

David Callele
Eric Neufeld
Kevin Schneider
{callele, eric, kas}@cs.usask.ca

Emotional Requirements (RE 2006)

- Capture game designer's intent for the player experience
 - The means by which the player's consciousness is cognitively engaged...

while simultaneously inducing (the desired) emotional responses in the player.

Text Example

 I approach the area with nervousness because I expect to be surprised in some way. When the attacks begin, I am afraid but I am optimistic that I can survive and I am excited by the challenge. I recognize a puzzle that I have to solve and when I do survive, I feel relieved and satisfied. When I fail, I am disappointed and if I fail too often then my annoyance can turn to frustration and anger.

Emotional Requirements (ERs)

- Designer Intent target emotion
 - Emotional Intensity Map
- Artistic Context look and feel
- Trial by Far Vista Studios, feedback missing guidance for production
 - how to induce the target emotion
 - where to place the inducing element(s)

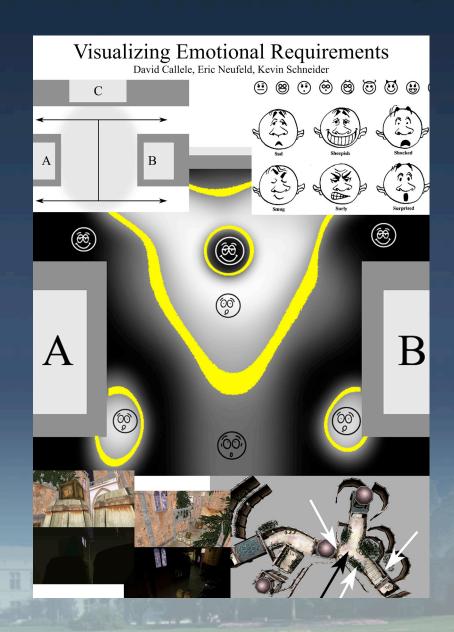
Emotional Requirements (ERs)

- Designer Intent target emotion
- Artistic Context look and feel
- Emotion Prototype (Smith '99, '07)
 - Emotion Marker, Cue, Trigger
 - Action, response to emotion marker
 - Goal, purpose of action

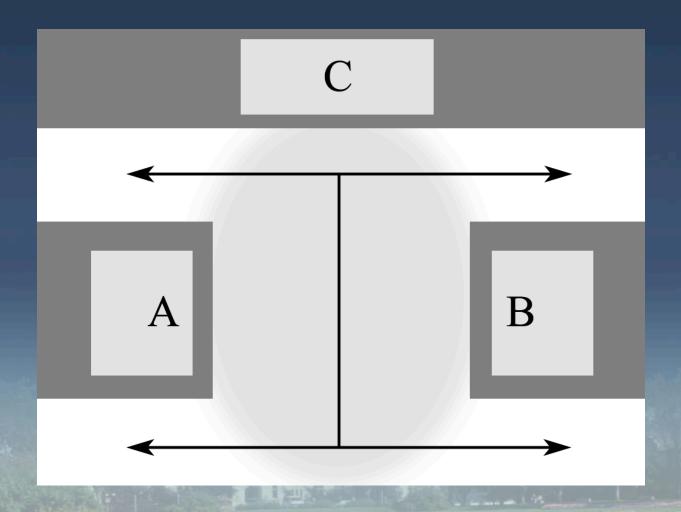
ERs in Practice

- Overcome communication challenges between pre-production and production
- Desired characteristics
 - Lightweight, in designer's language
 - Preferably visual
 - Situated within the game world
 - Accessible without special skills

Poster Review



Designer's Concept

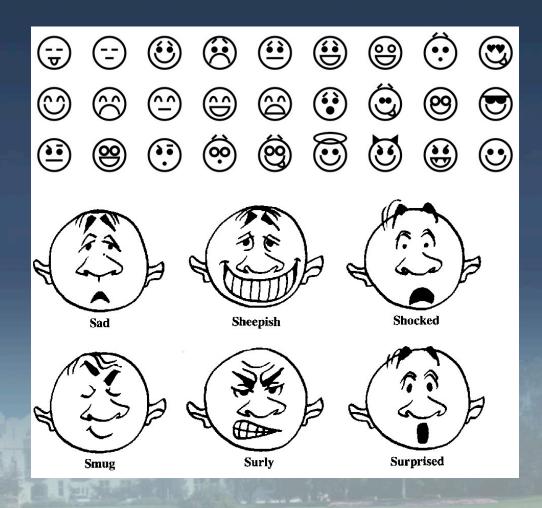


Reminder...

