

# Outline of human intelligence

The following outline is provided as an overview of and topical guide to human intelligence:

**Human intelligence** – in the human species, the mental capacities to learn, understand, and reason, including the capacities to comprehend ideas, plan, problem solve, and use language to communicate.

## 1 Traits and aspects

### 1.1 In groups

- Collective intelligence
- Group intelligence

### 1.2 In individuals

- Abstract thought
- Creativity
- Emotional intelligence
- Fluid and crystallized intelligence
- Knowledge
- Learning
- Malleability of intelligence
- Memory
  - Working memory
- Moral intelligence
- Problem solving
- Reaction time
- Reasoning
- Risk intelligence
- Social intelligence
  - Communication
- Spatial intelligence
- Spiritual intelligence
- Understanding
- Verbal intelligence
- Visual processing

## 2 Emergence and evolution

- Noogenesis

## 3 Augmented with technology

- Humanistic intelligence

## 4 Capacities

Main article: Outline of thought

Cognition and mental processing

- Association
- Attention
- Belief
- Concept formation
  - Conception
- Creativity
- Emotion
- Language
- Imagination
- Intellectual giftedness
- Introspection
- Memory
  - Metamemory
  - Pattern recognition
- Metacognition
- Mental imagery
- Perception
- Reasoning
  - Abductive reasoning
  - Deductive reasoning
  - Inductive reasoning

- Volition
  - Action
  - Problem solving

## 5 Types of people, by intelligence

### 5.1 High

- Child prodigy
  - List of child prodigies
- Genius
- Polymath

### 5.2 Low

- Idiot
- Intellectual disability

## 6 Models and theories

- Cattell–Horn–Carroll theory
- Fluid and crystallized intelligence
- General factor of intelligence
- Theory of multiple intelligences
- Triarchic theory of intelligence
- PASS theory of intelligence
- Parieto-frontal integration theory

## 7 Related factors

- Impact of health on intelligence
- Environment and intelligence
- Height and intelligence
- Nations and intelligence
- Neurological factors upon intelligence
- Race and intelligence
  - History of the race and intelligence controversy
- Religiosity and intelligence

## 8 Fields that study human intelligence

- Cognitive epidemiology
- Evolution of human intelligence
- Heritability of IQ
- Mental chronometry
- Intelligence and public policy
- Behavioural genetics
- Human behavior genetics

### 8.1 Psychometrics: measurement

- Psychometrics
  - Flynn effect
  - Educational quotient
  - g factor
  - Heritability of IQ
  - Intelligence quotient
    - Ammons Quick Test
    - Block design test
    - Bracken School Readiness Assessment
    - Cattell Culture Fair III
    - Figure Reasoning Test
    - History of the race and intelligence controversy
    - Intelligence quotient
    - Jensen box
    - Kaufman Assessment Battery for Children
    - Knox Cubes
    - Kohs block design test
    - Leiter International Performance Scale
    - Lothian birth-cohort studies
    - Miller Analogies Test
    - NNAT
    - Otis–Lennon School Ability Test
    - Peabody Picture Vocabulary Test
    - Porteus Maze Test
    - Raven's Progressive Matrices
    - Reynolds Intellectual Assessment Scales
    - Stanford–Binet Intelligence Scales
    - Wechsler Adult Intelligence Scale
    - Wechsler Intelligence Scale for Children
    - Wechsler Preschool and Primary Scale of Intelligence
    - Wonderlic Test
    - Woodcock-Johnson Tests of Cognitive Abilities
- Standardized testing

## 9 History

- Evolution of human intelligence
- History of the race and intelligence controversy

## 10 Organizations

- High IQ societies
  - Mega Society
  - Mensa International
  - Prometheus Society
  - Triple Nine Society

## 11 Publications

- Intelligence (journal)

