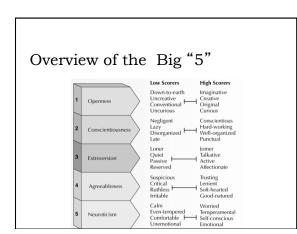
CHAPTER 8

Trait Theory: The Five-Factor Model & Applications and Evaluation of Trait Approaches

The "Big 5"

- Modern personality research argues for 5 basic personality traits (OCEAN)
 - <u>Openness</u>: whether a person is open to new experiences
 - <u>Conscientiousness</u>: whether a person is disciplined and responsible
 - <u>Extroversion</u>: whether a person is sociable, outgoing and affectionate

 - <u>Agreeableness</u>: whether a person is cooperative, trusting, and helpful
 - <u>Neuroticism</u>: whether a person is unstable and prone to insecurity



Extroversion

• Extroverted people

• Energetic,

- Introverted people
- Enthusiastic, • Dominant,
- Sociable
- Talkative

• Shy • Retiring

- Submissive
- Quiet

Agreeableness

- High
- Agreeableness
- Friendly
- Cooperative
- Trusting
- Warm

Low Agreeableness

- Cold
 - Quarrelsome
- Unkind

Conscientious

- Lack of impulsivity
- Impulsive
- Cautious
- Dependable
- Organized
- Responsible
- Careless
- Disorderly
- Undependable

Neuroticism

- Emotional Instability • Nervous
- Emotionally stable

• Contented

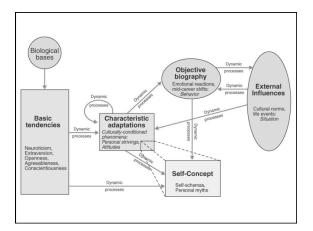
- Calm
- High-strung
- Tense
- Worrying

Openness

- Culture
- Imaginative
- Witty
- Original
- Artistic
- Low on culture
- Shallow
- Plain
- Simple

PROPOSED THEORETICAL MODEL FOR THE BIG FIVE

- McCrae and Costa's five-factor theory / model
- The five traits are more than mere descriptions of ways that people differ
 - Each trait is a universal psychological structure that everyone has in varying amounts that causally influence people's psychological development
 - Factors have a biological basis
 - Differences linked to the Big Five are determined by genetic influences on neural structures and brain chemistry
 - The five traits are not influenced by the environment; strongest "nature" position possible





PROPOSED THEORETICAL MODEL FOR THE BIG FIVE

- McCrae and Costa's five-factor theory / model
- Problematic issues:
- 1. How to link personality structures to personality processes
 - McCrae and Costa: details to be filled in by other theoretical approaches to personality
 - Not clear how these details could be filled in because the biological and psychological mechanisms associated with trait structures are unspecified

PROPOSED THEORETICAL MODEL FOR THE BIG FIVE

- McCrae and Costa's five-factor theory / model
- Problematic issues:
- 2. Claim that traits are not affected by social factors
 - Problem: research findings contradict this theoretical idea
 - Twenge (2002) examined mean-level scores on anxiety and neuroticism scales published in the 50s through 90s and found that sociocultural changes were associated with higher levels of anxiety
 - Found that extraversion also increased

PROPOSED THEORETICAL MODEL FOR THE BIG FIVE

- McCrae and Costa's five-factor theory / model
- Problematic issues:
- Five-factor theory claims that everyone has all five factors; factors are analogous to bodily organs which might vary in size
 - This finding does not demonstrate that *each and every person* possesses each of the factors

MAYBE WE MISSED ONE?: THE SIX-FACTOR MODEL

Table 8.3 Adjectives defining the high and low poles of a 6th factor of individual differences identified across a range of languages

Language	"Low" Pole of Factor	"High" Pole of Factor		
Dutch	sincere, loyal/faithful	cunning, smug		
French	true/genuine, sincere	thoughtless, mean		
German	honest, sincere	boastful, arrogant		
Hungarian	veracious, just	pretending, haughty		
Italian	honest, sincere	disloyal, megalomaniac		
Korean	truthful, frank	flattering, pretentious		
Polish	helpful, unselfish	egoistic, envious		

SOURCE: Ashton et al., 2004.

Personality Across Cultures

- A cross-cultural investigation of 50 cultures revealed same five factors in all cultures.
- However, the NEO-PI-R was created using English terms.
 - Thus, it may not capture culture-specific personality traits.
- Indeed, investigations in a number of cultures including Spain, Greece, the Philippines, and China have yielded additional factors.

Biological Foundations of Personality Traits

- ▲The brains of extreme introverts are overaroused, and the brains of extreme extroverts are underaroused (Eysenck, 1967)
- ▲On a great number of characteristics, MZ twins are more similar than are DZ twins

	larity in Ident Five Traits	ical and Fratern	al Twins in Pers	onality Assessed U	lsing the
BIG FIVE TRAIT SELF-REPORT CORRELATION PEER-RATING CORRELATION					
	Identical	Fraternal	Identical	Fraternal	
Extraversion	.56	.28	.40	.17	
Neuroticism	.53	.13	.43	03	
Agreeableness	.42	.19	.32	.18	
Conscientiousness	.54	.18	.43	.18	
Openness to experience*	.54	.35	.48	.31	
*Referred to as "Cu Source: Angleitner,	lture" by thes Riemann, & S	e researchers. 19 Strelau,	997.		

