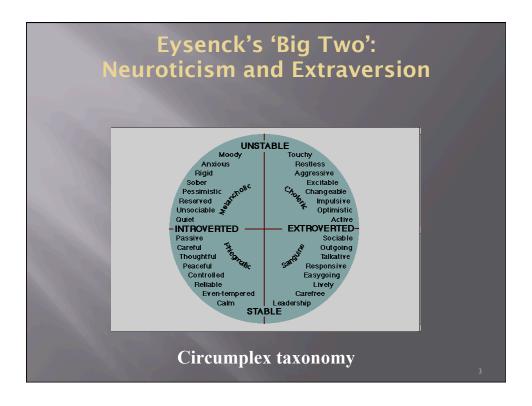


# Trait Taxonomies: Organizing Personality

- Theoretical approach: Hans Eysenck
  - Personality taxonomy should be rooted in biology
- 3 major traits of interest: "PEN"
  - Psychoticism (related to testosterone level)
  - Extraversion (related to physiological arousal)
  - Neuroticism (related to fluctuations in autonomic nervous system)

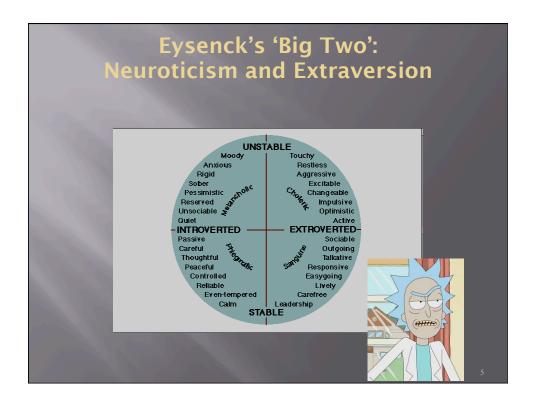


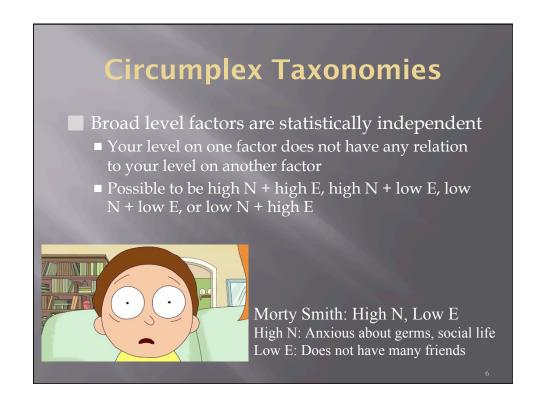
### **Circumplex Taxonomies**

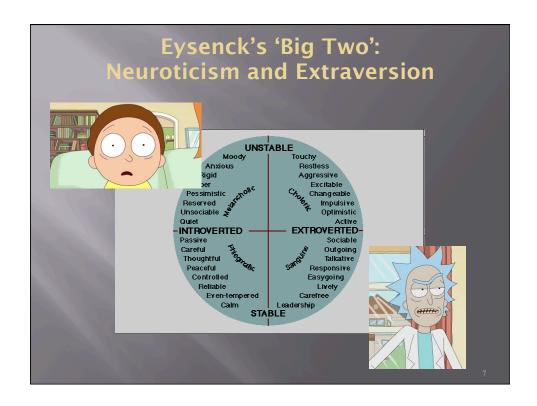
- Broad level factors are statistically independent
  - Your level on one factor does not have any relation to your level on another factor
  - Possible to be high N + high E, high N + low E, low N + low E, or low N + high E



Rick Sanchez: Low N, High E Low N: Not concerned about anything High E: High energy, party animal