 I approach the area with nervousness because I expect to be surprised in some way. When the attacks begin, I am afraid but I am optimistic that I can survive and I am excited by the challenge. I recognize a puzzle that I have to solve and when I do survive, I feel relieved and satisfied. When I fail, I am disappointed and if I fail too often then my annoyance can turn to frustration and anger.

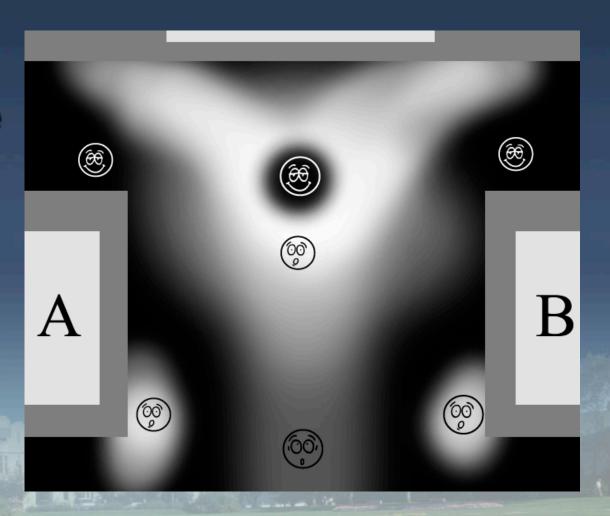
Emoticons

- Designer's intent
- Universal language



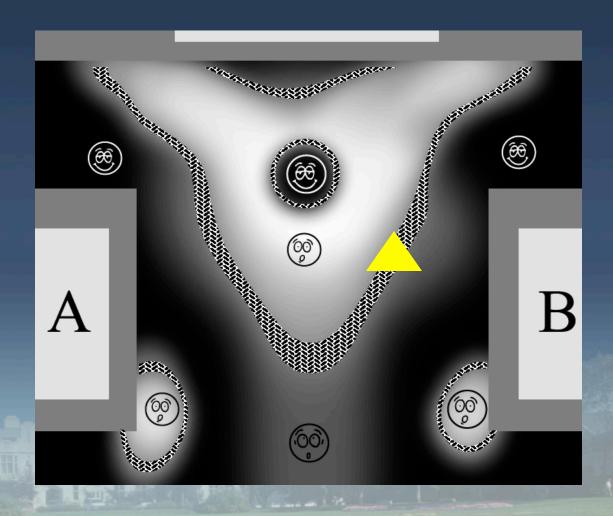
Emotion Intensity Map

- Player experience
- Situated within game world



EIM for Production

Where guidance



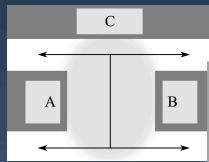
EIM in Color and Grayscale

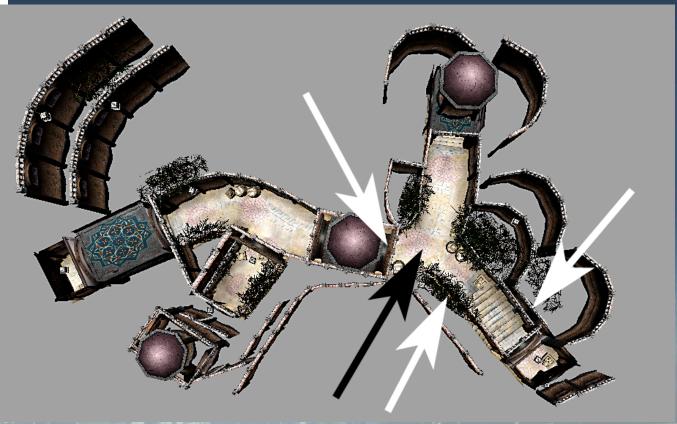
FEAR
FEAR

RESENTMENT
???

RELIEF

Concept -> Implementation





In-Game Views



Strengths

- Situated within game world
- Strongly visual
- Very rapid capture of highly complex information

Weaknesses

- Does not support complex emotion mixes, transitions
- Not all elements are visual
 - action and goal are still textual
- Complex 3D spaces not easily represented in plan view
- Lack of facial feedback, cues
 - Support for using emoticons

Open Questions

- How many emotions are needed?
 - Are emoticons or facial sketches the best option?
- General applicability?
 - Beyond the combat game

Discussant

And your questions...

Thank you!