Stability of Personality Traits

- •Stability of personality is often assessed by means of retest correlations.
- Over a short time (weeks), low retest correlations may reflect measurement error.
- However, most personality measures show high retest correlations over short periods of time.
- The magnitude of retest correlations over longer periods (years) shows how stable personality traits are.

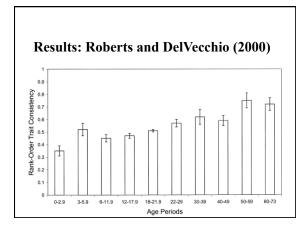
Meta-analytic study (Roberts and DelVecchio, 2000)

•<u>Meta-Analysis</u>: A meta-analysis combines results of several original studies.

•Original Studies:

Method. Assessed personality traits repeatedly over longer time intervals (at least one year apart)

•<u>Data in the meta-analysis</u>: 3,217 correlation coefficients from 152 longitudinal studies of personality.



Are all traits equally stable?

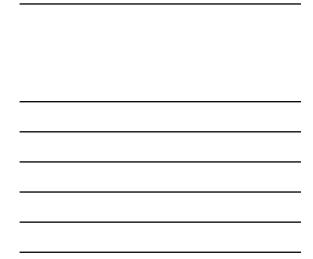
- The authors also examined whether different personality traits have different stability.
- For example, neuroticism may be stable but extraversion is not.
- The authors found fairly similar stability of different personality dimensions (extraversion, conscientiousness, etc.).

Study of personality during adolescence (McCrae et al., 2001)

- Study 1 examined the retestcorrelations of the Big Five for 230 gifted students (132 boys, 98 girls).
- A measure of the Big Five was administered at age 10-13.
- The same measure was administered 4 years later.

Retest-Co	orrelations (Ra	nk-Order-Stabilit
Scale	Boys	Girls
N	.36	.30
E	.39	.45
0	.45	.39
A	.31	.34
С	.49	.63

Comparison of the Results to Meta-Analysis



Conclusions of studies

•Traits become increasingly stable with age.

• Traits do not reach a plateau at age 30.

•Consistency peaks after age 50 at a level not high enough to infer a complete lack of change in personality traits.

• The stability of traits is fairly similar across different traits.

Conclusions of studies (cont.)

• Although stability is quite high after adolescence, it is not perfect.

• Personality psychologists have been quite unsuccessful in finding factors that produce systematic changes in personality.

• For example, marriage has no influence on personality.

• However, a recent study demonstrated that life events can influence personality.

Study on influence of life events (Vaidya, et. al, 2002)

- Participants. 392 University of Iowa students.
- <u>Method</u>. The students completed a personality measure at the beginning of college.
- 2 ½ years later they completed questionnaires about their personality and life experiences during the past 2 ½ years
- Life-experiences were classified as positive (dated someone, started new job) or negative (romantic break up, got fired from job).

Results	(Vaidya,	et.	al,	2002)
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Personality at Time 2	Ν	Е
Positive Events	05	.12*
Negative Events	.13*	.02 _

These coefficients do not represent correlations, but they can be interpreted in a similar way. The results suggest that positive events increase extraversion and negative events increase neuroticism.

Stability of Personality Traits

- ▲Little stability of behavior across situations
- ▲This makes it difficult to predict behavior from personality traits
- There is good evidence for both stability of some traits and change in some traits over time

▲Stability over time

Predicting Behavior from Personality Traits

- ▲Personality traits interact with other traits as well as with characteristics of situations
- ▲Situational consistency is influenced by the importance of a trait for the person
- ▲High self-monitors act differently in different situations, while low self-monitors do not.

APPLICATIONS OF THE BIG FIVE MODEL

- In the workplace
 - Research suggest that the five-factor model is useful in predicting job performance
 - Conscientiousness is related to performance across a variety of jobs and tasks
 - Yet some writers caution that personality traits beyond those in the big Five are important to predictions of workplace performance
 - Others find weak results

APPLICATIONS OF THE BIG FIVE MODEL

- Health
 - More conscientious persons may live longer
 - Adults who were conscientious as children lived longer and were about 30% less likely to die in any given year, even when ruling out environmental variables
 - What explains the relationship?
 - Conscientious individuals took fewer risks and were less likely to smoke and drink heavily

Evaluating Trait Theory

- Trait theory, especially the Big 5 model, is able to describe personality
 - Cross-cultural human studies find good
 - agreement for the Big 5 model in many cultures • Even primate personality can be accurately
 - described by the big 5 model system
- Problems with trait theory include:
 - Lack of explanation as to WHY traits develop
 - Treats personality process as a secondary issue to be filled in by other theories.