

Newmont 3D Web Viewer

Proposal for Colorado School of Mines MCS Field Session, Summer 2015



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Introduction

Newmont as a leading exploration and gold mining company would like to develop a web based tool to visualize drillhole data in 3D. The envisioned tool would read data from a web service and display it using state-of-the-art web technologies such as **WebGL**, or potentially the **three.js JavaScript** library. Newmont uses desktop 3D visualization packages, but also believes there is an increasing need for quick, informative tools that are accessible via a web browser.

Objectives

- Explore available 3D web capabilities and decide on the best technical direction given the project requirements.
- Develop basic capabilities to visualize drillhole traces and downhole data in a 3D web environment.
- Add capabilities to display images of cross-sections and/or the ability to download topographic data from Google Earth or similar and drape it over a surface in 3D.

Work Environment

The team can manage and work on the project from anywhere, but anticipate a number of face-to-face meetings and frequent electronic communication. Team size 3-4.

