



# Personality characteristics:

Individual differences in happiness, arousal, and control

**Reading:** 

**Reeve (2009)** 

# Three motivational

principles Happiness

- Arousal Control

### Personality characteristics

- Extraversion
- Neuroticism · Sensation seeking
- Ch 13

(pp. 367-390)

 Affect intensity • Perceived control Desire for control

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# **Outline – Individual Differences in** Happiness, Arousal, and Control

- Happiness
- Control
- Extraversion & happiness
- Neuroticism & suffering
- Extraverts & neurotics
- Arousal
  - Performance & emotion
  - Insufficient stimulation & underarousal
  - Excessive stimulation & overarousal
  - Credibility of the inverted-U hypothesis
  - Sensation seeking
  - Affect intensity

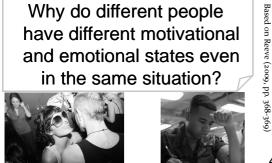
Based on Reeve (2009, p. 367)

Perceived control

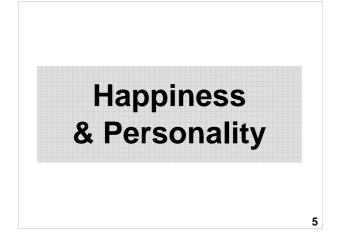
- Desire for control

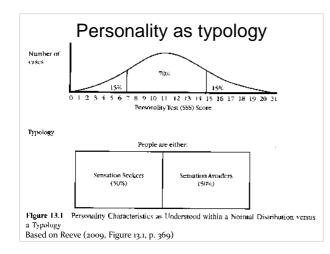
# Individual differences in happiness, arousal, & control

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" (as a trait) rather "introverts vs. extraverts" (as a typology).

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

# The big 5 personality traits

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- The "Big 5" superordinate traits are well supported by a wide variety of research.
- Measures
  - -NEO (Costa & McCrae, 1980s)
  - -IPIP freely available
- Some disagreement about the naming of these traits.

# 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)

# The big 5 personality traits

The Big 5 according to Costa and McCrae (1985):

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

Tip: Remember as NEOAC rather than OCEAN because it conveys order of variance explained. 10

# The big 5 personality traits

Description

Secure vs insecure Self-satisfied vs self-pitying

Sociable vs retiring

### Trait

# Calm vs anxious

Neuroticism (vs. Emotional stability)

Extraversion (vs. Introversion)

Openness (vs. Closedness)

Agreeableness

(vs. Disagreeableness)

(vs. Carelessness)

Adapted from McCrae & Costa (1986, p. 1002)

Fun-loving vs sober Affectionate vs reserved Imaginative vs practical Preference for variety vs routine Independent vs conforming Soft-hearted vs ruthless Trusting vs suspicious Helpful vs uncooperative Conscientiousness Organised vs disorganised Careful vs careless Disciplined vs impulsive

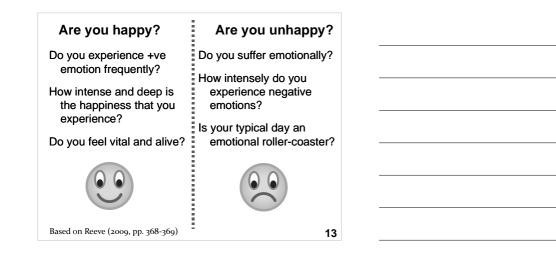
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# Personality traits $\rightarrow$ motivation, emotion, and behaviour

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

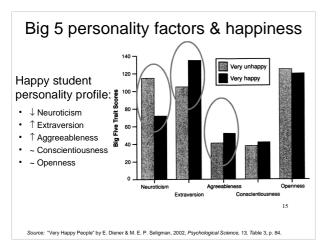
Based on Deckers (2010, pp. 210-212) 12

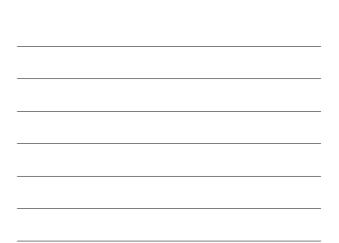


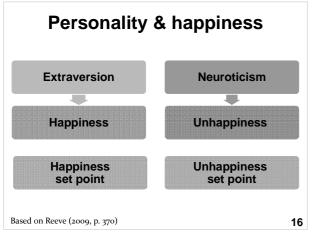
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# Happiness and unhappiness are related, but separate, dimensions

