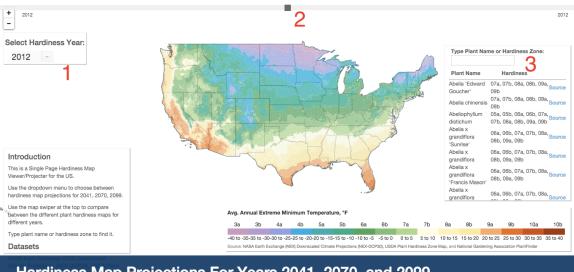
How to use

- 1. Choose Hardiness Map projection year using the drop down menu
- 2. Use the map swiper to compare between plant hardiness maps
- 3. Type plant name or hardiness zone to find either



Hardiness Map Projections For Years 2041, 2070, and 2099

Hardiness Map Viewer

- Single Page Hardiness Map Viewer for the US.
- Use the slider to choose between hardiness map projections for 2041, 2070, 2099.
- Type plant name or hardiness zone to find it.
- Map Link: http://ec2-54-245-62-84.us-west-2.compute.amazonaws.com/

Methods

The regression / interpolation techniques were followed from:

http://journals.ametsoc.org/doi/pdf/10.1175/2010JAMC2536.1

netCDF data from NEX-DCP30 Tasmin average of coldest month of the year were averaged at 30 years intervals prior to 2012 and to each predicted hardiness map year: 2041, 2070, 2099.

Köppen-Geiger climate classification was used to apply regression on areas with contiguous climate pattern. Köppen-Geiger climate raster obtained from:

http://people.eng.unimelb.edu.au/mpeel/koppen.html

Datasets used:

Source: NASA Earth Exchange (NEX) Downscaled Climate Projections (NEX-DCP30), USDA Plant Hardiness Zone Map, and National Gardening Association PlantFinder, and Köppen-Geiger climate map

Set up:

Git clone the repository

At the root directory:

npm install

sudo node server.js