InstanceTool documentation:

Consept:

Instance tool analyze the geometry objects in the scene and finds groups of objects that could be represented as instances of one of them. Then the user can turn every group into actual instances and choose which object from the group will be preserved. The objects in the group are objects that have the same topology (could be morph targets of one another) and the difference between them could be described with transformation alone. After making a group into instances, all the objects in the group accept the master object will become instances of the master and a new transformation value (position rotation and scale) will be applied to transform them back to their original shape and orientation.

The advantages of using instances over just copies of objects are:

- 1. It saves storage space.
- 2. It saves memory.
- 3. It saves render time.
- 4. It saves work time (modifying one instance effect all of them, like uv mapping).

Installation:

- 1. Drag and drop the mzp file into the viewport, the tool will pop up.
- 2. Go to Customize -> Customize user interface.. -> Toolbars tab
- 3. Under the category "Snowball VFX" you will find the InstanceTool, drag it into a toolbal.
- 4. Enjoy.

💮 Instance Tool v1.5	×
Get groups	
Tolerance: 0.1	
✓ Ignore hidden objects	
Random wirecolor per group	
Instance selected group	
Instance all groups	
Groups:	
Remove selected group	
Group Members:	
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About:	
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UI description:

- Get groups Button: analyze the scence and collect the potential groups. In no objects are selected, the whole scene will be analized, but if there are selected objects, only groups containing at list 1 selected object will be created (this will take less time).
- Tolerance Spinner: set the maximum distance alowed for every vertex of an object to move from it's original location in order to become instanced to another object.
- Ignore hidden objects CheckBox: If checked, it will ignor hidden objects.
- Random wirecolor per group CheckBox: if checked, every group will recieve a unified random wirecolor.
- Instance selected group Button: Make the selected group in the Groups listbox into instances of the master object.
- Instance all groups Button: Make all groups into instances.
- Groups ListBox: Shows all the found groups after the analyze is done, and let the user select a group. Double clicking the group will select the objects of the group in the scene.
- Remove selected group Button: Delete the selected group from the list.
- Group Membets ListBox: Shows the objects in the selected group. Selecting an object from the list will select it in the scene. Double clicking an object in the list will set it to be the master (the master is the object that has the prefix ">>" in the list. This is the object that will not be changed at all when instancing the group, all the other objects will become instances of it).
- Remove selected Object Button: Delete the selected object from the group.
- Attach selected group Button: Attach all the members of the selected group into one mesh.
- Attach all groups Button: Attach all the groups, every group will become one mesh.
- Detach selected objects Button: this option is only

available if you are running snowball pipeline for now.

• Select instances: Select all the instances of the selected objects in the scene.