ncca RenderFarm Tool

Maya: VRay

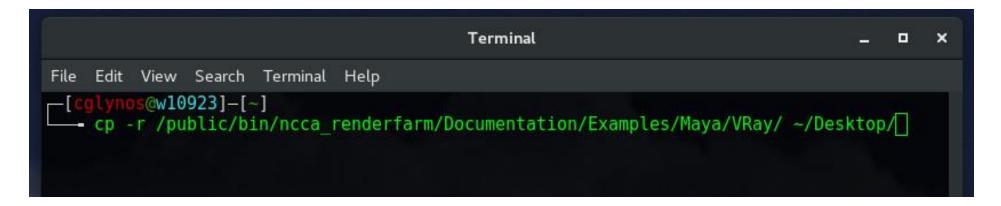
Constantinos Glynos Michail Agoulas



Copy the example scene

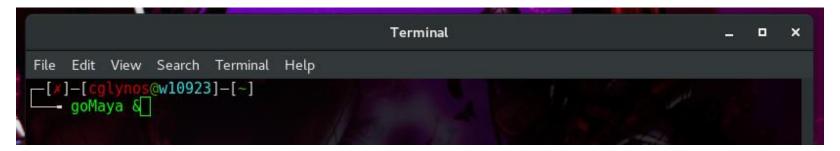
run the copy (cp) command with the recursive flag (-r)

cp-r/public/bin/ncca_renderfarm/Documentation/Examples/Maya/VRay/~/Desktop



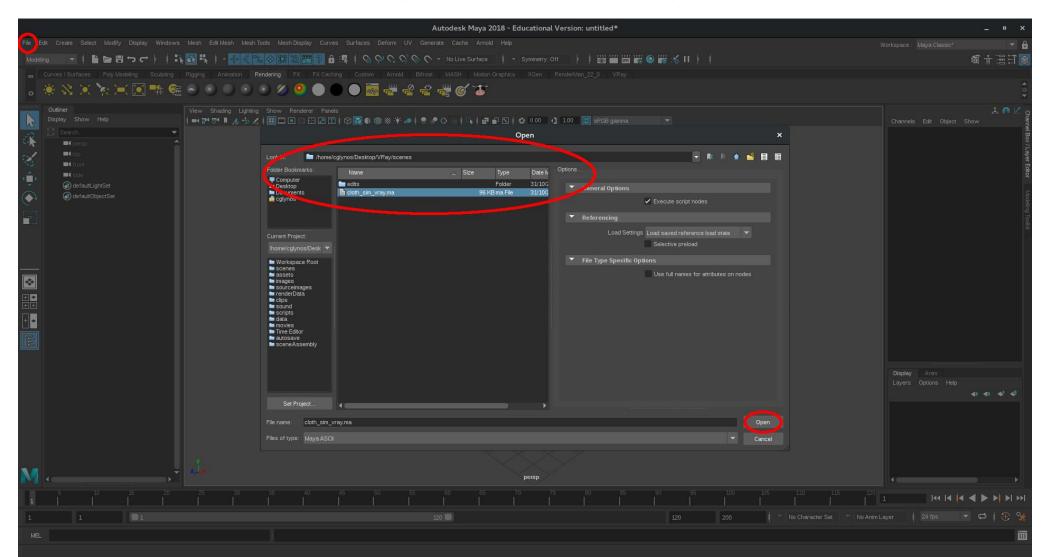
Open Maya

goMaya &



Open the example scene

File -> Open -> cloth_sim_vray.ma



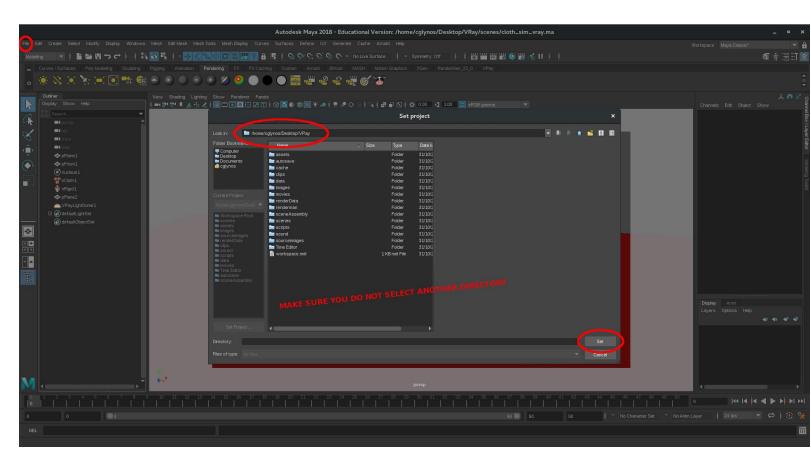
Set project directory

File -> Set Project...

