

Some Thoughts on Games in Education

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Formal Definition of **Game** (Salen & Zimmerman)

“A game is a system in which players engage in an artificial conflict, defined by rules, that results in a quantifiable outcome.”

Narrative

IF

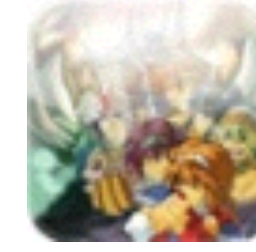
Graphic Adv.

Action/Adv.

RPGs

MMOGs

ARGs



Sims

RTS

Mil. TBS

Mid. TBS

TBS

Simulation

Other

Board

Traditional

Puzzle

Narrative

Other

Simulation

Action

Shmups

Platformers

FPS

Fighting

Sports

Vehicle

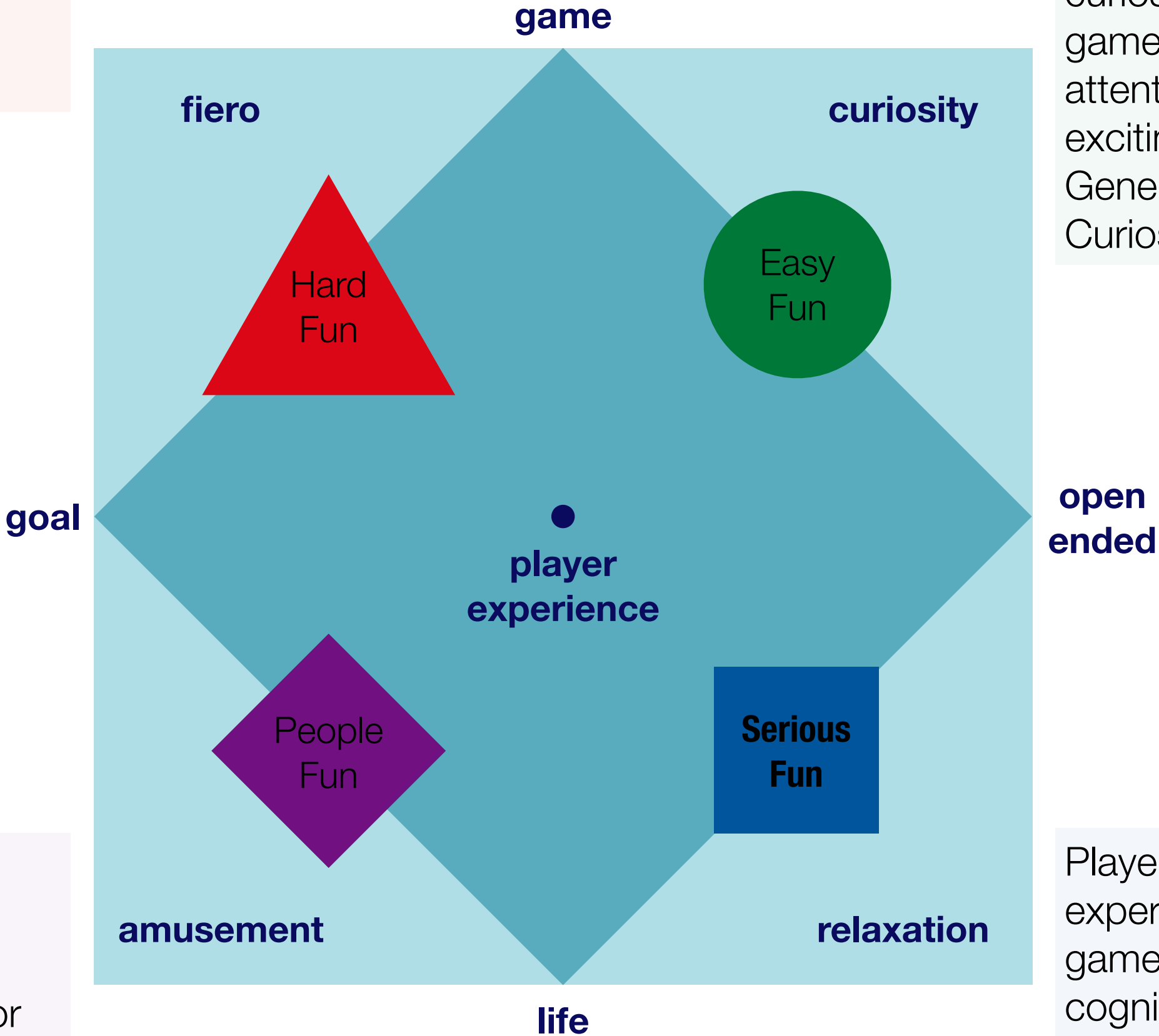
Rhythm

Action

Four Keys to Emotion in Games (Lazzaro)

