Learning Through Three Dimensional Simuations and Virtual Worlds

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ReactionGrid Inc.

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ReactionGrid Inc. Clients

- **Government:** NASA, NOAA, DOE, GovGrid, Veterans Administration
- **Enterprise:** IBM, Microsoft, Xerox, Siemens, Raytheon, Novonics, Emdeon, American Cancer Society, Aspyr Gaming Studios
- **Universities:** Boston College, Cedar Crest Academy, Chanchung American International School, Colorado Mountain College, George Mason University, Georgia Tech, Hong Kong Polytechnic, Future University Japan, Perdue, Rutgers

ReactionGrid Inc. Services

- **Creating** 3D Simulation and Virtual World platforms for general purpose use.
- **Developing** desktop and mobile applications.
- **Helping** clients with best practices for developing successful immersive learning projects.

How to Navigate in Jibe

- Press WASD or arrow keys to walk.
- Hold a key to start running.
- Press space while moving to jump.
- Click-drag on screen to move camera.
- Click on chairs to sit.
- To stand up, walk forward or backward.

ReactionGrid on Twitter

buffyb RT @Pathfinder: IN 1 HOUR: My ISTE SIGVE Presentation @8pm Eastern - "Jibe and Virtual Worlds on the Web" - http://bit.ly/iRr0BY #ReactionGrid
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Pathfinder IN 1 HOUR: My ISTE SIGVE Presentation @8pm Eastern - "Jibe and Virtual Worlds on the Web" - http://bit.ly/iRr0BY #ReactionGrid
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ReactionGrid RT @Tinsel_Silvera: Due to schedule conflicts there will be no #ReactionGrid Help Island Office Hour this week. My apologies.!
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Tinsel_Silvera Due to schedule conflicts there will be no #ReactionGrid Help Island Office Hour this week. My apologies. See you next week!
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MariaKorolov RT @Pathfinder: NOW: Visit this URL between now and 4pm Eastern to chat and watch me work in Unity3d and Jibe. http://bit.ly/lEOB5Z

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Virtual Worlds in your Browser

REACTION GRID × unity × jibe

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@Pathfinder

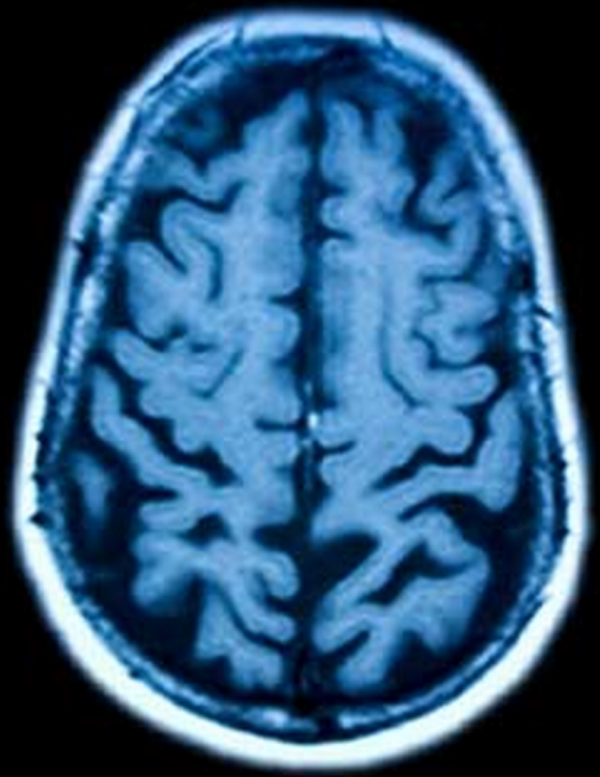
Google docs Slide 1 of 3 Actions https://docs.google.com/present/view?id=

