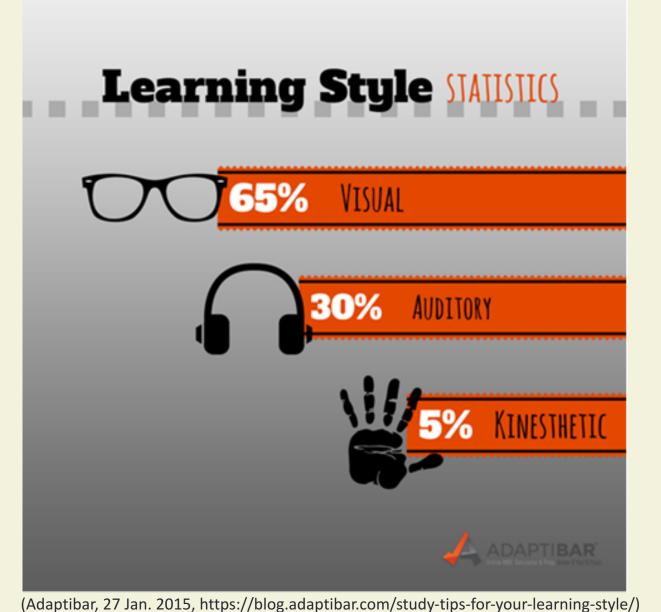


Video Games: A Driving Force for Learning New Media Compositions

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PROBLEM



- As interactive stories, video games present unique perspectives to storytelling.
- Research is lacking in how to effectively incorporate video games into the classroom in a meaningful way.
- In order to better meet the needs of diverse learners, multi-modal differentiated instruction is vital.

GOALS

In an effort to increase engagement and student success, while incorporating new media literacies, the use of video games can have a significant impact on:

- Allowing students to become part of the story and directly impact the outcome
- Creating a co-author relationship in which they, too, become designers
- Allowing agency and student-directed exploration of alternative, multi-modal texts



Chi and Wylie (2014) determined that

be categorized into four modes:

Interactive

Active

Passive

Constructive

student behaviors of engagement could

THEORETICAL FRAMEWORK

ICAP Framework

Taxonomy of four modes, their definitions, and assumptions

Iteractive, Constructive, Active, Passive

Knowledge-change processes & resulting changes in knowledge Storing, Inegrating, Inferring, Co-inferring

Cognitive outcomes

Recall, Apply, Transfer, Co-create

Interactive > Constructive > Active > Passive

FIGURE 1 The ICAP framework consists of a taxonomy of four modes of activities, their definitions and assumptions; hypothesized knowledge-change processes and the resulting changes in knowledge; projected cognitive outcomes; and the ICAP hypothesis of learning outcomes.

Figure 1. (Chi & Wylie, 2014)

- Students are more actively engaged in learning tasks when in the *Interactive* mode.
- Students, when in the *interactive* mode, go beyond inferring and recall and become active participants in co-creation.
- In video games, players are co-creators of the story, as each action and choice alters the narrative outcome.
- Curricular materials will be designed with the intent of engaging students and encouraging *interactive* mode behaviors.
- Constructivist teaching will allow student-directed learning opportunities that encourage collaboration and student-based projects.

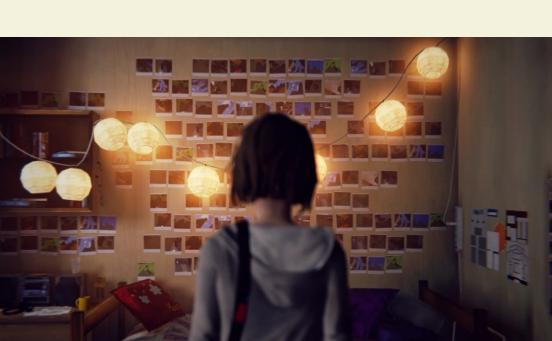
RESEARCH QUESTIONS

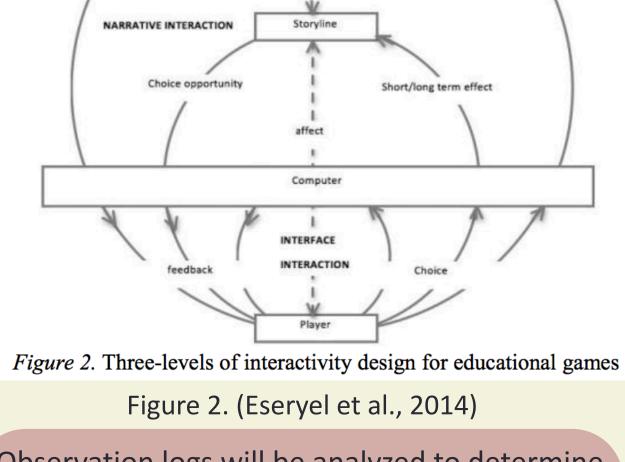
- How can we use video games as educational tools and alternative texts in the secondary English classroom to teach the composition of narratives (stories)?
- What would the most effective instructional process look like?
- How can we, then, develop a curriculum that promotes increased student motivation and engagement that also enhances the learning of digital and media literacies through the use of video games?

