Virtual Reality: Opportunities for Teaching and Using it in Law Practice

Presented by: Ayyoub Ajmi, Kenton Brice, and Jennifer Wondracek
What is Virtual Reality?

Virtual Reality is a three-dimensional, computer generated environment which can be explored and interacted with by a person. That person becomes part of this virtual world or is immersed within this environment and whilst there, is able to manipulate objects or perform a series of actions

- Virtual Reality Society
What Experience have you had with Virtual Reality?
Ayyoub Ajmi

- 360-DEGREE VIDEO IN TRIAL ADVOCACY COURSES
  - Self-Assessment for Skills-Based Courses
  - Why Advocacy Classes?
  - Today’s Panoramic Imaging
Kenton Brice

Using a variety of technology tools to:
- Create, curate, and display 360 videos
- Create, curate, and explore 3D models
VR @ OU Law
- Integrations into current curriculum
- Discovering practice-oriented applications
- Utilizing professionally produced content
- Creating home-grown content
VR Hardware @ OU Law (Content Display)

- Oculus Rift
- Leap Motion Controller
- Falcon NW
- Tiki Desktop Computer (w/ 1080 GTX Graphics)
VR Hardware @ OU Law (Content Creation)

Suite of 360 Cameras:

- Nikon
- Ricoh
- Kodak

3D Structure.io Scanner (iPad)

Drones:
VR Software @ OU Law
OU VR Implementation

• 360 Videos:
  • Professionally created videos:
    • International Human Rights – *Clouds Over Sidra* (With.in)
  • Faculty created videos:
    • Transactional Law Practicum – Student presentations at law firms
    • Indigenous Peoples Rights – Cherokee history videos
  • Oil, Natural Gas, and Energy Law Center (ONE C) Collaboration:
    • Drone-aided video of historical oil well sites and modern day water reclamation facilities

• 3D Modelling:
  • Building recreations
  • Oil well modelling
  • Physical Object modelling
Jenny Wondracek

• Pilot testing e-Learning Studios public speaking app
• Currently: Professor and Staff testing
• Upcoming: Advocacy team testing
User Experience

From the stage

To the boardroom
Feedback

Tone Range
Your range of tones was ok but try to vary your voice.
63%

Volume
Great! Even the people at the back could hear you.
69%

Overall Score
Ok, but there is room for improvement.
59%

Eye Contact
You might have been focusing on the laptop too much.
40%

Time Taken
Great! Your timing was perfect.
100%

Save Recorded Speech
Play Recorded Speech
Retry
What challenges and successes have you faced with VR?
Ayyoub Ajmi

• Self-Assessment Voir-Dire (example)
  • Short clips
  • For assessment or portfolio
  • Not graded

• Technology Limitations
  • Storage and battery
  • Rendering of large files
Successes

• Collaborations with forward-thinking faculty
• Amazing support from Administration
• Creation of custom content
• Integration into other Centers

Challenges

• Limited amount of resources
• Limited amount of technical expertise
• Hardware limitations
Jenny Wondracek

**Successes**

- $2500 from AALL to fund the pilot program
- A lot of enthusiasm from colleagues and students
- Institutional Review Board process
- Funding
- Hardware acquisition
How do you plan to use VR in the future?
Ayyoub Ajmi

• I decided to just stick with 360-degree video
• Technology is improving
2015

• 16MP CMOS
• HD 1080p Video
• 360° Field of view
• Up to 32Gb Storage

2017

• 20MP DUAL CMOS
• 4K Video
• 360° Field of view
• Up to 32Gb Storage
• Live Streaming
Kenton Brice

• Expanding course integrations
• Increase amount of custom created content
• Look for more mobile/wireless solutions
Jenny Wondracek

• Development of a Virtual Courtroom
  • Potential collaboration with the University of Law (UK)
• Experimenting with 360 videography
• Taking 360 objects to 3D printing
How do you see VR integrating into the practice of law?
Ayyoub Ajmi

• Great tool for training
• Powerful tool for courtroom
Kenton Brice

**Current Implementation**
- Evidence presentation in mediation and arbitration
- Expert assistance for various types of litigation
- Creating a real-time model for investigation, not a reconstruction
- Discovery Requests & Responses

**Future Possibilities**
- 360 Degree Video Depositions
- Evidence presentation in trial (Expert walkthroughs)
- Evidence presentation in trial (Everyone in virtual space)
- Virtual, Remote Court
Jenny Wondracek

• What Kenton said!
• Virtual training and practice sessions
• Exploration of the legal field by those considering law school
• YOU play the most important part in keeping TECHSHOW exciting. *Please complete the Speaker evaluation before you leave.*

• Reserve the dates!

TECHSHOW 2019: February 27 – March 2, 2019