

## SuAVE Do-It-Yourself: Publishing Your Surveys

1. **Create a SuAVE account** at <http://suave2.sdsc.edu>. At the next step, we'll add a survey to your account. There are two ways to do this: creating a new survey and cloning an existing one.
2. **Create a new SuAVE survey from scratch**
  - a. **Examine Documentation and Samples.**
    - i. Check out the Tutorials page on the main SuAVE site (<http://suave.sdsc.edu/tutorials>).
    - ii. Login in to the SuAVE portal at <http://suave.sdsc.edu/login/> (Username: **demo**; Password: **workshop**) to access additional **documentation** about publishing image collections and spatial data in SuAVE, and to browse a **collection of sample surveys**. The links will appear on the right side of the Tutorials page after you log in.
  - b. **Select a Survey to Publish.** There are three types of surveys:
    - i. Surveys without associated images (such as the EarthCube Member Survey): for such surveys you can specify icons based on values of one or two variables when modifying survey settings in SuAVE.
    - ii. Surveys or collections with a limited set of icons/logos: typically, they are easy to publish using our tile generator (examples: the Observing Systems Explorer; the 2018 SDG Indicators dataset).
    - iii. Image collections with real high-resolution images: the images may differ in size, and sometimes take hours to create tile collections from (examples: the San Diego Vacant Lots survey, Picasso Paintings, the USGS Earth As Art collection, soil samples in wetlands of the Lower Mekong.)

In the collection of sample surveys, each survey has a README file. Examine this file for a survey of your choice.
  - c. **Examine Data Files.** Download and unzip the CSV files on your local machine and examine them in Excel.
  - d. **Examine or Create Image Tiles.** Given the limited time at the workshop, you may skip generating a tile collection for your selected survey and instead use pre-built tile collections referenced in the README files. Alternatively, download and unzip the original images, and follow instructions for generating tiles using <http://maxim.ucsd.edu/upload>. Select "*File server (preferred for large uploads)*" option for Storage Location. You will get an email with the URL to the tile collection once the images are processed. In SuAVE2, you can also create image tiles directly from the New Survey definition form.

**NOTE:** please email [zaslavsk@sdsc.edu](mailto:zaslavsk@sdsc.edu) if you intend to publish your own image collections on our servers. We'll be happy to accommodate education projects –

but don't have unlimited space to store images. We'll have to delete large image collections that we don't know about.

- e. **Publish the Survey.** Once you have the data (possibly with associated image tiles) ready, you can publish the survey in SuAVE. Your survey gallery at <http://suave2.sdsc.edu> is initially empty. Click **New Survey** to open a new survey dialog. Give a name to your survey, point to the csv file you downloaded, and also copy and paste the URL to image tiles from the README or (in case you decided to generate your own image tiles) the one you received in email (see step d.) Check the spam folder if you don't receive the email in a reasonable time. Alternatively, point to images directly from the New Survey form.
3. **Clone an existing SuAVE survey.** Navigate to any dataset you find at <http://suave.sdsc.edu> (see that the dataset is hosted on the [suave2.sdsc.edu](http://suave2.sdsc.edu) server) or at <http://suave2.sdsc.edu/gallery/zaslavsk>, <http://suave2.sdsc.edu/gallery/sdhhsa> (these are public views of my survey collections). Once you create a SuAVE account, your *public* surveys will similarly be visible at [http://suave2.sdsc.edu/gallery/<your\\_user\\_name>](http://suave2.sdsc.edu/gallery/<your_user_name>). You can set a survey to *private* if you don't want it to be included in your public gallery.) To clone a dataset, click the "Jupyter" button at the top right of the survey opened in SuAVE, and then click "Clone." A copy of the survey will be placed in your survey gallery (you may need to refresh it).
4. **Customize your survey appearance.** In your personal survey gallery, click Edit for your newly created survey. Explore Settings, and make sure that the Jupyter option is selected. Explore and populate other options as needed. For example, if you created a survey dataset without icons/images, you will be able to assign icons in the dialog (e.g., in the EarthCube Member Survey, select "Gender" as the variable for Shapes, "Primary Discipline" for Colors, "My Primary Role/Expertise" for the dynamic text)
5. **Click Show to analyze you survey**, share the URL with other, play with all the options.
6. **Click the Jupyter button to launch Jupyter notebooks for your survey.** Select CHASE-CI as the Jupyter hub to use, authenticate with a Google account, and wait for the system to spawn a server. Alternatively, select UCSD Datahub once you have the notebooks cloned to your account (in terminal: `git clone --depth 1 https://github.com/suave-ucsd/jupyter-suave.git`) Click through cells in the "dispatcher" notebook to select a notebook you want to launch. Explore the notebooks – and note that not all notebooks will be available for all surveys (e.g. if your survey doesn't have full-size images then notebooks related to image processing won't be shown).