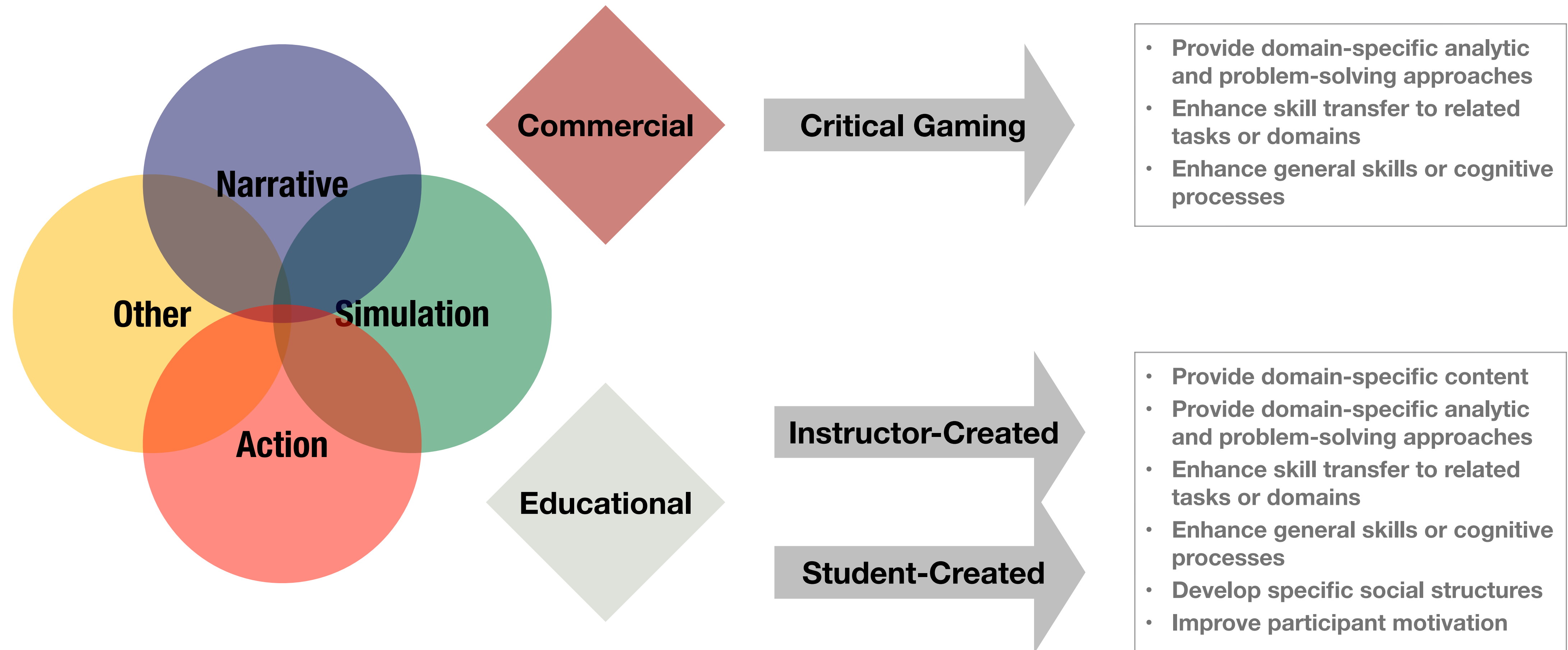
Players like the opportunities for challenge, strategy and problem solving.
Generates Frustration, Fiero

Players enjoy intrigue and curiosity, becoming immersed in games that absorb their complete attention or take them on an exciting adventure.
Generates Wonder, Awe, Curiosity, Mystery.



Players use games as mechanisms for social experiences of competition, teamwork, and opportunities for social bonding and personal recognition.
Generates Amusement, Schadenfreude, Naches.

