TEACHING REMOTELY WITH IMMERSIVE TECHNOLOGY

DISCUSSIONS, CRITIQUE, TUTORIALS, QUIZZES

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AR Performance – audience
And actors in AR headsets

• Have taught in second life
• Attended Laval Virtual 2020
• Lots of zooming
• Teaching students to create work for immersive technology remotely
• Use old school technology

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DISCUSSION – EVERYONE PARTICIPATES

• What are the elements of design?
• What are the principles of design?
• What are the rules of design?
• How do you determine how many polygons to use?
  ▪ Distance the object is from the camera
  ▪ Faceting, can you see facets along the edge
  ▪ Where is the object going to be used? Game or film?
  ▪ What resolution will the final render be?
  ▪ Can any part of the object be replaced by a texture?
  ▪ Is it glowing green?
• Methods for showing depth
• Use the outline in Word
• Start with the discussion items
• Add details from discussion during class
• Post the results

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CRITIQUE

• Provide a list of possible things to critique
  ▪ Design and technical
  ▪ Constructive critique
    ▪ Why did you choose?
    ▪ Do you comment?
    ▪ Live critique in zoom
• Students post work to Google Photos
  ▪ Critiques are submitted as comments
  ▪ Other students see the critiques

• Students post work
  ▪ Other students submit critique to dropbox
• Students post work
  ▪ Save idea, set students post answers in a guest where they can be asked specifics
  ▪ Can use random questions
  ▪ Avoid “deer in the headlights” syndrome
TUTORIALS

- Videos
  - Students seem to like them
  - Big to download or stream
  - Poor for streaming
  - Hard to find specifics later
- Written tutorials
  - Like them, but a lot of students didn’t
  - Often can’t take notes in the document
- Notes from video tutorials

NOTES IN POWERPOINT

- Screen-based with notes
- Lighter to download
- Watch later?
- Visuals are easy to include
- Can see the whole process at a glance in the slide sorter
- In the notes view, can see written into and add notes

QUizzes

- Multiple choice in teaching software
- Multiple choice
- Automatic grading
- Reliable form
  - Can do off line
  - Submit digitally

- Notes in PowerPoint
- Questions related to images
- Questions and answers in the notes area
- Submit PowerPoint file
QUizzes

- Multiple choice in teaching software
  - It’s multiple choice
  - Automatic grading
- Fillable form
  - Can do it offline
  - Submit digitally

Notes in PowerPoint
- Questions related to images
- Questions and answers in the notes area
- Submit PowerPoint files

Practical
- A challenge
- A time limit
- Submit results in a Dropbox

Submission of AR/VR Projects

- Students don’t have access to all of the technology
  - Slow computer
  - Bad Internet access
  - Computer goes down

Sketches
- Shows conceptual work
- Reference images
- Video walkthrough
- Walkthrough with slides
  - Can add description of mechanics