ncca RenderFarm Tool

Houdini: Mantra \ HBatch

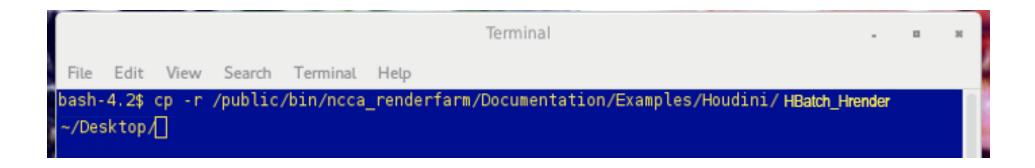
Constantinos Glynos Michail Agoulas



Copy the example scene

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

cp -r /public/bin/ncca_renderfarm/Documentation/Examples/Houdini/HBatch_HRender~/Desktop



Open Houdini

goHoudini &



Set project directory

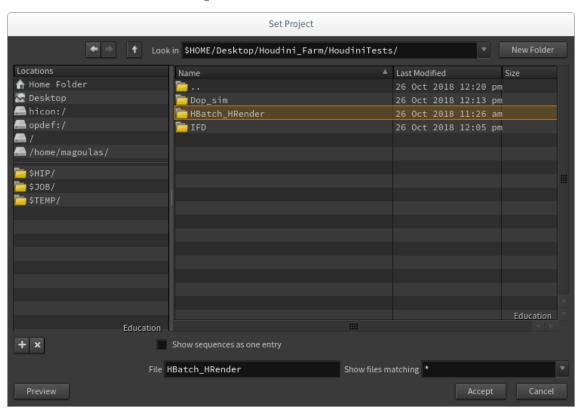
File -> Set Project...

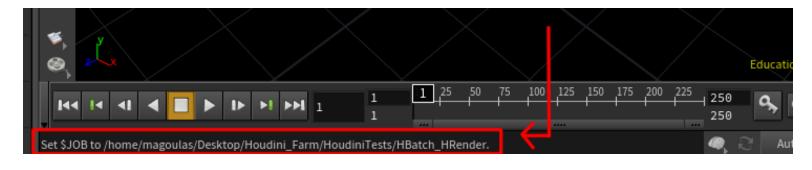
Select the directory which is parent to all the project data files and folders and click Accept.

Do not dive in the directory that you plan to store your .hip projects and project files.

Click Accept

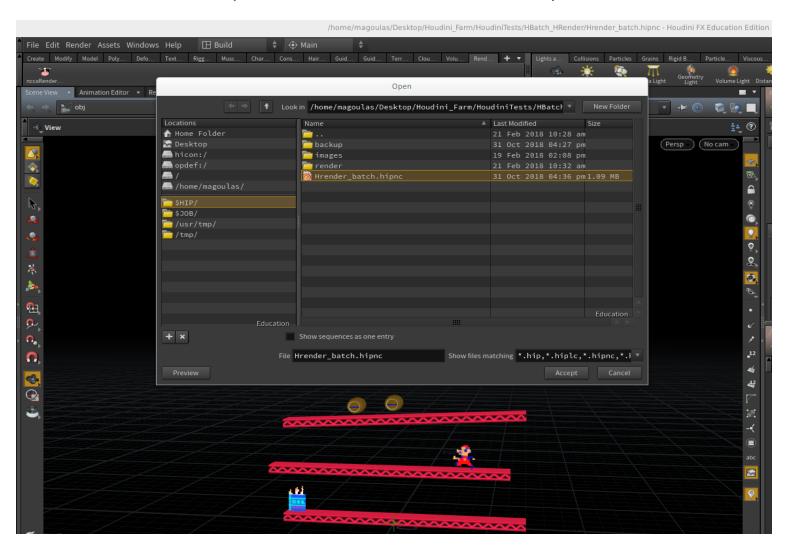
Now Houdini has set the folder of your project as the root folder.