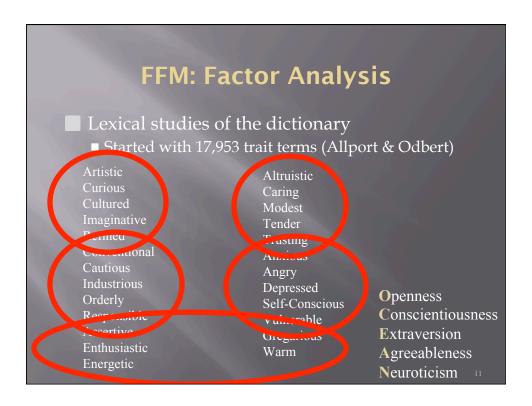


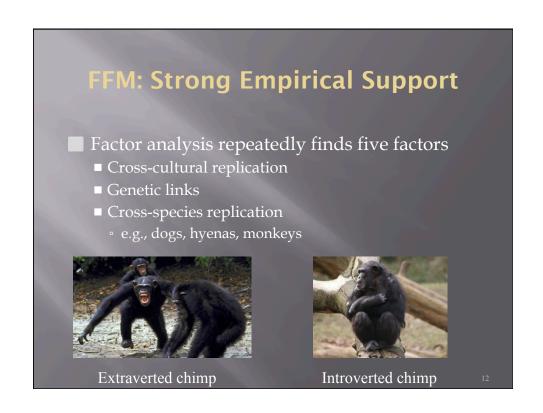
### **Problems with PEN**

- Not all-inclusive
  - Other empirical studies found more than 3 factors
- Other traits show heritability
  - e.g., conscientiousness
- Other taxonomies developed to address issues
  - Wiggins' theory of interpersonal traits
    - Agency + Communion
  - Cattell's 16
  - The Five Factor Model (FFM)

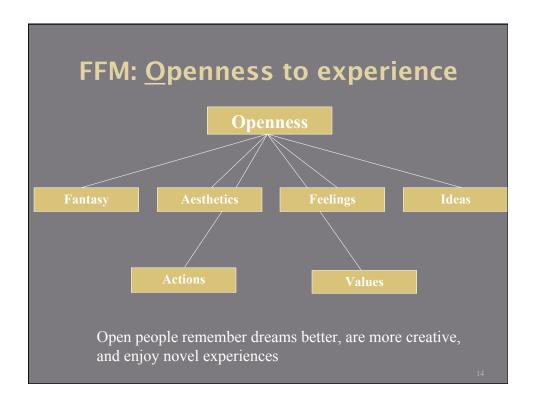


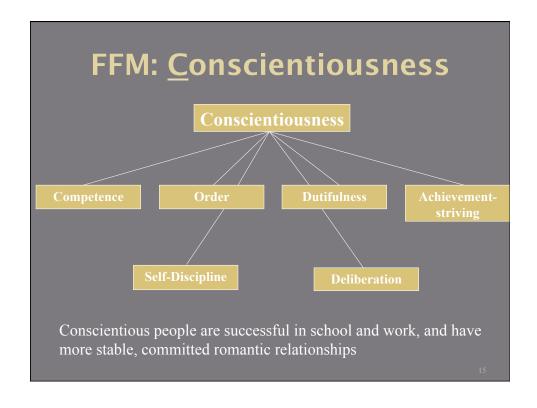
# The Five-Factor Model (FFM) or "Big 5" Openness Curious and unconventional Conscientiousness Ordered and persistent Extraversion Exuberant and sociable Agreeableness Caring and considerate Neuroticism Emotional and anxious Costa & McCrae, 1992; Goldberg, 1981

