References

Personality and Intelligence

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July 26, 2015

References

INTRODUCTION

Introduction **Definitions** Theories

Integration with Personality Theory

References

DEFINITIONS OF INTELLIGENCE I

► Consensus Definition (Gottfredson, 1997)

"Intelligence is a very general mental capability that, among other things, involves the ability to reason, plan, solve problems, think abstractly, comprehend complex ideas, learn quickly and learn from experience. It is not merely book learning, a narrow academic skill, or test-taking smarts. Rather it reflects a broader and deeper capability for comprehending our surroundings – 'catching on,' 'making sense' of things, or 'figuring out' what to do."

DEFINITIONS OF INTELLIGENCE II

- ▶ Boring's Definition (Boring, 1923)
 - "[I]ntelligence as a measurable capacity must at the start be defined as the capacity to do well in an intelligence test. Intelligence is what the tests test."
- ► Boring's Definition Misquoted (e.g., Legg & Hutter, 2007)
 - "Intelligence is what is measured by intelligence tests."

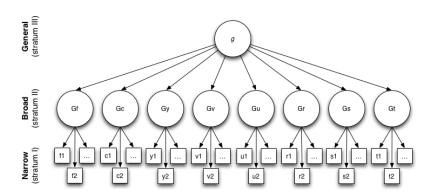
STRUCTURE I

- ► Fluid Crystallized Distinction (Cattell, 1941; Horn, 1965)
 - Fluid Intelligence is the ability to think systematically and solve problems in novel situations.
 - ► Crystallized Intelligence is the capacity to use reason, information, and experience. I like to think of it as "knowledge," and that is the product of our accumulated experiences interacting with fluid intelligence.

STRUCTURE II

- ► Carroll Three-Stratum Theory (1993)
 - ► Hierarchical Structure
 - 1. narrow (70),
 - 2. broad (10), and
 - 3. general cognitive ability (1)

STRUCTURE III



STRUCTURE IV

- ► Cattell-Horn-Carroll Theory is the integration of Cattell and Horn's theory within Carroll's structural model. The broad abilities are:
 - 1. Crystallized Intelligence (Gc)
 - 2. Fluid Intelligence (Gf)
 - 3. Quantitative Reasoning (Gq)
 - 4. Reading Writing Ability (Grw)
 - 5. Short-Term Memory (Gsm)
 - 6. Long-Term Storage and Retrieval (Glr)
 - 7. Visual Processing (Gv)
 - 8. Auditory Processing (Ga)
 - 9. Processing Speed (Gs)
 - 10. Decision/Reaction Time/Speed (Gt)

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