

ECS 193AB Winter/Spring2017

Develop a web-based version of Cantera, perhaps similar to Sage

Sponsor: Benjamin D. Shaw, bdshaw@ucdavis.edu (<mailto:bdshaw@ucdavis.edu>), Professor of Mechanical and Aerospace Engineering at UC Davis.

Description:

Cantera (<http://cantera.github.io/docs/sphinx/html/index.html> (<http://cantera.github.io/docs/sphinx/html/index.html>)) is open source software that is used for modeling chemically-reacting gases. It currently requires local installation on a computer for use and it is not easy to install. I would like to have a web-based version of Cantera that I can use for teaching purposes. It should be easy to use so the students can focus on the calculations/results and not software issues. I think that the format of Sage (e.g., <http://sagecell.sagemath.org/> (<http://sagecell.sagemath.org/>)), which is open source mathematics software, would be good. Sage uses python, as does Cantera. Sage and Cantera also can work with Matlab.

[Blog at WordPress.com.](#) Do Not Sell My Personal Information