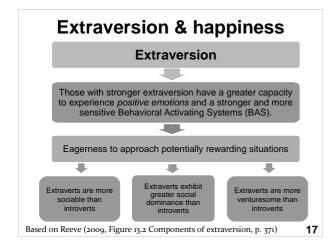














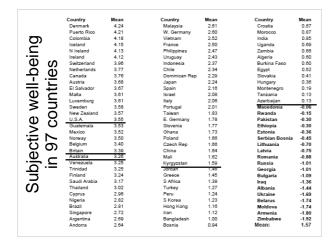
# Neuroticism & happiness Neuroticism Nose with stronger neuroticism tend to experience more frequent and intense negative emotions and a stronger and more sensitive Behavioral Inhibition Systems (BIS). Bagerness to avoid potentially punishing situations Greater avoidance behaviour and emotional distress (than emotionally stable individuals)

Based on Reeve (2009, pp. 372-373)

# **Happiness economics**

- HE = Quantitative study of happiness, positive and negative affect, well-being, quality of life, life satisfaction etc., typically combining economics with other fields such as psychology and sociology.
- HE 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.

Based on http://en.wikipedia.org/wiki/Happiness\_economics 21

# Happy Planet Index

- Environmental efficiency of supporting well-being (Ratio of happiness to resource consumption (sustainability))
- Countries shaded by their position in the HPI (2006)
- Highest-ranked countries are bright green
- · Lowest are brown



# 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.

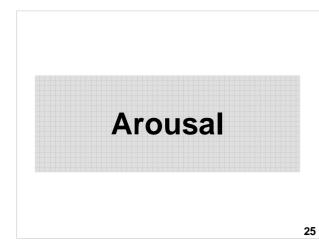
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# Why are we happy? Dan Gilbert



Video (21 mins 20 secs): http://www.ted.com/talks/dan\_gilbert\_asks\_why\_are\_we\_happy.html

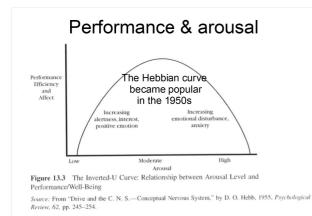


# Arousal

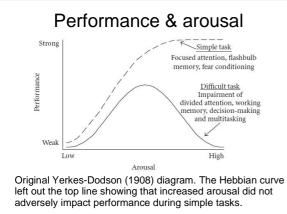
- Arousal levels mostly reflect how stimulating the environment is
- People engage in behaviour to ↑ or ↓ their level of arousal:
  - When underaroused, people seek out opportunities to their arousal levels, because
    - ↑s in environmental stimulation are pleasurable and enhance performance whereas
    - $\downarrow$ s are aversive and undermine performance
  - When overaroused, people seek out opportunities to ↓ their arousal levels, because
    - ↑s in environmental stimulation are aversive and undermine performance whereas
    - ↓s are pleasurable and enhance performance

Based on Reeve (2009, p. 374)

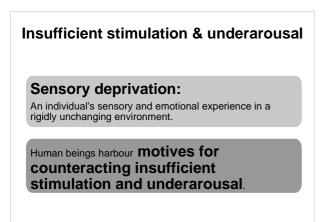
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Based on Reeve (2009, pp. Figure 13.3)



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

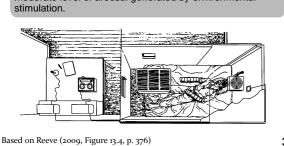


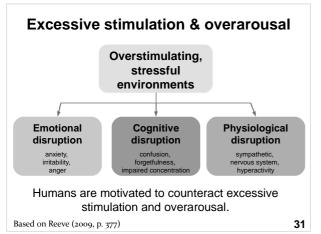
Based on Reeve (2009, pp. 375-377)

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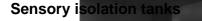
### Insufficient stimulation & underarousal

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









- Sensory isolation tanks minimise 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.

Based on Reeve (2009, pp. 377-379)

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)

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# Sensation seeking & sensory deprivation



- Zuckerman was a graduate student in sensory deprivation studies.
- Became 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 higher in sensation seeking?





