

Types of Validity

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Here is an overview on the main types of validity used for the scientific method.

"Any research can be affected by different kinds of factors which, while extraneous to the concerns of the research, can invalidate the findings" (Seliger & Shohamy 1989, 95).

Let's take a look on the the most frequent uses of validity in the scientific method:



The banner features the Explorable logo at the top center, with the text "EXPLORABLE Quiz Time!" below it. Below the logo are three quiz cards. The first card shows a pair of red roller skates on a wooden floor, with the text "Quiz: Psychology 101 Part 2". The second card shows a fan of colorful pens, with the text "Quiz: Psychology 101 Part 2". The third card shows a Ferris wheel at sunset, with the text "Quiz: Flags in Europe". At the bottom right of the banner is a link that says "See all quizzes =>".

External Validity

External validity ^[1] is about generalization: To what extent can an effect in research, be generalized ^[2] to populations, settings, treatment variables, and measurement variables?

External validity is usually split into two distinct types, population validity ^[3] and ecological validity ^[4] and they are both essential elements in judging the strength of an experimental design ^[5].

Internal Validity

Internal validity ^[6] is a measure which ensures that a researcher's experiment design closely

follows the principle of cause and effect [7].

“Could there be an alternative cause, or causes, that explain my observations and results?”

Validity and Reliability

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Test Validity

Test validity [8] is an indicator of how much meaning can be placed upon a set of test results.

Criterion Validity

Criterion Validity [9] assesses whether a test reflects a certain set of abilities.

- Concurrent validity [10] measures the test against a benchmark test and high correlation indicates that the test has strong criterion validity.
- Predictive validity [11] is a measure of how well a test predicts abilities. It involves testing a group of subjects for a certain construct and then comparing them with results obtained at some point in the future.

Content Validity

Content validity [12] is the estimate of how much a measure represents every single element of a construct.

Construct Validity

Construct validity [13] defines how well a test or experiment measures up to its claims. A test designed to measure depression must only measure that particular construct, not closely related ideals such as anxiety or stress.

- Convergent validity [14] tests that constructs that are expected to be related are, in fact, related.
- Discriminant validity [14] tests that constructs that should have no relationship do, in fact, not have any relationship. (also referred to as divergent validity)

Face Validity

Face validity [15] is a measure of how representative a research project is 'at face value,' and whether it appears to be a good project.

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Links

- [1] <https://staging.explorable.com/external-validity>
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