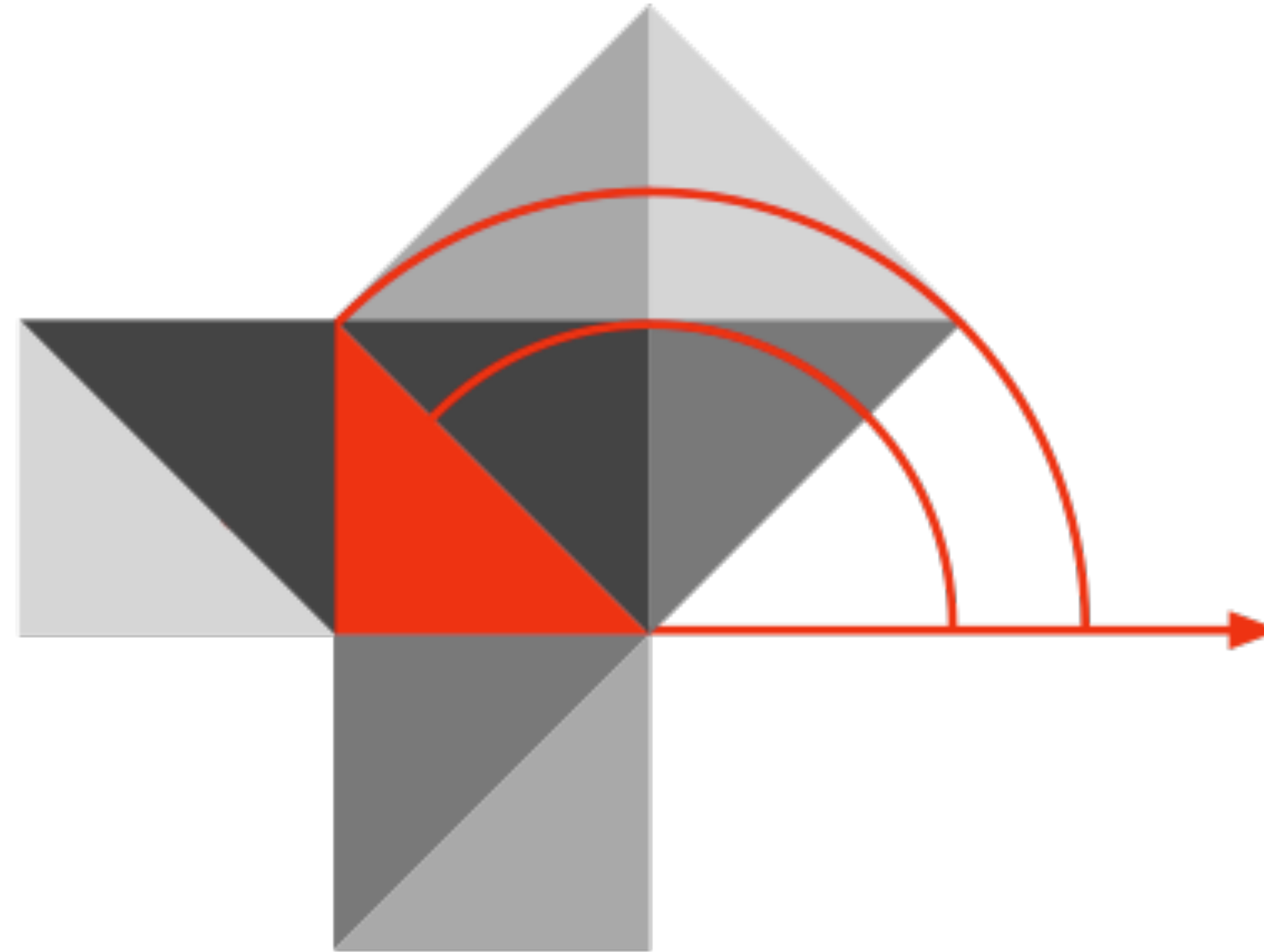
Players enjoy the internal experiences in reaction to the game's visceral, behavioral, cognitive, and social properties.
Generates Excitement, Relaxation.



SAMR in Game Selection and Design — Some Examples

- Substitution:
 - Games that reiterate traditionally taught points (note: not via disguised multiple choice)
 - Games that exercise procedural mechanics in weakly related settings
- Augmentation:
 - Games that exercise procedural mechanics in strongly related settings
 - Games that provide for student discovery of semi-explicit rulesets
- Modification:
 - Games that allow for exploration of non-explicit underlying systems and rulesets
 - Games that allow for construction of social superstructures and activities on the game
- Redefinition:
 - Games that allow for development of previously unexplored student capabilities
 - Games that allow for exploration of previously inaccessible knowledge domains

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