Select the directory which is parent to all the project data files and folders.

Make sure you do not select another directory inside the parent directory

Click Set



Update the textures

Select the pPlane1 mesh

Go to the Attribute Editor -> VrayMtl1

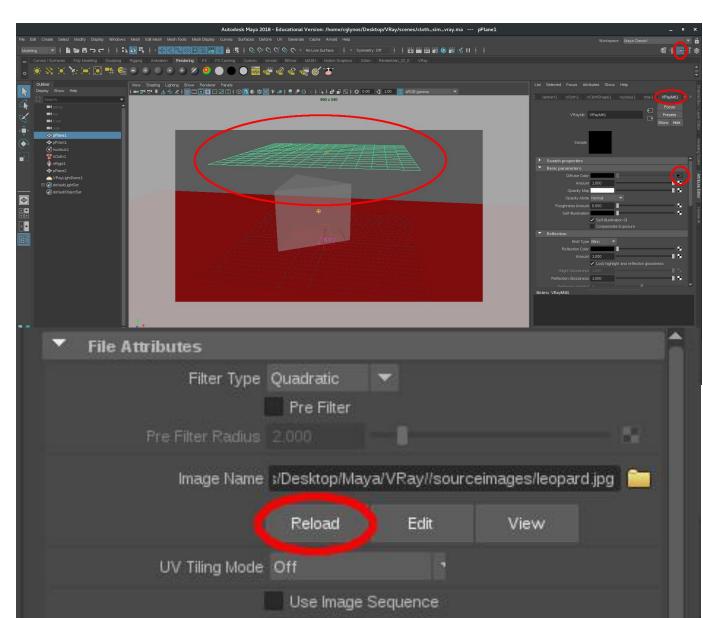
Click on the Diffuse colour option box

Under the Image Name text box, click on Reload.

After hitting Reload, that long path should now say:

sourceimages/leopard.jpg

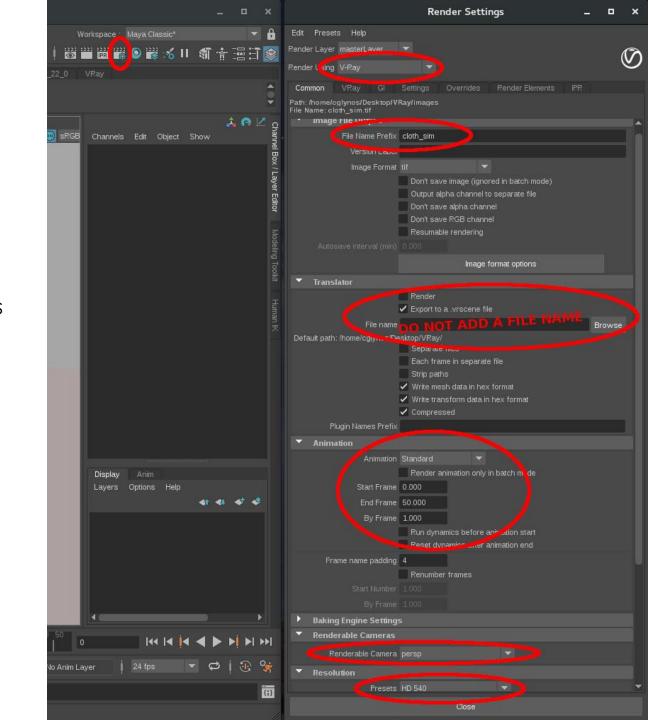
Do the same for the rest of the objects if they have any textures



