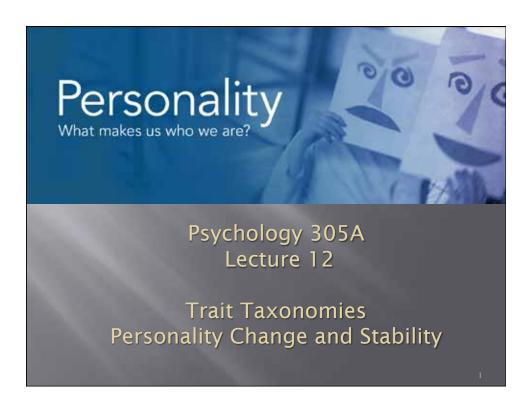
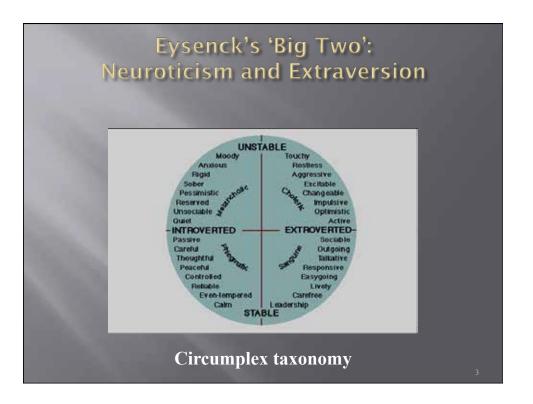
INTRODUCTION INTRODUCTION



# 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



Frank the Tank: Low N, High E Low N: Not concerned about anything High E: High energy, party animal





- 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



Cameron Frye: High N, Low E High N: Anxious about germs, social life Low E: Does not have many friends



### **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)

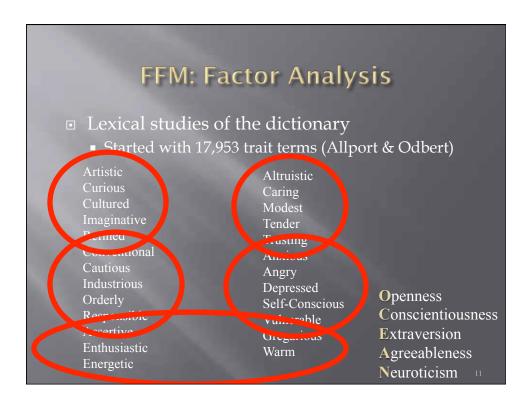


### The Five-Factor Model (FFM) or "Big 5"

- Openness
  - Curious and unconventional
- Conscientiousness
  - Ordered and persistent
- Extraversion
  - Exuberant and sociable
- <u>A</u>greeableness
  - Caring and considerate
- Neuroticism
  - Emotional and anxious

