

## Trending Data Collecting Methods:

### Questionnaires:

Given a source as a stimulus, subject's emotional states is recorded in questionnaires and scaling is done based on its degree.

### Performing Gesture:

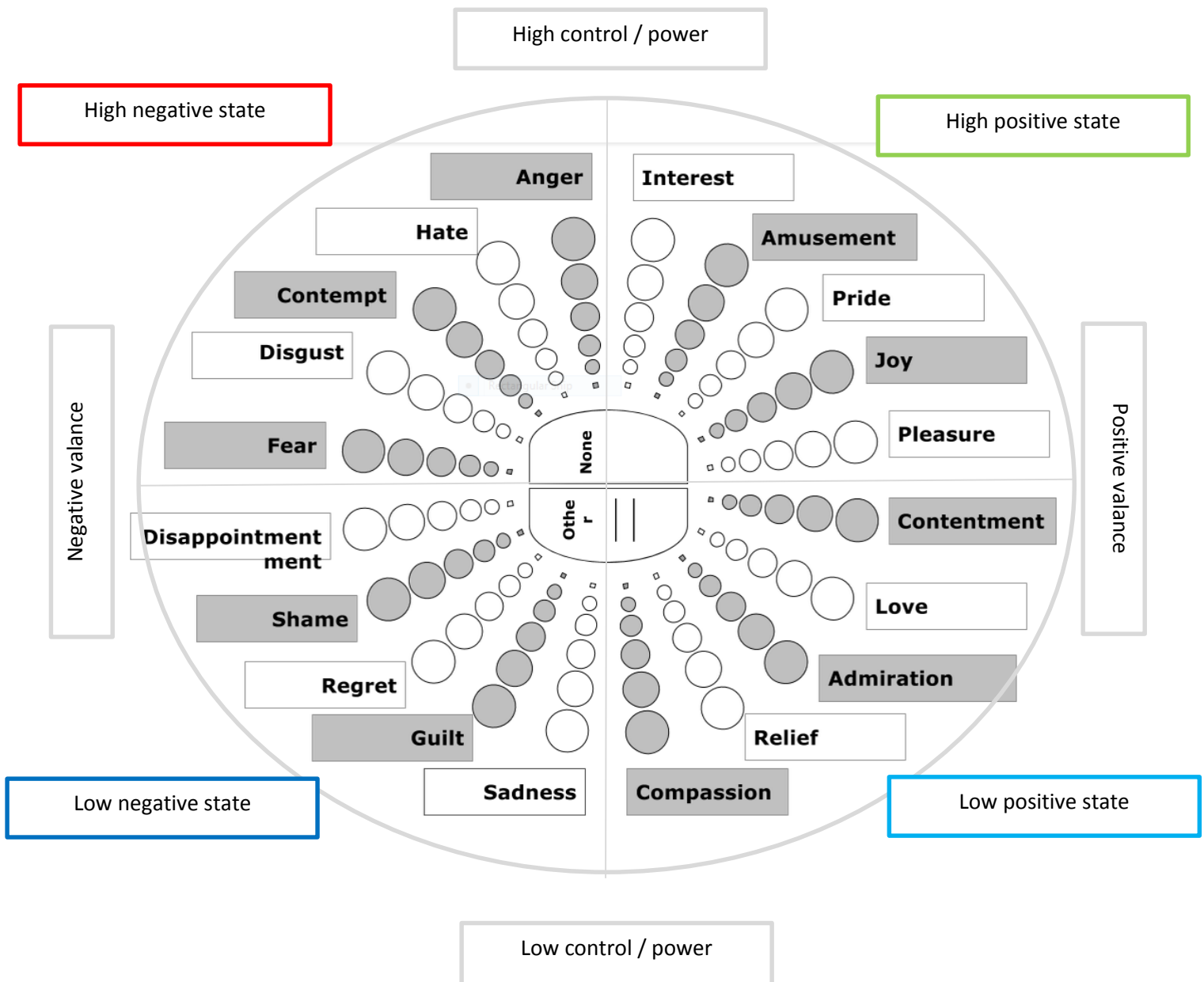
Given an emotion state, subjects are asked to perform gestures for that.

### Applications:

Applications recording day to day gesture activity is created and tested with the subjects.

Out of these three methods, Questionnaires is used in most cases.

## Abstract Emotion States:



## Touch Properties:

1. Pressure
2. Speed
3. Length

## Revised Data Set Format:

**T<sub>1</sub>** Walking (low acceleration)

Time Stamp	t1a	t1b	t1c	t1d
Gesture	Click	Click	Click	Swipe
Touch Property	Pressure	Pressure	Pressure	Speed, length, Pressure

## Gesture Properties:

Event	Abbreviation	Properties
Click	C	Pressure
Swipe	Sw	Length (speed) , Pressure
Scroll	Sc	Length (speed) , Pressure

Activity Value (AV) = average of values of gesture events in a particular sub interval.

Pressure is directly proportional to AV.

Assumptions:

1. If Length and Pressure are directly proportional, only Pressure is considered for evaluation.

Possible cases for assigning values to gesture events for each sub interval:

- 1: Assign values for each timestamp .
- 2: Assign values as an average for particular gesture event in each sub interval .

**Gesture AV in the interval 6 sec:**

Gesture event	c,c,c,sw,c,,c,sc,c	c,sw,sc,c,c,c,c,c	c,sw,c,c,c,c,sc,c,c
Activity value	X p	Y p	Z p
Sub interval	2sec	2sec	2sec
Full interval	6sec		

Gesture event	c,c,sw,c,,c,sc,c	c,sw,sc,c,c	c,sw,c,c,c
Activity value	X p	Y p	z p
Sub interval	2sec	2sec	2sec
Full interval	6sec		

Graph representing the Gesture Activity Value to Abstract Emotion State