Check the render settings

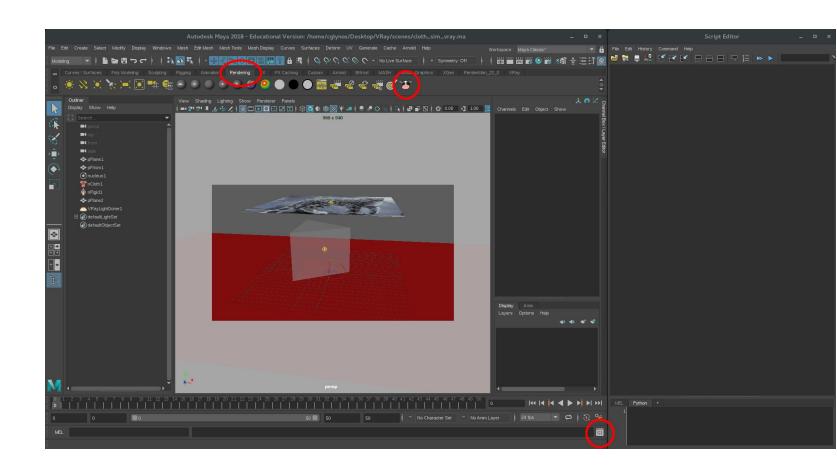
Check that your render settings are correct:

- Select the VRay renderer
- Make sure you have a name for the output renders
- Tick on Export a .vrscene file
- Do not give a file name for the .vrscene
- Check the format and frame padding
- Make sure your animation frames are correct
- Select the camera to render from
- Set the correct resolution



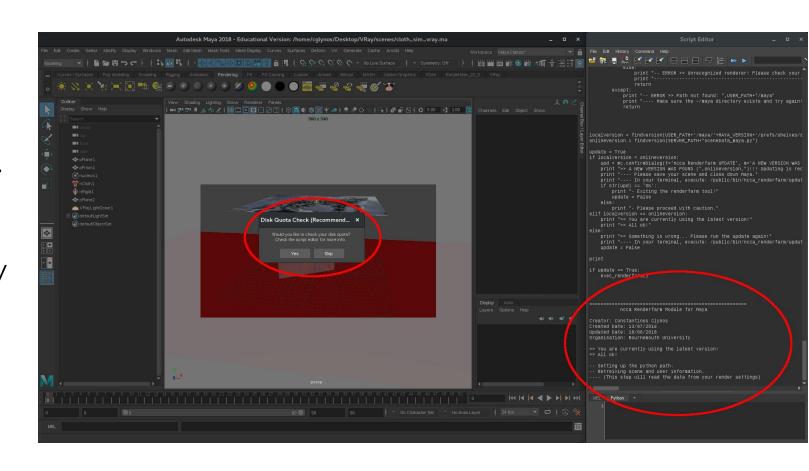
Let's render

- Press Ctrl + S to save the scene
- Open the Script Editor for debugging information
- Go to the rendering shelf
- Hit the cow!

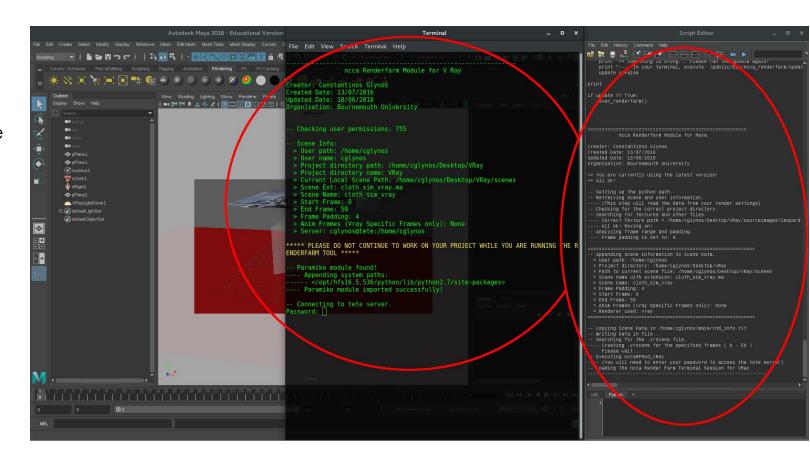


 Check your local disk space (quota), or skip if not needed.

 Check the script editor for any warnings about the version of the tool you are using.