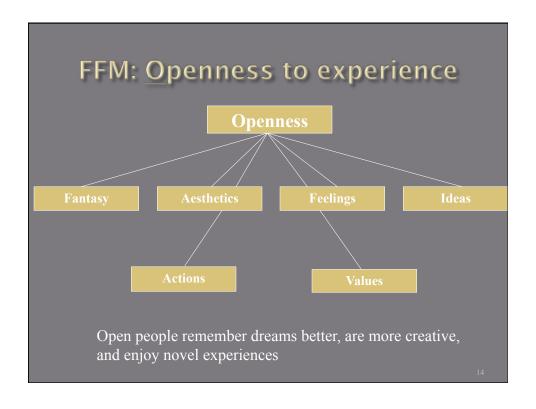
Costa & McCrae, 1992; Goldberg, 1981

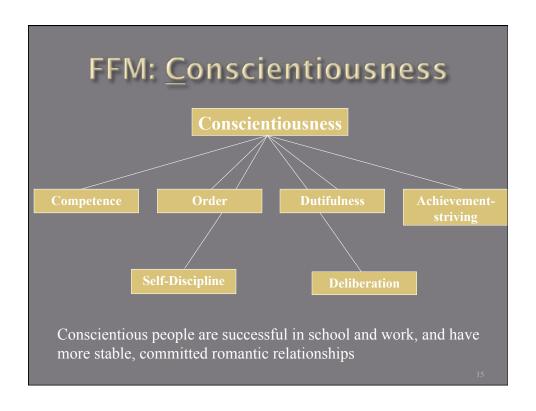
INTRODUCTION INTRODUCTION

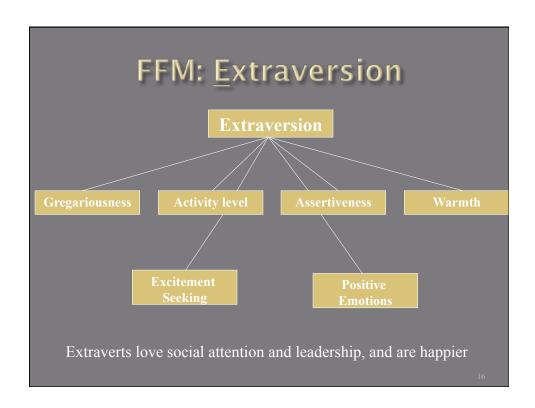


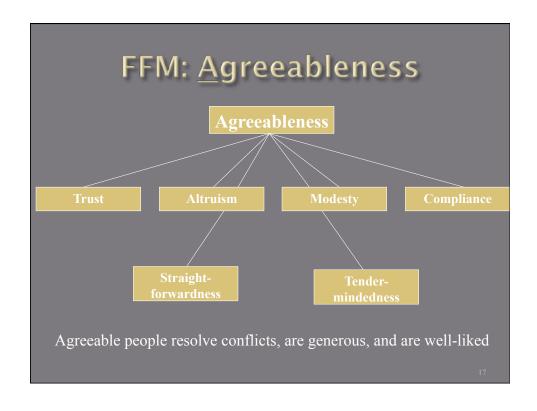


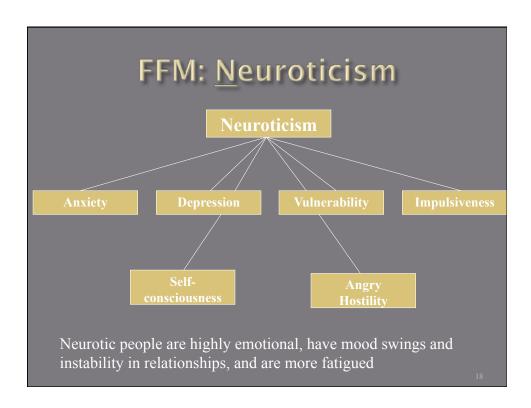
### FFM: Traits have Sub-Facets









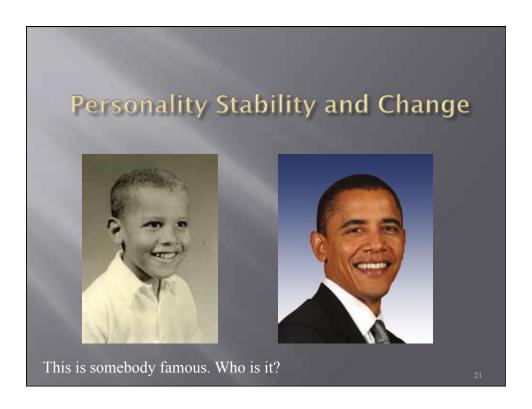


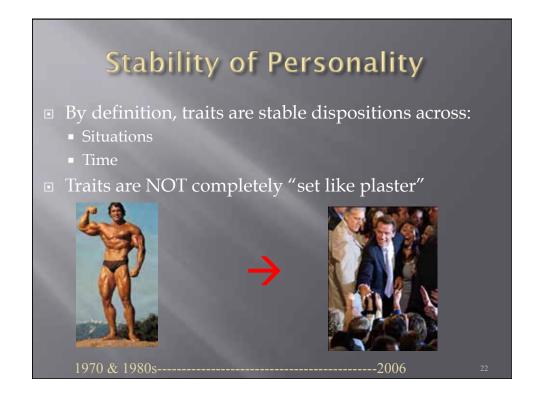
### What's Missing from Big 5?

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

19

# FFM and PEN Extraversion PEN Extraversion Neuroticism PEN Neuroticism PEN Pen Neuroticism Agreeableness PEN Psychoticism (low) Conscientiousness PEN Psychoticism (low) Openness to Experience PEN?





### Two Types of Change

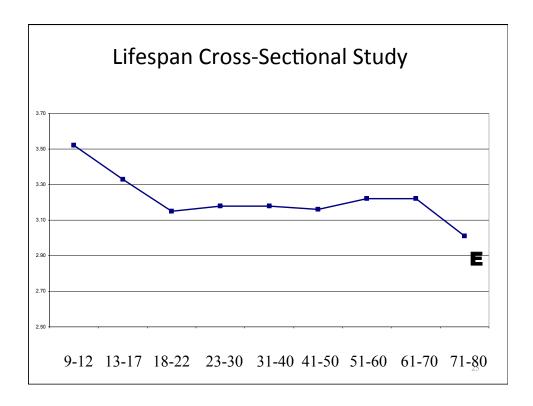
- Mean-level change: People's average level of a trait at different ages
- Are people on average more extraverted when they are younger or older?

