

Conversion Tool

Convert IntroButtons to a GbCC-Web activity.

Convert "NetLogo to GbCC-Web" and "Hubnet to Hubnet-Web"

1. Find a NetLogo Hubnet file.
Run NetLogo 6.x
Open "Gridlock Hubnet".
Save as "GridlockHubnet.nlogo"
2. Upload a NetLogo Hubnet file.
Choose File No file chosen
Upload
3. Receive Download of a NetLogo Hubnet Web zip file.
4. Run NetLogo Hubnet Web App locally.
Install node and npm.
Unzip the compressed NetLogo Hubnet Web file.
In a command line, navigate to the unzipped folder.
Type `npm install` to install dependencies.
This reads the package.json file and installs dependencies in a node-modules folder.
Type `node server.js` to run the server (use ctrl-c to stop it)
Open a browser and go to localhost:3000
5. Troubleshoot
If there is an error like there is already a global variable called STEP-SIZE, then comment out that global variable.
6. Host NetLogo Hubnet Web App remotely.
Build and deploy on Heroku.com
7. Share Activities
Group-based Cloud Computing
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Step 1: Open NetLogo and find an activity. For example: IntroButtons.nlogo

Step 2: Download the tool from Github. Run the tool in a browser.

Step 3: Upload IntroButtons.nlogo and download a Conversion-IntroButtons folder.

Step 4: Run the converted IntroButtons GbCC-Web model in multiple browser windows.

Step 5: Add NetLogo code into the NetLogo Code section. Recompile. Run the share-code procedure by adding running "share-code" in the Command Center.

```
75  
76 to share-code  
77   gbcc-broadcast ["canvas"]  
78   gbcc-set "code example" code-example  
79 end  
80  
81 to gbcc-gallery-click [ user-id ]  
82   set code-example gbcc-get-from-user user-id "code example"  
83 end
```

```
observer> share-code
```

Step 6: Check out the shared Gallery.

Step 7: Click on any canvas in the Gallery and import settings from the user that contributed that canvas.

Step 8: Update the index.html file in your IntroButtons GbCC-Web model to save these changes. Add any other NetLogo code for additional GbCC functionality.

Convert Wolf-Sheep Predation to a GbCC-Web activity.

Step 1: Open NetLogo and find an activity. For example: Wolf-Sheep-Predation.nlogo

Step 2: Download the tool from Github. Run the tool in a browser.

Step 3: Upload Wolf-Sheep-Predation.nlogo and download a Conversion-Wolf-Sheep-Predation folder.

Step 4: Run the converted Wolf-Sheep Web model in multiple browser windows.

Step 5: Add NetLogo code into the NetLogo Code section. Recompile. Run the share-code procedure by adding running "share-code" in the Command Center.

NetLogo Code	Command Center
Recompile Code	
<pre> 127 128 to share-code 129 gbcc-broadcast [["plot" "population"] 130 gbcc-set-globals 131 end 132 133 to gbcc-gallery-click [user-id] 134 gbcc-get-globals-from-user user-id 135 end 136 </pre>	<pre> observer> share-code </pre>

Step 6: Check out the shared Gallery.

Step 7: Click on any canvas in the Gallery and import settings from the user that contributed that canvas.

Step 8: Update the index.html file in your Wolf-Sheep-GbCC model to save these changes. Add any other NetLogo code for additional GbCC functionality.

Convert Disease Hubnet into to a Hubnet-Web activity.

Convert "NetLogo to GbCC-Web" and "Hubnet to Hubnet-Web"

1. Find a NetLogo Hubnet file.
Run NetLogo fix
Open "Gridlock Hubnet".
Save as "GridlockHubnet.nlogo"
2. Upload a NetLogo Hubnet file.
Choose file No file chosen.
Upload
3. Receive Download of a NetLogo Hubnet Web zip file.
4. Run NetLogo Hubnet Web App locally.
Install node and npm.
Unzip the compressed NetLogo Hubnet Web file.
In the terminal, navigate to the unzipped folder.
Type `npm install` to install dependencies.
This reads the package.json file and installs dependencies in a node-modules folder.
Type `node server.js` to run the server (use `ctrl-c` to stop it)
Open a browser and go to `localhost:3000`
5. Troubleshoot
If there is an error like `There is already a global variable called STEP-SIZE,`
then comment out that global variable.
6. Host NetLogo Hubnet Web App remotely.
Build and deploy on Heroku.com
7. Share Activities
Group-based Cloud Computing
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Step 1: Open NetLogo and find an activity. For example: Disease-Hubnet.nlogo

Step 2: Download the tool from Github. Run the tool in a browser.

Step 3: Upload Disease-Hubnet.nlogo and download a Conversion-Disease-Hubnet folder.

Step 4: Run the converted Disease-Hubnet Web model in multiple browser windows.

Step 5: Adjust the model, if necessary. I used Disease-Hubnet.nlogo from <https://github.com/CRemmler/convert>