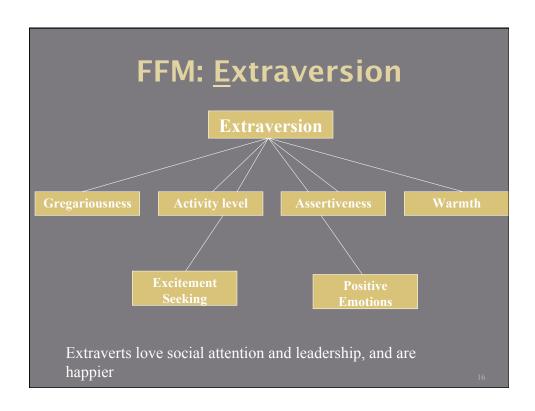


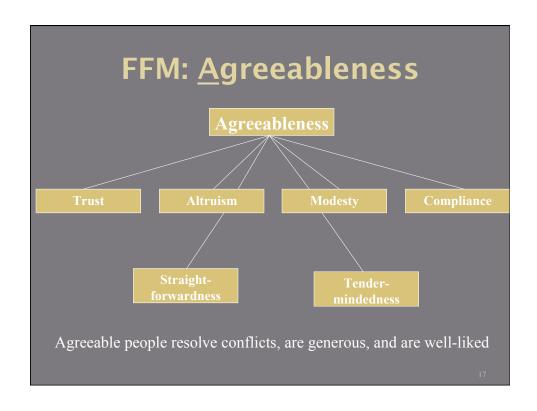


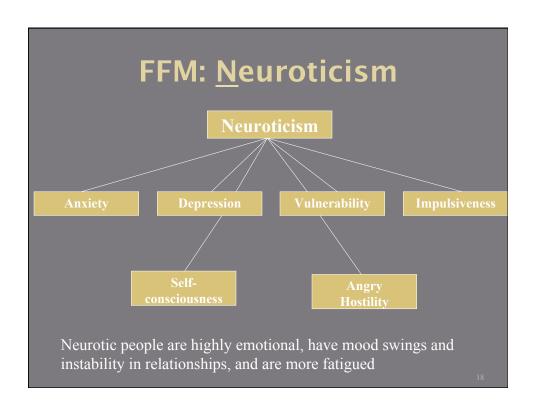
# FFM: Traits have Sub-Facets





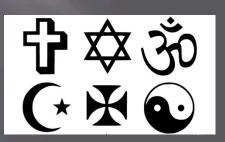






# What's Missing from Big 5?

- Physical attractiveness and promiscuity
- Positive evaluation and negative evaluation
  - "Big 7"
- Honesty/humility
  - HEXACO model
- Religiosity/spirituality



# **FFM and PEN**

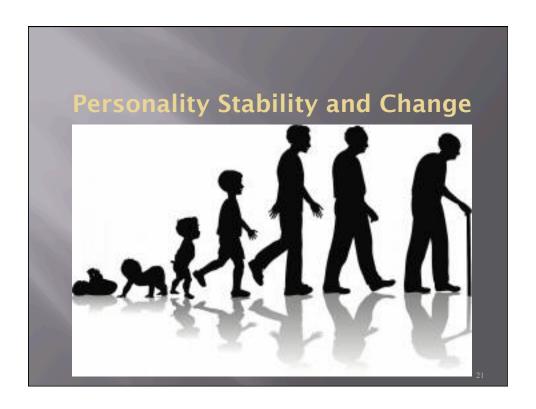
- Extraversion
  - PEN Extraversion
- Neuroticism
  - PEN Neuroticism
- Agreeableness
  - PEN Psychoticism (low)
- Conscientiousness
  - PEN Psychoticism (low)
- Openness to Experience
  - PEN?

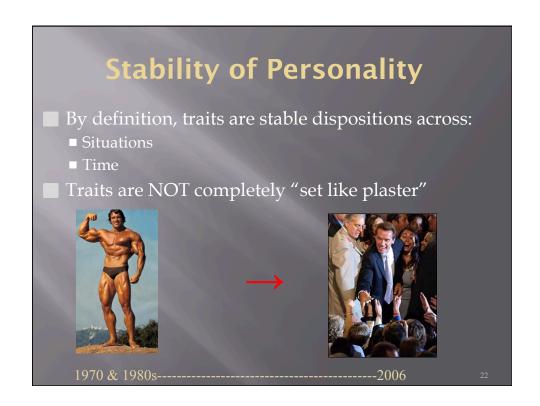












## Two Types of Change

- Mean-level change: In a population, people's average level of a trait at different ages
- Are people on average more extraverted when they are younger or older?