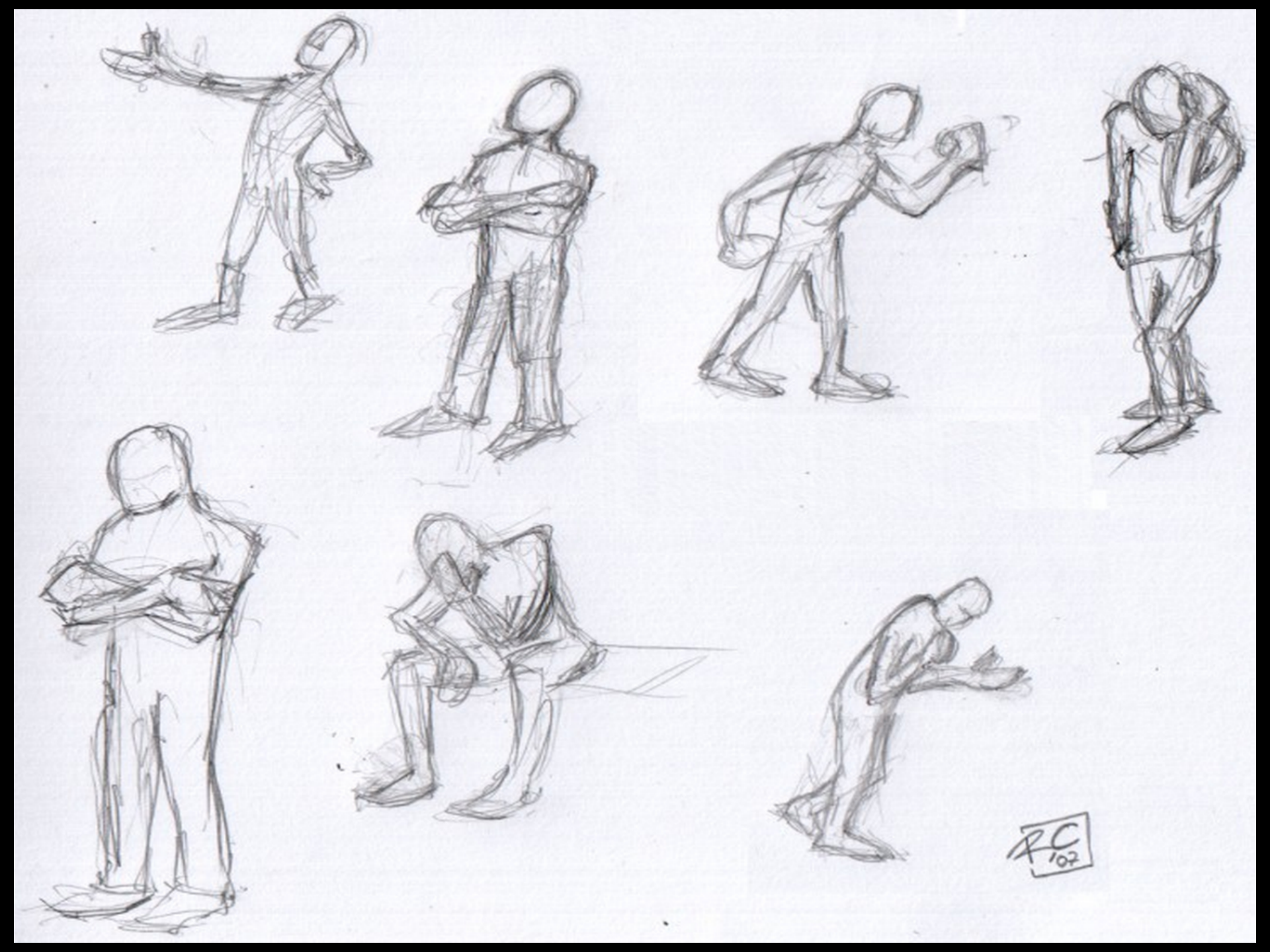
Immersive Learning and some Best Practices

- "Emotional Bandwidth"
- Building new tools to increase it.
- Learning how to use *existing* tools **better**.

Bound by our Biology

- *Our brain is designed to thrive in a 3d environment full of embodied people and places.*
- *We forget the importance of social cues that build empathy and trust.*
- *What we experience in a virtual environment feels real because our brain fills in the gaps.*

