



Personality characteristics:

Individual differences in happiness, arousal, and control

Three motivational

principles Happiness

- Arousal
- Control

Reading: Reeve (2009) Ch 13

- Personality characteristics
- Extraversion
- Neuroticism · Sensation seeking Affect intensity

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2

(pp. 367-390)

• Perceived control Desire for control

Outline – Individual Differences in Happiness, Arousal, and Control

- Happiness
- Control
- Extraversion & happiness
- Neuroticism & suffering
- Extraverts & neurotics
- Arousal

 - Insufficient stimulation & underarousal

- Perceived control
- Desire for control

- Performance & emotion
- Excessive stimulation & overarousal
- Credibility of the inverted-U hypothesis
- Sensation seeking
- Affect intensity
- Based on Reeve (2009, p. 367)

- - 3

Individual differences in happiness, arousal, & control

Why do different people have different motivational and emotional states even in the same situation?









Personality types vs. traits

- Relatively few people are at either end of a personality characteristic (most people are mid-way)
- Beware of typologies' oversimplification

For example:

Focus on extraversion (trait) rather extraverts (typology).

Based on Reeve (2009, pp. 368-369)

The big 5 personality traits

7

8

9

- 5 superordinate traits are well supported by wide variety of research.
- Commonly measured by "NEO" (Costa & McCrae, 1980s) or IPIP
- Not everyone agrees on the naming of these traits.

The big 5 personality traits

The Big 5 according to the "NEO":

- Neuroticism
- Extraversion
- Openness to Experience
- Agreeableness
- Conscientiousness

The big 5 personality traits

Trait Dimension	Description	
Neuroticism (Emotional Stability)	Calm vs anxious Secure vs insecure Self-satisfied vs self-pitying	
Extraversion	Sociable vs retiring Fun-loving vs sober Affectionate vs reserved	
Openness	Imaginative vs practical Preference for variety vs routine Independent vs conforming	
Agreeableness	Soft-hearted vs ruthless Trusting vs suspicious Helpful vs uncooperative	
Conscientiousness	Organised vs disorganised Careful vs careless Disciplined vs impulsive	
Source: Adapted from N	icCrae & Costa (1986, p. 1002).	10

The big 5 personality traits: Labels

1	2	3	4	5	6 (Authors)
Emotional control	Social adaptability	Inquiring intellect	Conformity	Will to achieve	Fiske (1949)
Emotionality	Surgency	Culture	Agreeableness	Conscientious -ness	Norman (1963)
Emotionality	Assertiveness	Intelligence	Likeability	Responsibility	Orgatta (1964)
Neuroticism	Extraversion	Intellect	Friendly compliance	Will to achieve	Digman (1990)
Neuroticism	Extraversion	Openness to experience	Agreeableness	Conscientious -ness	Costa & McCrae (1985)
AFFECT	POWER	INTELLECT	LOVE	WORK	Peabody & Goldberg (1989)

Personality traits \rightarrow motivation, emotion, and behaviour

Personality traits:

- cause people to react differently to different situations, e.g., positively or negatively
- cause people to approach and avoid different situations
- determine choice and alteration of situations, e.g., approach, avoid, or modify situation

Based on Deckers (2010, pp. 210-212) **12**



Happiness and unhappiness are related, but separate, dimensions

















Happiness economics

- Quantitative study of happiness, positive and negative affect, well-being, quality of life, life satisfaction and related concepts, typically combining economics with other fields such as psychology and sociology.
- The field has grown substantially since the late 20th century, for example by the development of methods, surveys and indices to measure happiness and related concepts.
- e.g., World Database of Happiness http://worlddatabaseofhappiness.eur.nl/ Based on http://en.wikipedia.org/wiki/Happiness_economics 19



Easterlin paradox (1974)

- Within a given country people with higher incomes are more likely to report being happy.
- However, in international comparisons, the average reported level of happiness does not vary much with national income per person, at least for countries with income sufficient to meet basic needs.



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Natural happiness and synthetic happiness

- Natural happiness: Occurs when you get what you want.
- Synthetic happiness: Occurs when you accept that you didn't get what you want.
 - Synthetic happiness is as real as natural happiness
- e.g., in dating, you look to get what you want, in marriage, you find a way to like what you've got.

Based on http://en.wikipedia.org/wiki/Happiness_economics 23

Why are we happy?

Why are we happy? (Dan Gilbert, 2004, 21:20, TED talk) http://www.ted.com/talks/dan_gilbert_asks_why_are_we_happy.html

Arousal

25

Arousal

- A person's arousal level is mostly a function of how stimulating the environment is
- People engage in behaviour to ↑ or ↓ their level of arousal:
 - When underaroused, people seek out opportunities to their arousal levels, because
 - 1s in environmental stimulation are pleasurable and enhance performance whereas
 - \downarrow s are aversive and undermine performance
 - When overaroused, people seek out opportunities to ↓ their arousal levels, because
 - \blacksquare \uparrow s in environmental stimulation are aversive and undermine performance whereas
 - ↓s are pleasurable and enhance performance

Based on Reeve (2009, p. 374)

26



Source: From "Drive and the C. N. S.—Conceptual Nervous System," by D. O. Hebb, 1955, Psychological Review, 62, pp. 245–254,

Based on Reeve (2009, pp. Figure 13.3)



Based on http://commons.wikimedia.org/wiki/File:OriginalYerkesDodson.JPG



Based on Reeve (2009, pp. 375-377)

29

Insufficient stimulation & underarousal

Heron's sensory deprivation study The brain and nervous system prefer a continual and moderate level of arousal generated by environmental stimulation.