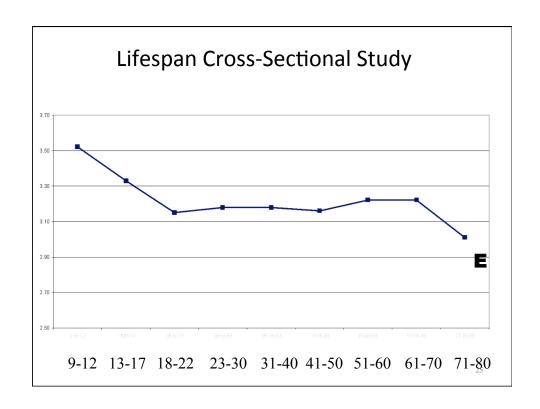


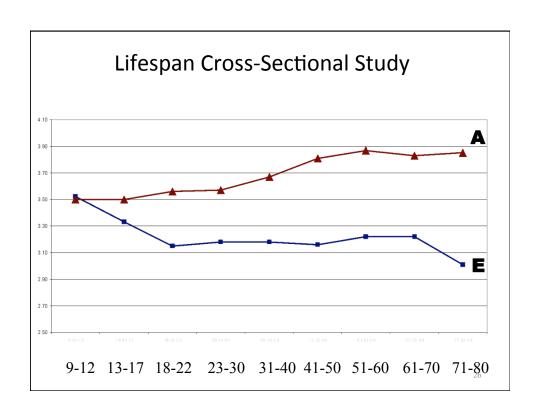
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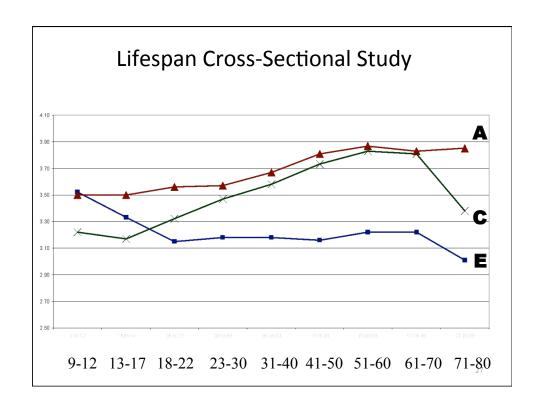
### Mean Level Change Across Lifespan

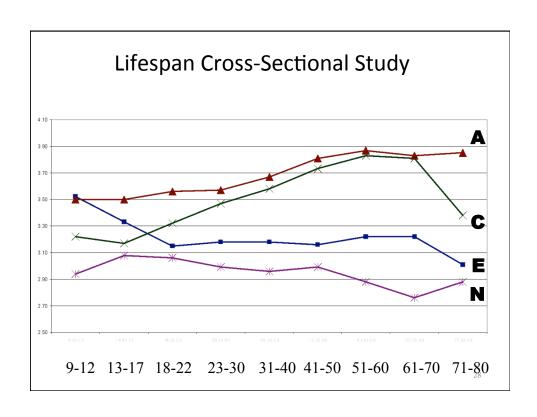
- Cross-sectional study
  - Sample of approximately 130,000 adults reported Big 5 personality traits
  - Representative of population in US and Canada
  - Childhood to old age

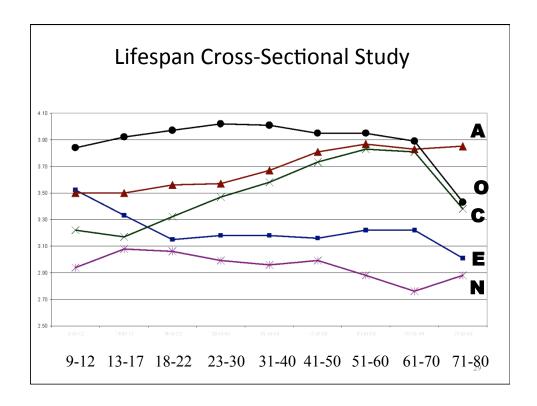
Srivastava, John, Gosling, & Potter, 2003











### Personality Change in College

■ Study compared personality scores at beginning and end of university among 270 students

### Two Assessments

- Year 1 (beginning of first year)
- Year 4 (end of senior year)
- Which traits do you think increased? Decreased?

Robins, Fraley, Roberts, & Trzesniewski, 2001

### **Longitudinal University Study**

Big Five Dimension	Change during university
Extraversion	0
Agreeableness	+
Conscientiousness	+
Openness	+
Neuroticism	1-11-1

<u>Maturity principle</u>: People tend to increase on traits that promote optimal behavior in adult social roles, and decrease on less socially desirable traits

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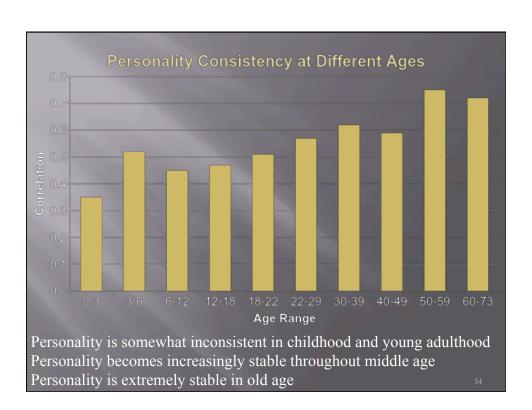
## Two Types of Change

- Mean-level change
- Rank-order stability
  - Consistency of individual differences on traits
  - Is the most extraverted child still the most extraverted adult?
  - Is the least agreeable college student still the least agreeable 40 year-old?