Steve Irwin

Princess Diana

# **Sensation seeking**

- Those high in sensation seeking need higher levels of stimulation to maintain positive mood.
  - $\blacksquare$  when stimulation falls  $\rightarrow$  mood slumps.
  - push to keep stimulation levels as high as possible.
  - enjoy more intense sensations and experiences
  - 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
  - are susceptible to boredom



# Sensation seekers – Biological basis

- SSs have vidase (MAO) (enzyme that metabolises monoamines, such as serotonin, norepinephrine, and dopamine)
- 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)

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# 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.

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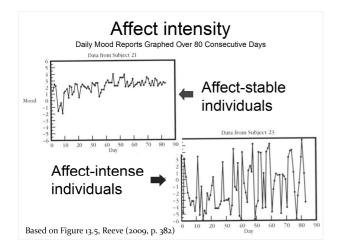
# SS and addiction

Sensation seeking is correlated with:

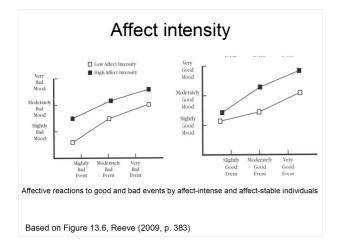
- Alcoholism
- Gambling



Perhaps SS is common in all addictions

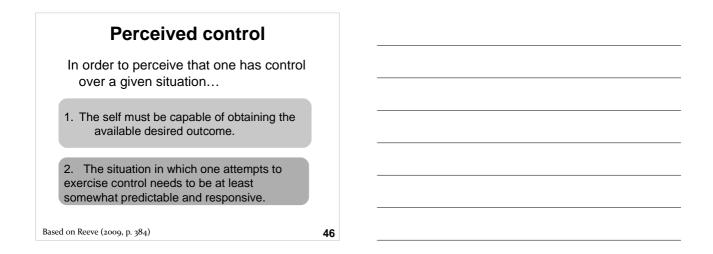


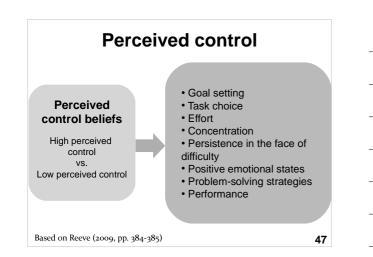


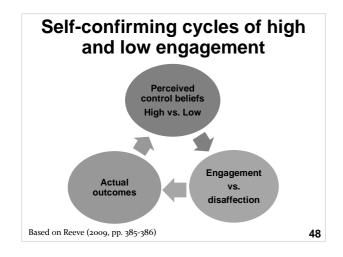




Control			
Perceived control	Desire for control		
The extent to which an individual believes that s/he possesses the capacity needed to produce positive outcomes.	The extent to which individuals are motivated to establish control over the events in their lives.		

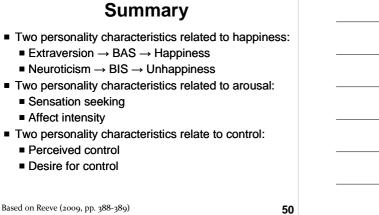


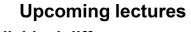




Desire for co	ontrol
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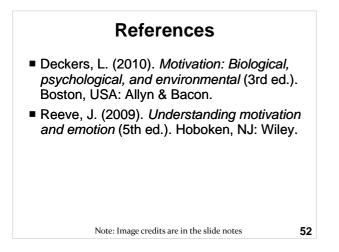
	Aspiration level	Response to challenge	Persistence	Attributions for success and failure	
High DC vs. Low DC	Select harder tasks; set goals more realistically	React with greater effort	Work at difficult tasks longer	More likley to attribute success to self and failure to unstable source	
High DC benefit	Higher goals are achieved	Difficult tasks are completed	Difficult tasks are completd	Motivation level remains high	
High DC liability	May attempt goals too difficult	May develop performance- inhibiting reactions	May invest too much effort	May develop an illusion of control	
Influence of desire for control during achievement-related performance (Burger, 1985)					
Based on Figure 13.7, Reeve (2009, p. 387) 49					





- Individual differences
- Unconscious motivation (Ch 14)
- ■Growth psychology (Ch 15)
- **Summary & conclusion** (Ch 16)





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