Sensory isolation tanks

- Sensory isolation tanks provide minimal external stimulation
- Relaxing
- Restorative
 Facilitate higher

consciousness



"Over the last 25 years I have exhausted numerous addictions and relationships in pursuit of the very sensation - or state of being actually - that the floatation tank gave me in one hour. No drug-induced euphoria, no sexual or romantic high, no nicotine or food fix, nor any spiritual venture ever brought me as close to my desired destination as the float tank did. This illusively defined 'destination' became much clearer to me after floating in the tank. It's a truly remarkable and freeing experience." 32

Credibility of the inverted-U hypothesis

- Neiss's criticism
 - Descriptive rather than explanatory
 - Does not apply to everyday affairs in which arousal level changes relatively little.
- Revelle, Amaral, & Turriff's experiment (1976)
 - The inverted-U hypothesis applies nicely to everyday sources of stimulation – e.g., caffeine and time pressure.

Sensation seeking		
Personality characteristic related to arousal and reactivity.		
Related to the extent to which a person's central nervous system (brain and spinal cord) requires change and variability.		
Based on Reeve (2009, p. 379)	34	

Sensation seeking

Defined as "the seeking of varied, novel, complex, and intense sensations and experiences, and the willingness to take physical, social, legal, and financial risks for the sake of such experiences"

(Zuckerman, 1994)

Based on Reeve (2009, p. 379)

35

Sensation seeking & sensory deprivation



- Zuckerman was a graduate student in sensory deprivation studies.
- Zuckerman interested in subjects who:
 - hated deprivation
 - couldn't tolerate low levels of stimulation
 - wanted new experiences

Sensation seeking

- Sensation seeking determines how a person reacts to a situation or event.
- Sensation seeking determines the situations and activities a person chooses.



Who was the sensation seeker?





Steve Irwin

Princess Diana

Sensation seekers

- Need higher levels of stimulation to maintain positive mood.
 - When stimulation falls \rightarrow mood slumps.
 - Push to keep stimulation levels as high as possible.
 - Enjoy more intense sensations and experiences
- Are more likely to:
 - Search for novel experiences
 - Prefer unusual stimuli and situations
 - Choose things that are out of the ordinary
 - See sensations and experiences being worth physical, social, legal, or financial risks
 - Engage in risky sports and activities
 - Be more more susceptible to boredom



Sensation seekers – Biological basis

- SSs have ↓ levels of monoamine oxidase (MAO)
- SSs tend to have relatively ↑ levels of dopamine → their biochemistry favours approach over inhibition
- SSs tend to have relatively ↓ levels of serotonin → their biochemistry fails to inhibit them from risks and new experiences

Based on Reeve (2009, pp. 379-381)

40

Sensation Seeking Scale (SSS; Zuckerman)

- Thrill and adventure seeking (action gamblers)
- Seek experiences outside the conventional lifestyle (travel, friends, art)
- Disinhibition: release of inhibitions, escape the pressures of daily life. (escape gamblers)
- Low tolerance for boredom, repetition and sameness.

41

SSS predictor of addiction

Sensation seeking is correlated with:

- Alcoholism
- Gambling



Perhaps common in all addictions











Figure 13.6 Affective reactions to good and bad events by affect-intense and affect-stable individuals

Based on Reeve (2009, p. 383)

Control		
Perceived Control	Desire for Control	
Differences in people's pre-performance expectancies of possessing the needed capacity to produce positive outcomes.	The extent to which individuals are motivated to establish control over the events in their lives.	









Desire for control esponse nallenge React with High DC vs. Low DC Select harder asks; set goal Work at difficult tasks longer More likley to success to self and failure to unstable source more realistically High DC benefit Higher goals are achieved Difficult tasks are completed Difficult tasks are completd Motivation level remains high High DC liability May atter May develop performance-nhibiting May deve Ilusion of control May invest too much effort lon a goals to difficult

Figure 13.7 Influence of Desire for Control during Achievement-Related Performance (Burger, 1985) Based on Reeve (2009, p. 387) 50

Summary

- Two personality characteristics related to happiness:
 - Extraversion \rightarrow BAS \rightarrow Happiness
 - Neuroticism \rightarrow BIS \rightarrow Unhappiness
- Two personality characteristics related to arousal:
 - Sensation seeking
 - Affect intensity
- Two personality characteristics relate to control:
 - Perceived control
 - Desire for control

Based on Reeve (2009, pp. 388-389)

Upcoming lectures Individual differences Unconscious motivation (Ch 14) Growth psychology (Ch 15) Summary & conclusion (Ch 16)	
52	
References	
 Deckers, L. (2010). <i>Motivation: Biological, psychological, and environmental</i> (3rd ed.). Boston, USA: Allyn & Bacon. Reeve, J. (2009). <i>Understanding motivation and emotion</i> (5th ed.). Hoboken, NJ: Wiley. 	

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54