

Installing WebGL Samples

Estimated Time: 30-60 minutes

Liquid Galaxy isn't limited to only Google Earth. WebGL can be used to extend Liquid Galaxy functionality and create different immersive experiences for users.

Step 1: Get Source Code

Download or clone the WebGL Samples from [here](#).

Once the download is done, navigate into the directory named server inside the downloaded folder. Here, run `npm install` to install any dependencies. Then, run `node server.js`.

Open `localhost:8080` on the computer running `server.js` or `[IP_ADDRESS_OF_THE_COMPUTER]:8080` to access the homepage for WebGL samples. From there, any of the samples can be used.

Step 2: Set Up Multiple Screens

The following process has been shown to work for the following samples:

- Aquarium
- Field

Open this link as the right half of the screen:

<http://localhost:8080/aquarium/aquarium.html?settings={net:{sync:true,ui:true,slave:false,fovMult:1.0,rotYMult:0}}>

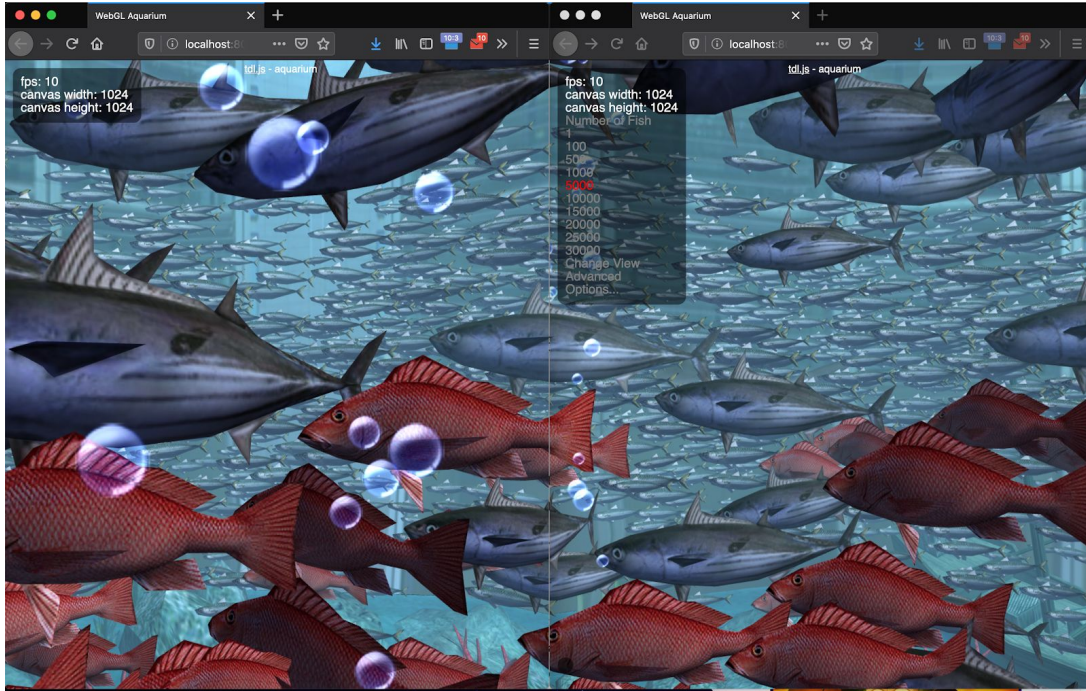
and this link as the left half:

<http://localhost:8080/aquarium/aquarium.html?settings={net:{sync:true,ui:false,slave:true,fovMult:1.0,rotYMult:-1}}>

The word `aquarium` can be replaced with the name of whatever sample you are using as it is in the directory (`field` for `Field`, etc)

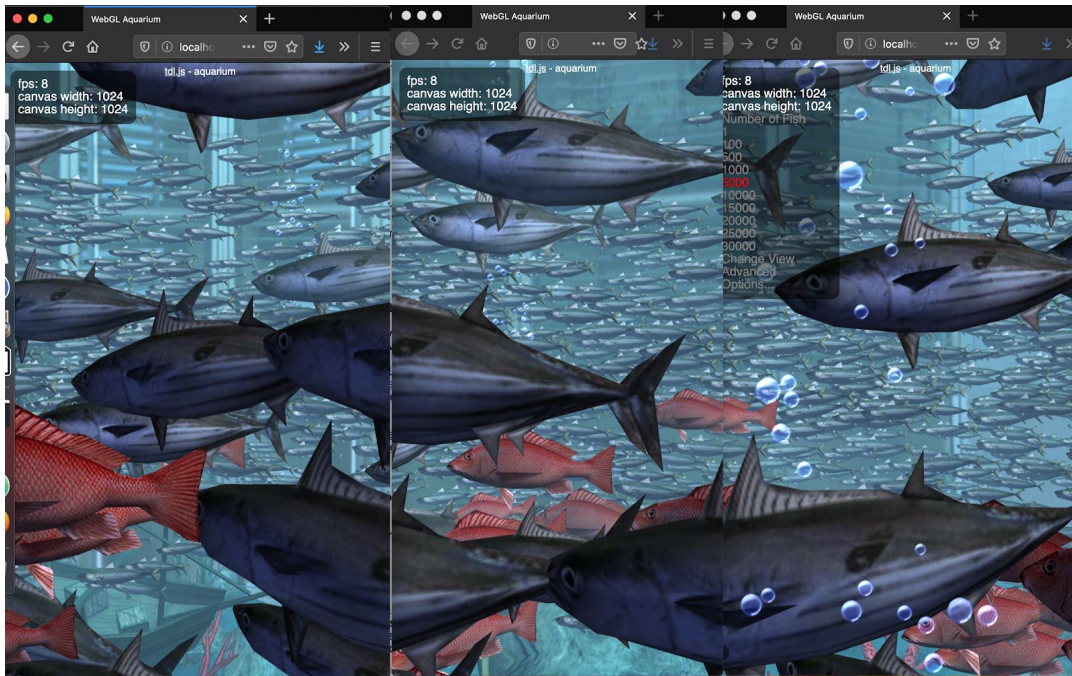
You should get something like this:

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Further displays can be accessed by decrementing the rotY variable by 1 to go one screen left, and incrementing it to go one screen right.

For example, this



can be achieved by also opening <http://localhost:8080/aquarium/aquarium.html?settings={net:{sync:true,ui:false,slave:true,fovMult:1.0,rotYMult:-2}}> and placing it to the left of the already opening screens.

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By placing one of each of multiple Liquid Galaxy Screens, an immersive experience can be achieved. For the other samples, I do not see a way to integrate having different screens into viewSync, but you can still sync displays across machines by opening <http://localhost:8080/aquarium/aquarium.html> while replacing aquarium with the desired sample.