- The tool will generate your.vrscene. If one exists, already it will ask you if you want it to be replaced. Otherwise, it will use the old .vrscene for your renders.
- A new terminal will appear which links to the renderfarm.
- Check the data passed on to the renderfarm by reading the script editor and the terminal. If not correct, just close the terminal to cancel the process.
- DO NOT USE MAYA OR CONTINUETO WORK ON YOUR SCENE WHILE YOU SUBMIT A JOB TO THE RENDERFARM.



Enter your password to continue.

 The tool will check if you have any existing directories with the same name on the server and prompt for action (replace or rename).

 It will also update your .vrscene file to match the paths of the renderfarm.

 Enter your password again to upload your project directory onto the tete server.

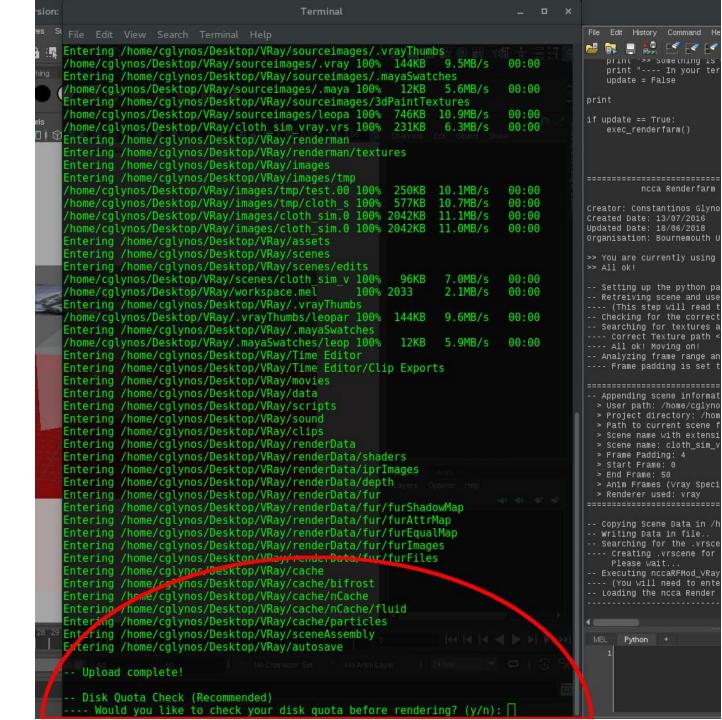
```
Creator: Constantinos Glynos
Created Date: 13/07/2016
Updated Date: 18/06/2018
                                                                                       updat
 rganisation: Bournemouth University
                                                                                    if update
  Checking user permissions: 755
   Scene Info:
  > User path: /home/cglynos
 > User name: cglynos
 > Project directory path: /home/cglynos/Desktop/VRay
 > Project directory name: VRay
 > Current Local Scene Path: /home/cglynos/Desktop/VRay/scenes
 > Scene Ext: cloth sim vray.ma
                                                                                    organisat
  Scene Name: cloth sim vray
 > Anim Frames (Vray Specific Frames only): None
  > Server: cglynos@tete:/home/cglynos
                                                                                     - Checki
***** PLEASE DO NOT CONTINUE TO WORK ON YOUR PROJECT WHILE YOU ARE RUNNING THE R
ENDERFARM TOOL *****
 Paramiko module round!
---- Appending ystem paths:
----- </opt/ifs16.5.536/python/lib/python2.7/site-packages>
---- Paramiko module imported successfully!
-- Conjecting to tete server.
   ooking for home directory on the server.
   All ok -> /home/cglynos
   Checking server for pre-existing projects.
   No other projects found with the same name.
  Moving on!
   .vrscene found at: /home/cglynos/Desktop/VRay/cloth sim vray.vrscene
                                                                                       Plea
 ----- replacing base path: img dir="/home/cglynos/Desktop/VRay/images/";

    Execut

   /render/cglynos/VRay
                                                                                     - Loadin
 ----- replacing base path: file="/home/cglynos/Desktop/VRay/sourceimages/leop
  /render/cglynos/VRay
 --- .vrscene updated successfully!
 - Uploading project tree as >> VRay
 --- This is a very important step. DO NOT interrupt this process.
-- Please wait for the files to be uploaded. DO NOT interrupt this process.
cglynos@tete's password:
```

 Once the files are uploaded, the tool will prompt for a quota check on the server.

