Analyses results:

# Tests:“Is there a significant difference between the groups in touch, needs and affect”?

t-tests

* Appropriate x Condition\*\*\*
  + t = 11.6
  + p < .001
  + d: 1.36 (large)
* Expectation x Condition\*\*\*
  + t = 9.04
  + p < .001
  + d: 1.08 (large)
* Relation2Partner x Condition\*\*\*
  + t = 14.57
  + p < .001
  + d = 1.68 (large)
* Roughness x Condition\*\*\*
  + t = 9.8
  + p < .001
  + d = 1.13 (large)
* Pleasantness x Condition\*\*\*
  + t = 20.52
  + p < .001
  + d = 2.37 (large)
* Power x Condition\*\*\*
  + t = 7.10
  + p < .001
  + d = 0.81 (large)
* Comfortable\*\*\*
  + t = 23.66
  + p < .001
  + d = 2.73(large)
* Duration\*\*\*
  + t = 6.15
  + p < .001
  + d = 0.71 (medium)
* Appropriate\*\*\*
  + t = 11.63
  + p < .001
  + d = 1.34 (large)
* Humidity\*\*
  + t = 2.62
  + p = .009
  + d = 0.40 (small)
* Velocity\*\*\*
  + t = -3.84
  + p < .001
  + d = -0.48 (small)
* GrandNeedMean\*\*\*
  + t = 8.38
  + p < .001
  + d = 0.96 (large)
* Autonomy\*\*\*
  + t = 6.13
  + p < .001
  + d = 0.72 (medium)
* Competence\*
  + t = 2.16
  + p = .03
  + d = 0.24
* Relatedness\*\*\*
  + t = 16.95
  + p < .001
  + d = 2.23 (large)
* SelfActualization\*\*\*
  + t = 6.75
  + p < .001
  + d = 0.77 (medium)
* PhysicalThriving\*\*\*
  + t = 7.55
  + p < .001
  + d = 0.87 (large)
* PleasureStimulation\*\*\*
  + t = 5.24
  + p < .001
  + d = 0.60 (medium)
* Security\*\*\*
  + t = 5.63
  + p < .001
  + d = 0.65 (medium)
* SelfEsteem\*\*\*
  + t = 6.13
  + p < .001
  + d = 0.70 (medium)
* Popularity\*\*\*
  + t = 4.63
  + p < .001
  + d = 0.53 (medium)
* PositiveAff\*\*\*
  + t = 11.36
  + p < .001
  + d = 1.31 (large)
* NegativeAff\*\*\*
  + t = -11.19
  + p < .001
  + d = -1.29 (large)
* CompositeAff\*\*\*
  + t = 15.49
  + p < .001
  + d = 1.78 (large)

Answer: **Yes, the groups are significantly different at all measures.**

# Test: “Can needs predict affect?”

* **Negative affect**
* Analyses: Linear regression
  + **GrandNeedMean** = Independent variable
* Results:
  + F(1,298) = 37.69, p < .001, Adjusted R2 = 0.11
* Analysis: Multiple linear regression
  + **Relatedness** + **SelfEsteem** = Independent variables
* Results
  + F(2,297) = 43.31, p < .001, Adjusted R2 = 0.22
* Analysis: Multiple linear regression
  + **Relatedness** = Independent variable
* Results
  + F(1,298) = 81.03, p < .001, Adjusted R2 = 0.21
* **Positive affect**
* Analysis: Linear regression
  + **GrandNeedMean** = Independent variable
* Results:
  + F(1,298) = 350, p < .001, Adjusted R2 = 0.53
* Analysis: Linear regression
  + **Relatedness** = independent variable
* Results
  + F(1,298) = 181.1, p < .001, Adjusted R2 = 0.37
* Analysis: Multiple linear regression
  + **Relatedness** + **PhysicalThriving** = independent variables
* Results
  + F(2,297) = 132.1, p < .001, Adjusted R2 = 0.46
* Analysis: Multiple linear regression
  + **Relatedness** + **PhysicalThriving** + **Autonomy** = independent variables
* Results
  + F(3,296) = 102, p < .001, Adjusted R2 = 0.50
* Analysis: Multiple linear regression
  + **Relatedness** + **Autonomy** + **SelfActualization** = independent variables
* Results
  + F(3,296) = 122.7, p < .001, Adjusted R2 = 0.54
* Analysis: Multiple linear regression
  + **Relatedness** + **GrandNeedMean** = independent variables
* Results
  + F(3,296) = 122.7, p < .001, Adjusted R2 = 0.54
* **Composite affect**
* Analysis: Linear regression
  + **GrandNeedMean** = independent variable
* Results
  + F(1,298) = 263.4, p < .001, Adjusted R2 = 0.46
* Analysis: Linear regression
  + **Relatedness** = independent variable
* Results
  + F(1,298) = 245.1, p < .001, Adjusted R2 = 0.44
* Analysis: Multiple linear regression
  + **Relatedness** + **Autonomy** = independent variable
* Results
  + F(2,297) = 146, p < .001, Adjusted R2 = 0.49
* Analysis: Multiple linear regression
  + **Relatedness** + **GrandNeedMean** = independent variable
* Results
  + F(2,297) = 165.6, p < .001, Adjusted R2 = 0.52