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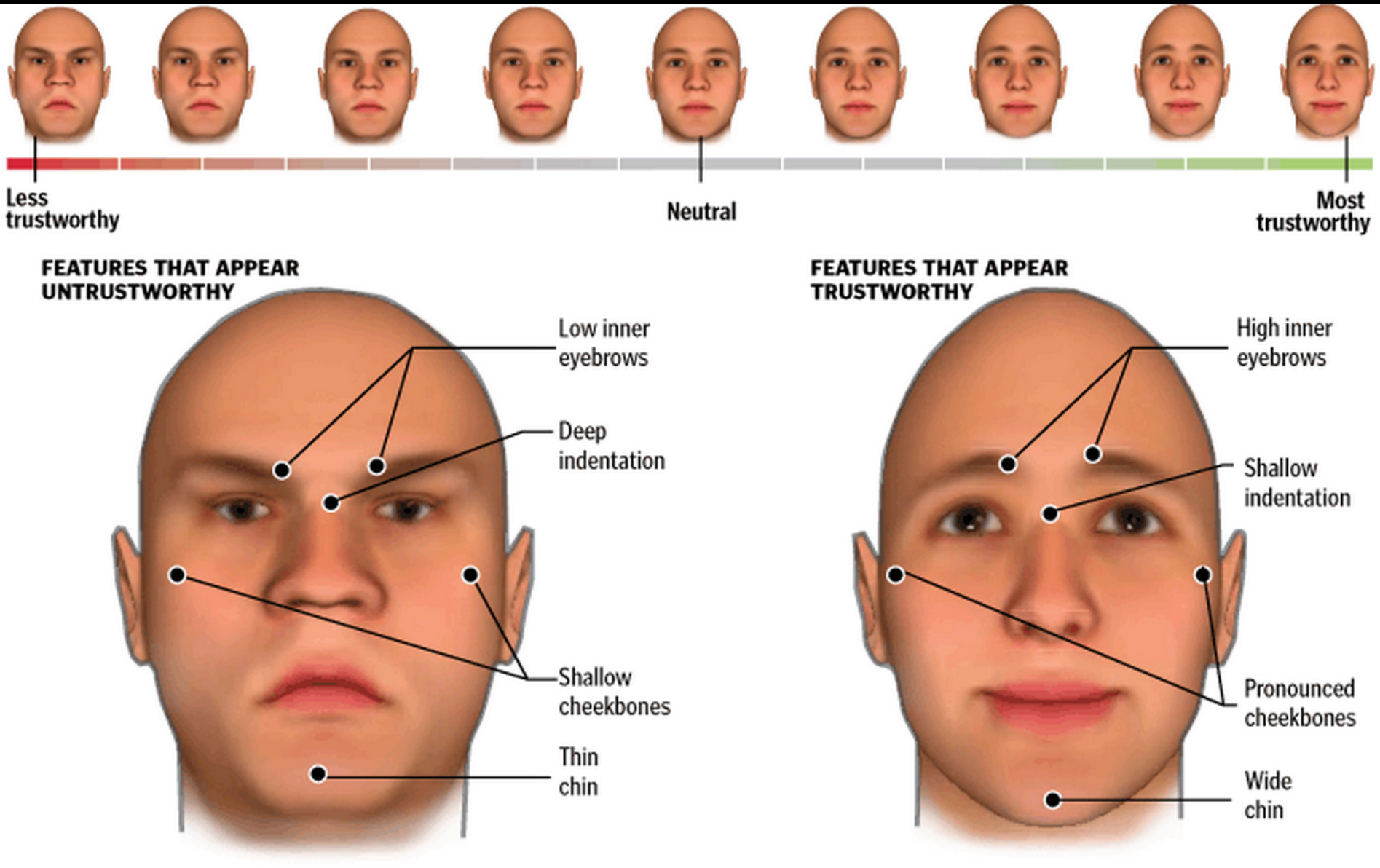
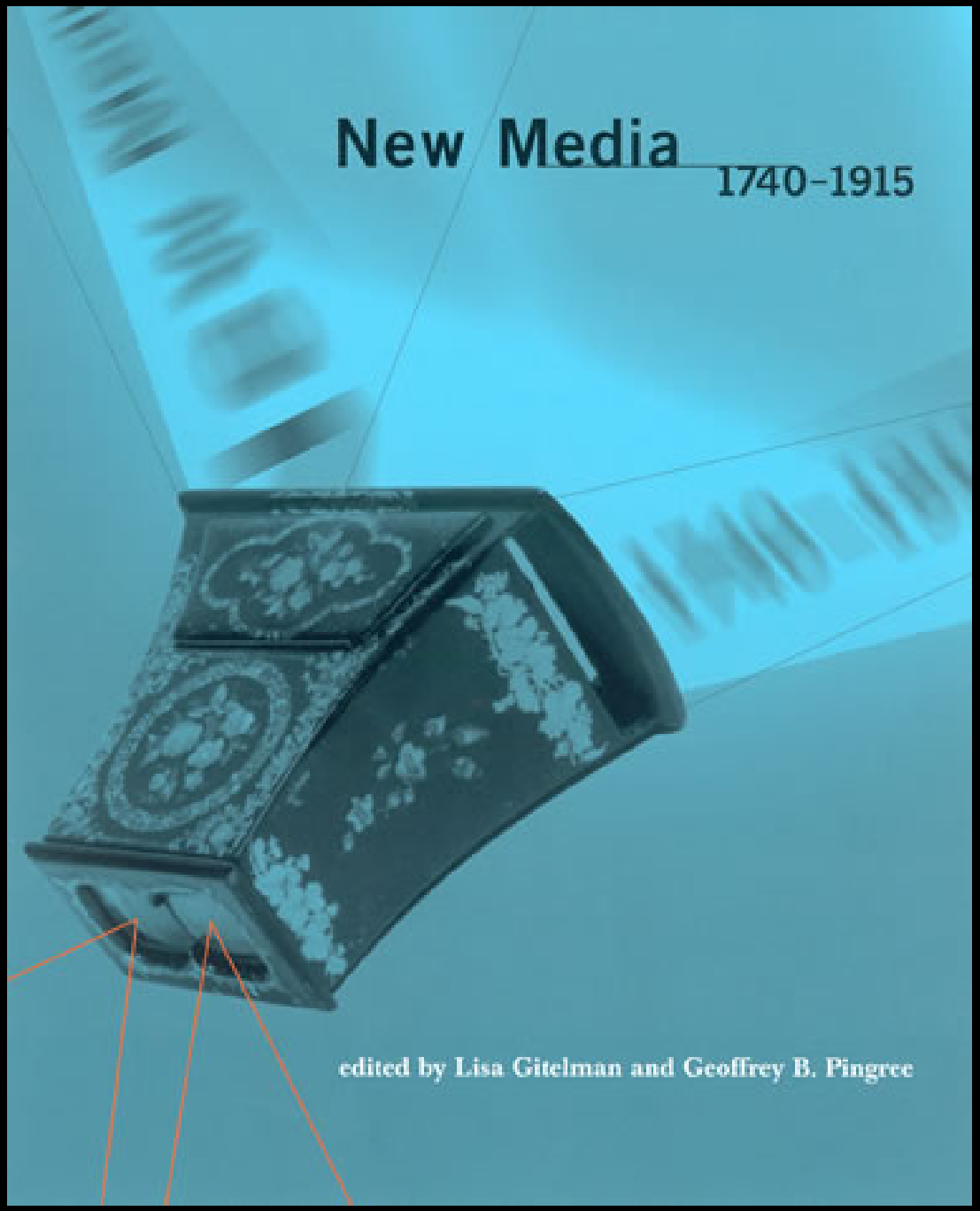

