

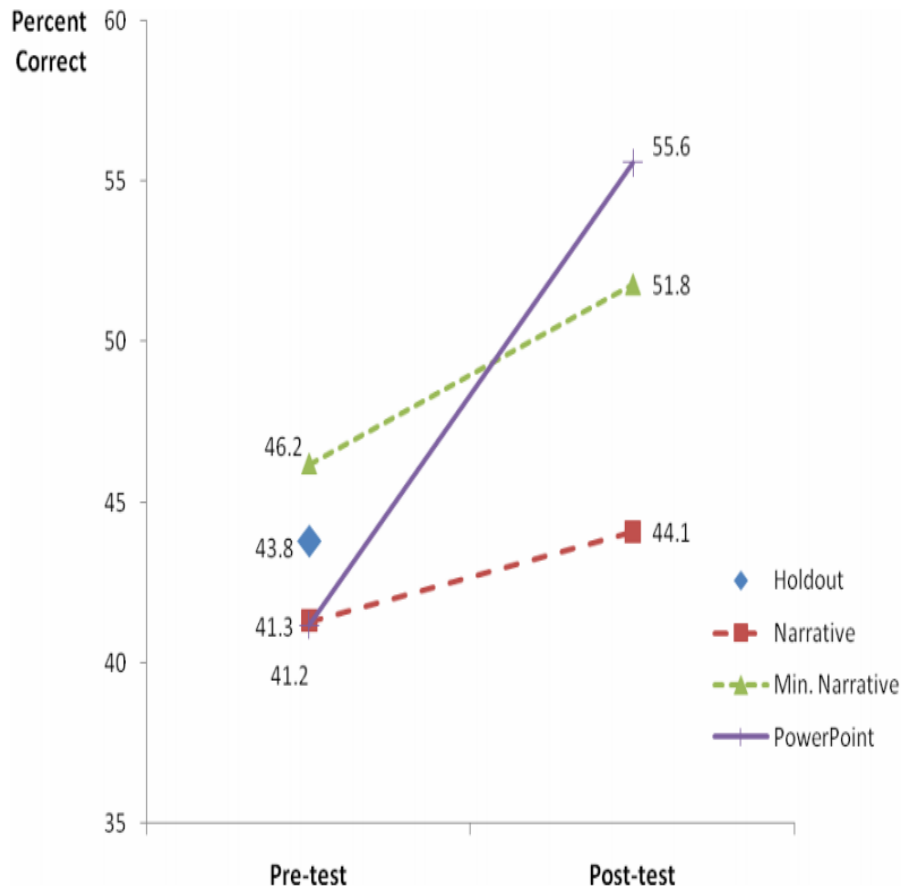
Crystal Island

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Story-Based Learning: The Impact of Narrative on Learning Experiences and Outcomes

- NLE = Narrative-centred learning environment e.g. military training game
- Aimed to conduct an **empirical** investigation into learning
- Also considered **motivational benefits** e.g. self-efficacy, presence, interest and perception of control
- Crystal Island: Narrative-centred learning environment (NLE) based around a **scientific investigation** on an island
- 88 F and 91 M participants split into 4 groups: **Holdout (control), Narrative, Minimal-narrative, Powerpoint**
- Procedure: **Pre-test** (6 surveys including curriculum test), **50 minute gameplay**, **Post-test** (5 surveys including the same curriculum test)
- Results: See graph
- Narrative condition had **better presence**, and self-efficacy, interest, presence and immersion are **correlated**
- Discussion: Narrative version may have too much **cognitive load**, future work needs to address **longitudinal** effect on learning, **mastery vs performance focused** students

Story-Based Learning: The Impact of Narrative on Learning Experiences and Outcomes



Our decision: Weak Accept

- + Clearly written
- + Succinct
- + A good introduction to the field of NLEs
- + Empirical approach
- + Considers the various ways to assess ALEs
- + Highlights some relevant issues
- Lacks descriptions of and justifications for test materials
- Missing all the results data
- Discussion section could be more detailed
- Lacks screenshots and visual aids

Other comments

- Methodology flaw was only briefly mentioned at the end of the paper
- Empirical assessment was limited to learning gain, not motivational aspects
- Some language was confusing e.g. “somewhat significant”
- Appendix lacked link to game