METHODS

SOCIAL INTERACTION

- Using genre analysis, I will determine how genres are represented and classified in video games
- Using literary, narrative analysis, I will determine how video games function as narratives so that I can more effectively incorporate them into my classroom
- Logs will be collected during gameplay that record observations and interactions
- Coding scheme developed based on the three-levels of interactivity identified in Eseryel et al. (2014)





Observation logs will be analyzed to determine how interaction, choice, and opportunities are presented and form the story. Essentially, I will determine which aspects of game play are functioning as a literary element, leading to character development, advancing the narrative, and building tension to a resolution.

The main character, Maxine, in *Life is Strange*, an episodic adventure game, contemplates images in a crucial story moment. (Baghadoust, L. (Producer). (2015). *Life is Strange*. Tokyo, Japan: Square Enix)

Sample observation analysis of the introductory cut-scene from *Uncharted 2: Among Thieves* (part of *Uncharted: The Nathan Drake Collection*):

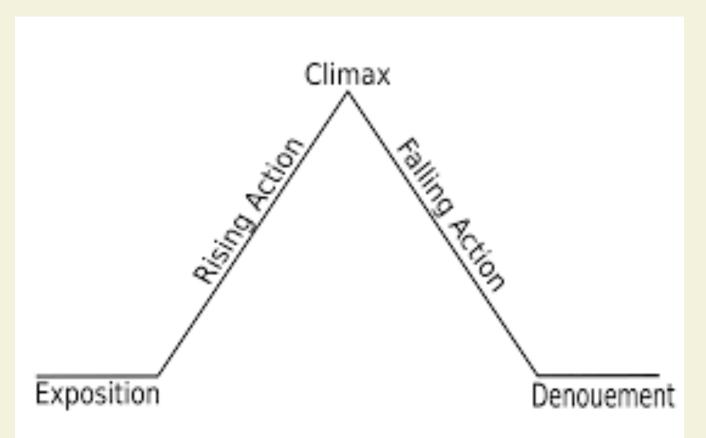
- Beginning starts with a quote from Marco Polo, "I did not tell half of what I saw/for I knew I would not be believed"
- Black screen shifts to reveal a flickering light, showing a damaged interior, viewed from the perspective of the main character
- Shift to third person, where main character wakes up alone on what is left of a luxury passenger train, clearly disoriented and unsure of his surroundings
- Though he's already injured and bleeding heavily, Nathan Drake makes a harrowing escape to a snowy, mountain cliff-side and surviving the collapse and fall of the train

From the cut-scene discussed above, Nathan Drake, the main character in the third person action adventure game *Uncharted 2: Among Thieves,* begins his adventure with a thrilling escape. (Hennig, A. (Director). (2015). *Uncharted: The Nathan Drake Collection*. Austin, TX: Bluepoint Games.)



FINDINGS

- Plot structures are similar to traditional linear stories
- Character development and archetypes are apparent across games analyzed, though this occurs through various interactions and choices of player during game play
- There are multiple levels of interactivity that add to narrative structure development



Perspective

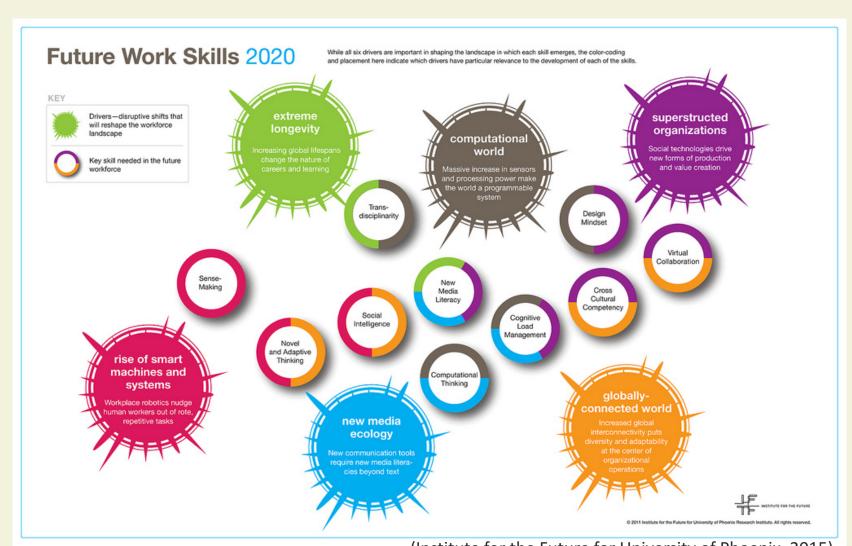
Genre analysis indicates that perspective (POV) and game mechanics are essential in determining classification of video games, differing slightly from written texts. Most common perspectives include:

- First person
- Third Person

Characters interact in *Elder Scrolls V: Skyrim*, and offer various replies, resulting in different outcomes to the conversation and story. (Lafferty, C. & Cheng, A. (Producers). (2011). *Elder Scrolls V: Skyrim*. Rockville, MD: Bethesda Softworks.)

EDUCATIONAL IMPLICATIONS

- Increased opportunities for collaboration, a highly desired 21st century skill (Collins & Halverson, 2009)
- New Media Composition and the creation of collaborative, non-linear stories
- Supports visual, auditory, and kinesthetic learning styles



Video games can be used as alternate texts to teach literary elements, such as

plot, theme, conflict, character development and archetypes, and narrative style **Sample assignments could include:**

Developing a storyboard that visually outlines the main conflict of the story

- Using evidence from the text, determining how the theme is developed throughout the game
- Using the authoring tool, begin creating new elements to the existing map that increase interactivity with setting and environment of the game

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