

Data & Visualization Weekly Projects Report

2021__02__15

Active Projects

Active Development

- Biosphere 2 Biosystems Visualization Collaboration
 - Made more progress on understanding the .vtu file format and its layout of data, useful for visualizing the results of Open Root Sim
 - Began work with wireframe visualization of Zea Maize root development
- Independent Study Abby Collier
 - Met several times to try to troubleshoot the GLSL shader code on her feature p5.js sketch.
 - Shifted into our first week of the data visualization side of the independent study.
- Judging The Data Visualization Challenge
 - No updates this week
- Migrant Forensic Empathy Project: A Digital Borderlands Grant Initiative
 - Meeting with Jonathan Crisman to discuss beginning questions for converting his existing application to the Aframe WebVR platform so that future modification/maintenance is easier.
- Presentation For Civil Engineering Department
 - next week
- Remote Visualization Infrastructure Development
 - Received new desktop machine with Nvidia card inside
 - Started trying to develop containers for use with HPC remote visualization
 - Windows Subsystem for Linux 2 is stuck with certain Nvidia Utils like nvidia-smi
- Resbaz Organizer And Workshop Provider
 - Organizer meeting this week to discuss what workshops to offer, and other administrivia
- Stellarscape Astronomy Multimedia Dance Performance
 - Met with Kay, shot footage of various nebulae (horse head, carina, orion,...)
 - Finished storyboard for first movement of performance
 - Win Burleson met with Tech Launch to discuss Licensing, but haven't heard the results of that meeting
- Womens Hackathon: Visualization On The Web Workshop
 - Provided feed back to Jen on the website that has the schedule for the event

Consultations

- Jason Hortin Holographic Dance Graduate Project

Upcoming

- Bryan Carter Photogrammetry
- Cyverse Container Bootcamp Sig On Remote Visualization
- Has Faculty Collaborations With Holodeck
- Jason Hortin Holographic Dance Graduate Project
- Observablehq Portfolio Of Data Visualization
- Oyster Vibrio Literature Review
- Ray Tracing On The Hpc

Completed For Fiscal Year

Workshops/Trainings

- Mt. Lemmon In Your Pocket-Creating A Virtual Reality Tour
- Tech Core Level Up Presentation Monday, Sept 28 2020
- Tech Core Level Up Presentation Tuesday, Mar 17 2020

Completed Projects/Collaborations

- 3D & Vr Retrofit Azlive
- Bio5 Virtual Reality Tour
- Covid Retail Mitigation Web Scraping
- Force Directed Biochem Networks
- Neuro Choropleth
- Spring Break Covid Photo Maps

Infrastructure Developed

- Autamus Web Interface
- Virtualgl For Nvidia Accelerated Remote Hpc Visualizations
- Xpra And Singularity For Comprehensive Graphical Application Support On Hpc

Protocols and Analysis Developed