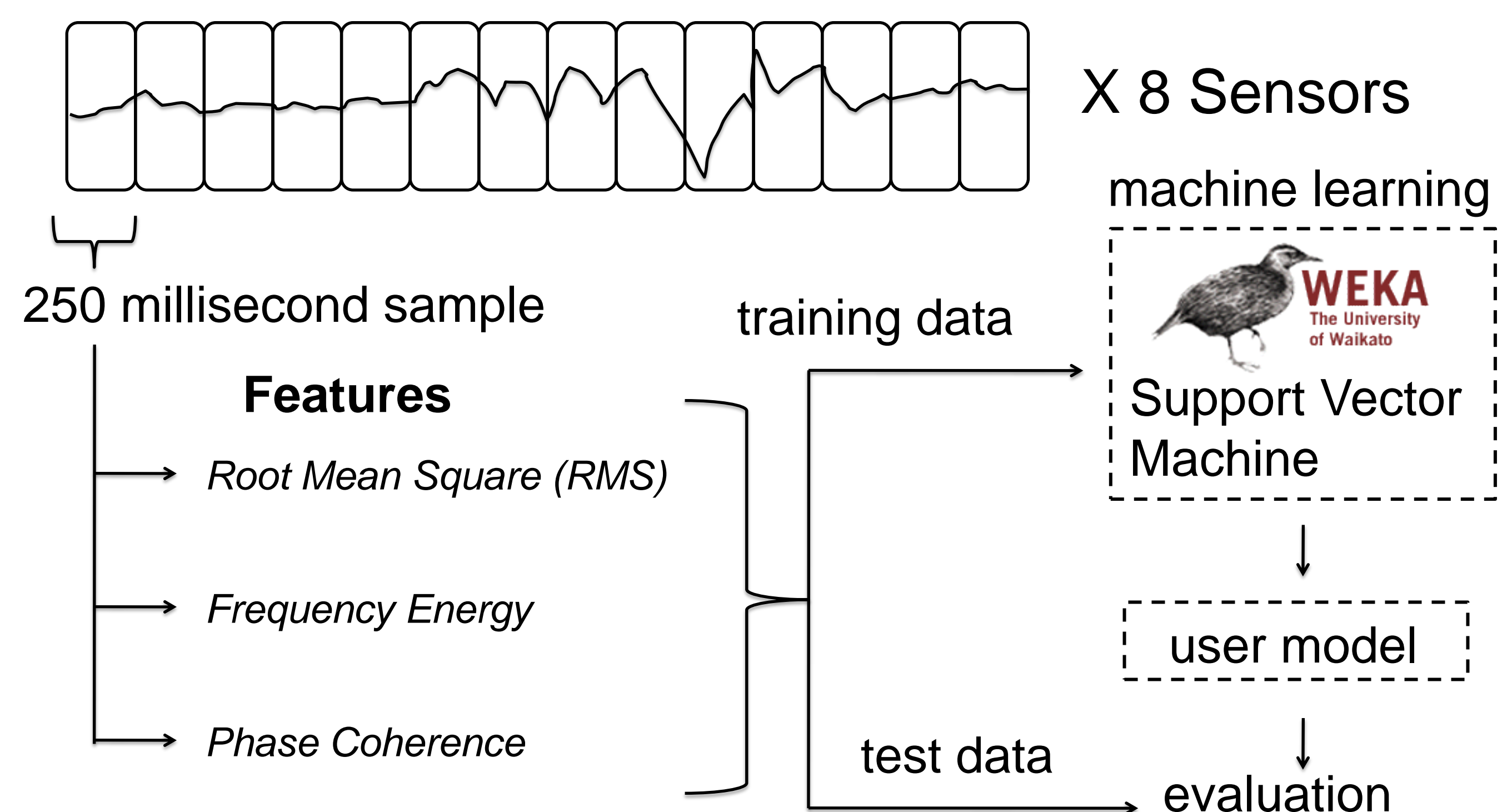
- a) pinch gestures performed in three arm postures
 b) fingers squeezing a travel mug
 c) fingers pulling up against the handle of a carried bag

Laboratory Study (n=12)

Hands-Busy Gesture Accuracy



Gesture Classification Technique



Pinch Gesture Accuracy

