**Read Me File for Data and Code**

**Empathy and Well-Being Correlate with Centrality in Different Social Networks**

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Below, we provide a guide to all the data and code we referenced in the main paper (in sequential order), as well the supplemental materials. Please see **Study1\_VariableGuide**

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**Variable Keys for Data Files**

* Study1\_FactorAnalysis\_Data.csv
  + Key: Table S2 in Supplementary Information
* Study1\_TraitIndegreeAnalysis\_Data.csv Key
  + Key: See Table S2 in Supplementary Information
* Study2\_Data.csv
  + Key: Study2\_VariableGuide

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**Results**

* **Psychological traits**
  + Factor analysis results & **Figure 1**
    - Data: Study1\_FactorAnalysis\_Data.csv
    - Code: Study1\_FactorAnalysis\_Code.Rmd
      * Lines: 7-48
  + **Table S3:** Descriptive statistics for the four trait factors
    - Data: Study1\_TraitIndegreeAnalysis\_Data.csv
    - Code: Study1\_SupplementalTablesFigures.Rmd
      * Lines: 30-44
* **Network selectivity**
  + **Figure S1:** Average indegree
    - Data: Study1\_TraitIndegreeAnalysis\_Data.csv
    - Code: Study1\_SupplementalTablesFigures.Rmd
      * Lines: 579-631
  + **Table S4:** Correlation matrix for the 8 networks
    - Data: Study1\_TraitIndegreeAnalysis\_Data.csv
    - Code: Study1\_SupplementalTablesFigures.Rmd
      * Lines: 51-574
* **Perceptions of trust and fun**
  + **Figure S4:** Average ratings on the importance of trust and fun/excitement for each type of network
    - Data: Study2\_Data.csv
    - Code: Study2\_SPSSsyntax.docx
      * Lines: 12-18
    - Graph created in Microsoft Excel
* **Relationship between selectivity and network type**
  + **Paired sample t-tests**
    - Data: Study1\_TraitIndegreeAnalysis\_Data.csv
    - Code: Study1\_SPSSsyntax.docx
      * Lines: 5-26
* **Personality-centrality relationships across networks**
  + **Table 1, Table S5, Table S6, Table S7**
    - Data: Study1\_TraitIndegreeAnalysis\_Data.csv
    - Code: Study1\_TraitIndegreeAnalysis\_Code.Rmd
      * Lines: 30-299
  + **Figure 2:** Strength of the relationship between each trait and indegree for fun and trust networks
    - Created in Microsoft Excel from data in Table 1
  + **Figure 3** and **Figure S6:** Network maps of dorms showing indegree and traits of nodes
    - Folder with data: Study1\_GephiGraphs
      * BadNews\_D1.gephi
      * BadNews\_D2.gephi
      * BadNews\_D3.gephi
      * BadNews\_D4.gephi
      * FeelPositive\_D1.gephi
      * FeelPositive\_D2.gephi
      * FeelPositive\_D3.gephi
      * FeelPositive\_D4.gephi

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**Methods**

* **Stanford Dorm Study (Participants)**
  + **Table S1:** Demographics of the sample
    - Data: Not provided to protect participant identities
  + **Table S2:** A list of all trait questionnaires
    - Made manually in Microsoft Excel by authors
* **UIC Dorm Study (Trait Measures)**
  + **Table S8:** Standardized factor loadings for the initial five-factor model
    - Data: Study1\_FactorAnalysis\_Data.csv
    - Code: Study1\_FactorAnalysis\_Code.Rmd
      * Line: 7-32
  + **Table S9:** Standardized factor loadings for the initial four-factor model
    - Data: Study1\_FactorAnalysis\_Data.csv
    - Code: Study1\_FactorAnalysis\_Code.Rmd
      * Line: 7-31
  + **Table S10:** Standardized factor loadings for the final four-factor model
    - Data: Study1\_FactorAnalysis\_Data.csv
    - Code: Study1\_FactorAnalysis\_Code.Rmd
      * Lines: 7-44
  + **Figure S5:** Average ratings from Study 2 on the importance of other five characteristics
    - Data: Study2\_Data.csv
    - Code: Study2\_SPSSsyntax.docx
      * Lines: 12-18
    - Graph created in Microsoft Excel

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**Supplementary Information** (only Figures not listed above)

* **Figure S2**
  + Data: Study1\_TraitIndegreeAnalysis\_Data.csv
  + Code: Study1\_SupplementalTablesFigures.Rmd
    - Lines: 636-657
* **Figure S3**
  + Data: Study1\_TraitIndegreeAnalysis\_Data.csv
  + Code: Study1\_SupplementalTablesFigures.Rmd
    - Lines: 663-684
* **Figure S7**
  + Created in Microsoft Excel from data in Table 1