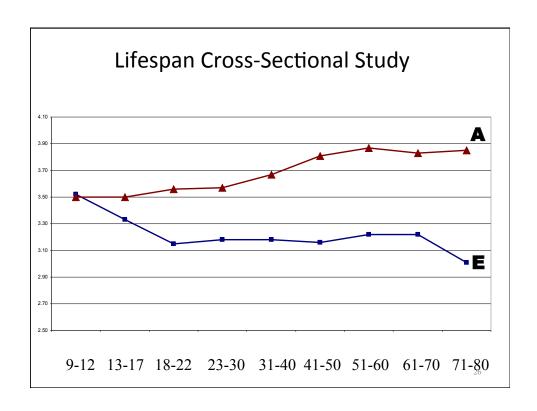
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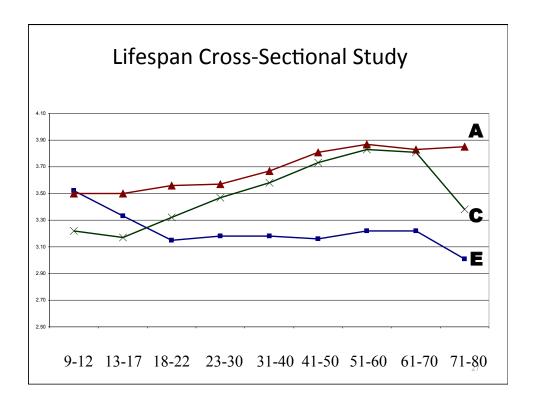
### Mean Level Change Across Lifespan

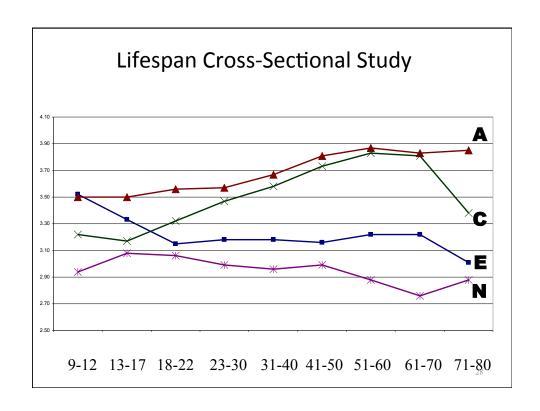
- Cross-sectional study
  - Sample of approximately 130,000 adults reported Big 5 personality traits
  - Representative of population in US and Canada
  - Childhood to old age

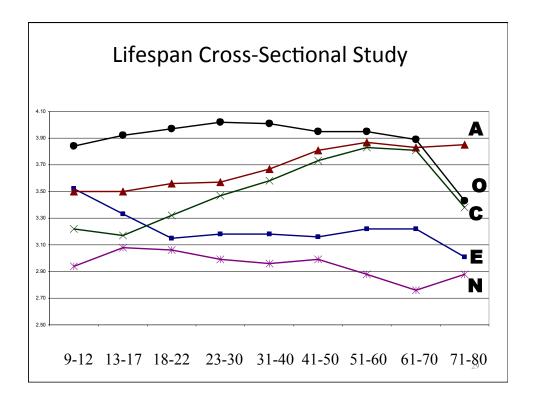
Srivastava, John, Gosling, & Potter, 2003











### 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

INTRODUCTION INTRODUCTION

### Longitudinal University Study

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

<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

31

### Two Types of Change

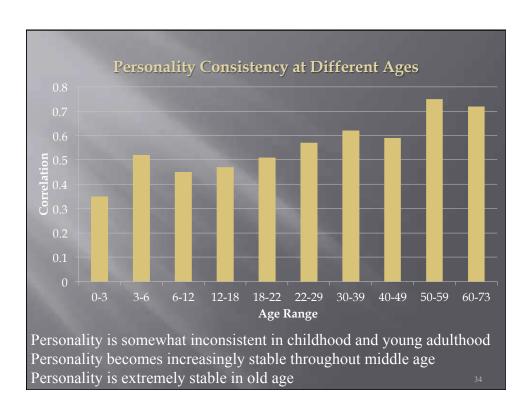
- Mean-level change
- Rank-order stability
  - Consistency of individual differences on traits
  - Is the most extraverted child still the most extraverted adult?
  - Is the least agreeable college student still the least agreeable 40 year-old?

### 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<sub>1</sub> and personality at T<sub>2</sub> 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?

35

### 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



# Personality $\rightarrow$ Life Events

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

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

Specht, Egloff, & Schmuckle, 2011; 2012

## Life Events $\rightarrow$ 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 ~ 15,000 German adults, followed over four years

Specht, Egloff, & Schmuckle, 2011; 2012

### 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

39

### **Next Class**

- Trait approach (wrap-up)
- Genetics (begin)