Less trustworthy
Neutral
Most trustworthy
FEATURES THAT APPEAR UNTRUSTWORTHY
Low inner eyebrows
Deep indentation
Shallow cheekbones
Thin chin
FEATURES THAT APPEAR TRUSTWORTHY
High inner eyebrows
Shallow indentation
Pronounced cheekbones
Wide chin

Common Pitfalls

- Pattern Matching
- The Tiger in the Grass
- Lost Opportunities caused by using a new tool like an old tool.

New Media 1740–1915



edited by Lisa Gitelman and Geoffrey B. Pingree

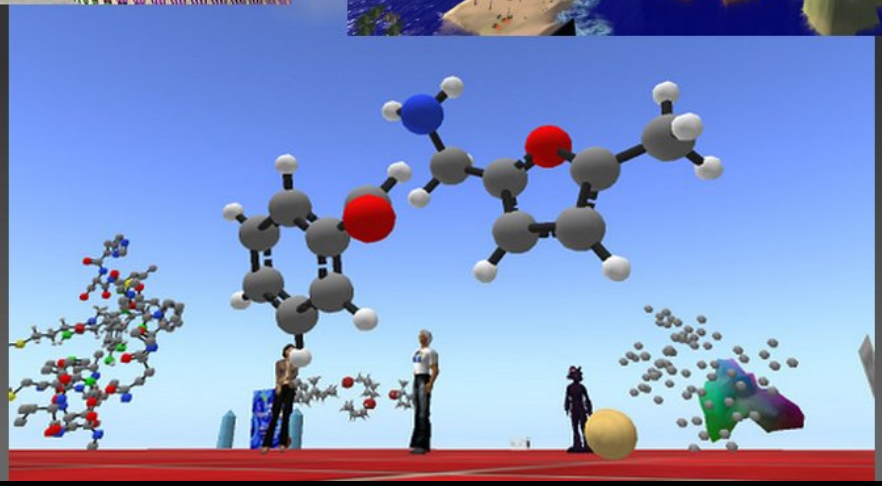
Creating Engagement

- We tend to recreate the familiar.
- We do this because the familiar feels *safe*.
- The deepest learning happens not when we feel safe, but when we are **fascinated with and challenged by our environment.**

TERRY
Hilton

TeleportPoint1
RONSTEDT GROUP
Juliana
JonB
Nyx Ivory:
Improving workplace performance with immersive learning
Virtual worlds learning:
• Immersive
• 3-D
• Social
• Memorable and fun
Online Users
Chat

CNN
BBC



A Few More Best Practices

- Engage people **wherever** they are.
- Cultivate a sense of **place**.
- Encourage **exploration** by **rewarding it**.

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Thank you

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www.reactiongrid.com