## Stability at Different Ages

- Meta-analysis
  - Compiled results from all studies ever done on personality change and development
  - Compared "personality consistency" across ages
    - At which ages was the correlation between personality at  $T_1$  and personality at  $T_2$  highest?
    - Correlation: Same group of people measured at two ages
      - e.g., 3 & 4, 23 & 29, 55 & 72
      - High correlation implies high personality consistency

Roberts & DelVecchio, 2000



# Two Types of Change

- Mean-level
- Rank-order
- Why does personality change or stay stable?

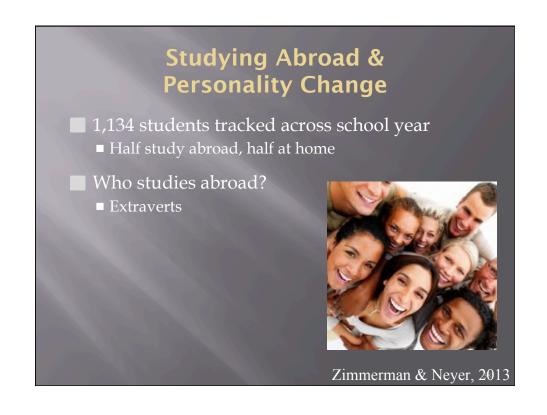
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### Why do We Change or Stay Stable?

- Person-environment transactions
  - People select situations based on their personalities
    - e.g., a conscientious individual enrolls in an honor's class
  - Situations in turn influence people's personalities
    - e.g., an honors student becomes more conscientious



# One Specific Life Event: Going Abroad for School How many of you have studied abroad? Why? Was it because of your personality? How did it change who you were? Study Abroad



# Studying Abroad & Personality Change

- 1,134 students tracked across school year
  - Half study abroad, half at home
- How does studying abroad change personality?
  - Increases in openness and agreeableness





Zimmerman & Neyer, 2013

### Bigger Picture: Personality → Life Events

Trait	High levels lead to	Low levels lead to
0		Becoming unemployed
С		Getting divorced
E	Moving in with partner	
A		Getting divorced
N	Living at home Getting divorced	Getting married

Sample of ~ 15,000 German adults, followed over four years

Specht, Egloff, & Schmuckle, 2011; 2012

### Bigger Picture Life Events → Personality Change

Trait	Events lead to increases	Events lead to decreases
0	Getting divorced	Getting married
С	Starting first job	Retiring
Е		Getting married
A	Having a baby	
N	Moving out of parent's home	

Sample of  $\sim 15,000$  German adults, followed over four years

Specht, Egloff, & Schmuckle, 2011; 2012

### **Hot Off the Presses!**

- Borghuis et al. (Oct. 2017) "Big Five Personality Stability, Change, and Codevelopment Across Adolescence and Early Adulthood.
  - N = 2230 Dutch adolescents, followed from ~age 12 to 22.
  - Participants interviewed annually in their homes about personality and relationship quality.
  - What kind of design is this? What is the IV? What is the DV?

### Hot of the Presses!

- Findings
  - 1 year rank-order stability of Big 5 traits increases up to mid-adolescence and then level out.
  - Mean-level changes moderated by gender
    - Males:+O, U shaped curve for C, stable E, +A, stable N
    - Females: -O, +C, U shaped curve for E and N, +A
  - Big individual differences in individual-trait change for E, C, and N.
  - Individual personality changes unrelated to friends and siblings.

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### **Stability and Change: Summary**

- Personality **changes** across the lifespan
  - Mean-level shifts
- Personality is **consistent** across the lifespan
  - Different levels of consistency emerge in childhood, adulthood, and old age
- Change and consistency is dictated in part by person-environment transactions
  - Who we are leads us to take on certain roles
  - Our roles in turn shape who we are

# Up Next ■ Trait approach (wrap-up) ■ Genetics (begin)