## 12 Scholars and researchers

- Anne Anastasi (1908–2001)
- Timothy Bates (1963–)
- Ruth Benedict (1887–1948)
- Alfred Binet (1857–1911)
- Thomas J. Bouchard, Jr. (1937–)
- Chris Brand (1943–)
- Carl Brigham (1890–1943)
- Nathan Brody
- Cyril Burt
- John Bissell Carroll
- James McKeen Cattell
- Raymond Cattell
- Stephen J. Ceci
- Catharine Cox Miles
- Ian Deary
- Andreas Demetriou
- Douglas K. Detterman
- Hans Eysenck
- James R. Flynn
- Francis Galton
- Howard Gardner
- Henry H. Goddard
- Robert A. Gordon
- Linda Gottfredson
- John Curtis Gowan
- Anthony Gregorc
- J. P. Guilford
- Richard J. Haier
- Richard Herrnstein
- Ronald K. Hoeflin
- Leta Stetter Hollingworth
- Lloyd Humphreys
- Earl B. Hunt
- Seymour Itzkoff
- Douglas N. Jackson
- Arthur Jensen
- Leon Kamin
- Alan S. Kaufman
- James C. Kaufman
- Nadeen L. Kaufman
- Scott Barry Kaufman
- Timothy Z. Keith
- John C. Loehlin
- David Lubinski
- Richard Lynn
- Nicholas Mackintosh
- Frank C. J. McGurk
- Ulric Neisser
- Helmuth Nyborg
- R. Travis Osborne
- John C. Raven
- Cecil R. Reynolds
- J. Philippe Rushton
- Sandra Scarr
- Théodore Simon
- Charles Spearman

- Herman H. Spitz
- William Stern (psychologist)
- Robert Sternberg
- Lewis Terman
- Lee A. Thompson
- Louis Leon Thurstone
- Ellis Paul Torrance
- Ledyard Tucker
- Philip A. Vernon
- David Wechsler
- Volkmar Weiss
- Lee Willerman
- Robert Yerkes

### 13 See also

- Active intellect
- Cognition
- Cognitivism
- Downing effect
- Educational psychology
- Fertility and intelligence
- Individual differences psychology
- Intellectual giftedness
- Knowledge
- Mental event
- Mental operations
- Neurocognitive
- Passive intellect
- Sex and psychology

## 14 References

### 15 Further reading

- Mackintosh, N. J. (2011). *IQ and Human Intelligence* (second ed.). Oxford: Oxford University Press. ISBN 978-0-19-958559-5. Lay summary (9 February 2012). The second edition of a leading textbook on human intelligence, used in highly selective universities throughout the English-speaking world, with extensive references to research literature.
- Hunt, Earl (2011). *Human Intelligence*. Cambridge: Cambridge University Press. ISBN 978-0-521-70781-7. Lay summary (28 April 2013). First edition of a comprehensive textbook by a veteran scholar of human intelligence.
- Nisbett, Richard E.; Aronson, Joshua; Blair, Clancy; Dickens, William; Flynn, James; Halpern, Diane F.; Turkheimer, Eric (2012). "Intelligence: new findings and theoretical developments" (PDF). *American Psychologist* **67** (2): 130–159. doi:10.1037/a0026699. ISSN 0003-066X. PMID 22233090. Retrieved 22 July 2013. Lay summary (22 July 2013). Major review article in a flagship publication of the American Psychological Association, a thorough review of current research.
- Sternberg, Robert J.; Kaufman, Scott Barry, eds. (2011). *The Cambridge Handbook of Intelligence*. Cambridge: Cambridge University Press. ISBN 9780521739115. Lay summary (22 July 2013). Authoritative handbook for graduate students and practitioners, with chapters by a variety of authors on most aspects of human intelligence.

### 16 External links

- APA Task Force Examines the Knowns and Unknowns of Intelligence - *American Psychologist*, February 1996
- The cognitive-psychology approach vs. psychometric approach to intelligence - *American Scientist* magazine
- History of Influences in the Development of Intelligence Theory and Testing - Developed by Jonathan Plucker at Indiana University

#### Scholarly journals and societies

- *Intelligence* (journal homepage)
- International Society for Intelligence Research (homepage)

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