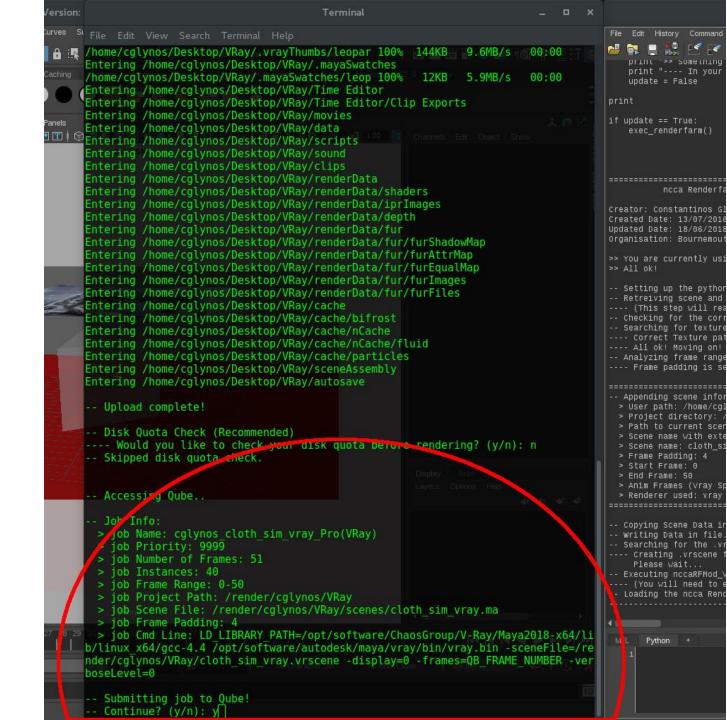
- If you do not have enough disk space (quota) available on the server, your renders will not be saved anywhere.
- Skip online quota check <u>iff</u> you are sure you have enough space available.



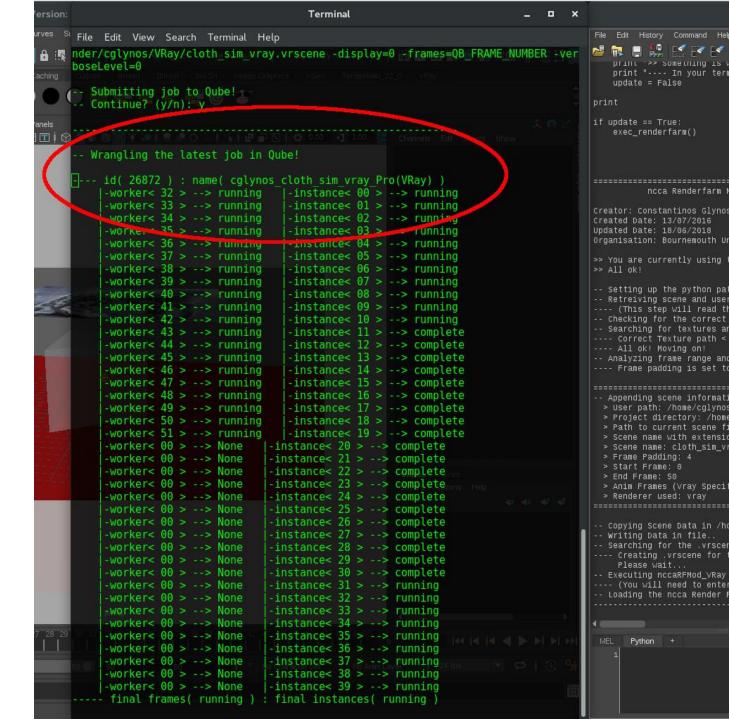
 The output images directory is set from within your .vrscene and project directory settings.

 Check the Job info data before submitting the job to Qube.

Type y and Enter to continue.



- Wrangle your renders from the terminal.
- At this point you can safely close the terminal and wrangle your renders from Qube. But it's advised that you leave the terminal open.
- Now we wait for it to finish.
- You can now continue to work on your scene.



Finishing off

 Once the renders are complete, the tool will prompt you to open the project directory on the server.

 Type y and Enter so that the tool can open your project directory on the server. Otherwise, type n and Enter.

 You can now close the terminal by pressing Enter again or by using the close button.