Open the example scene

File -> Open -> Hrender_batch.hipnc



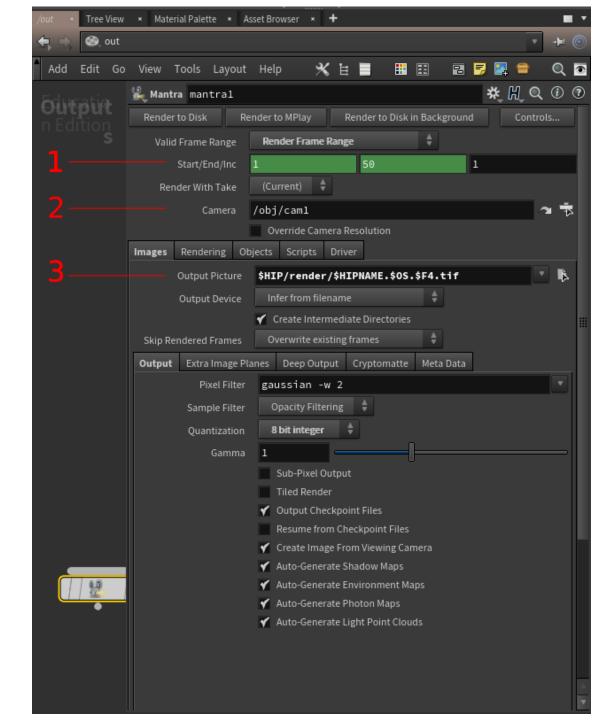
Check Mantra Settings

Check that your render settings are correct:

1. Select the desirable frame range

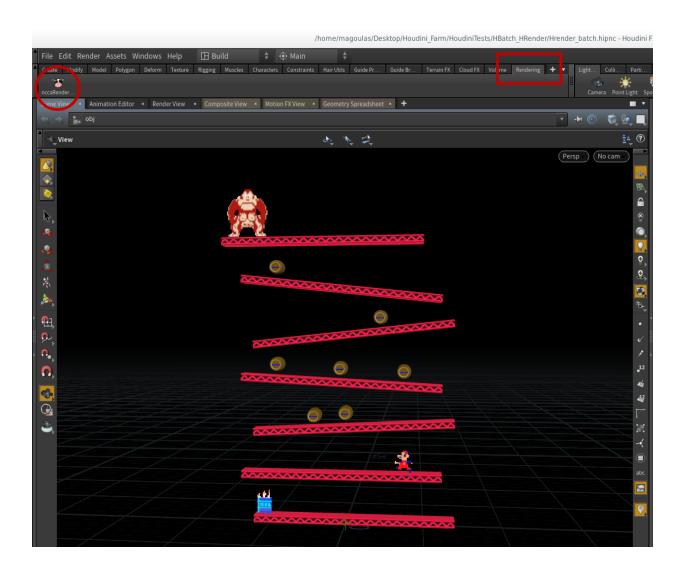
2. Select the take and the camera that you want to render from. (If you don't have a camera the render script will ask you to create one)

 Select the render output folder and file name (make sure that the path starts with \$HIP



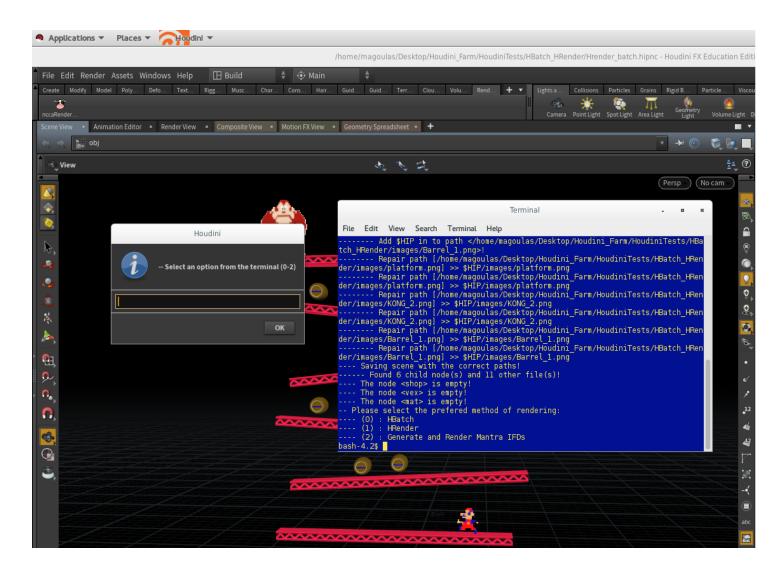
Let's render

- Press Ctrl + S to save the scene
- Go to the rendering shelf
- Hit the cow!



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

- Check the terminal for any warnings about the version of the tool you are using.
- We will choose the HBatch method by entering 0 in the window.



- Now the tool will ask you to enter your user password in order to connect to the tete server. It is the same as your student account.
- Once you enter your password the tool will start uploading the project files.
- Do not interrupt this process nor continue working on your project.

```
> Start Frame: 1
> End Frame: 50
> Frame Padding: 4
> Renderer Node: mantral
> Ifd info: ['False', '']
> Server: magoulas@tete:/home/magoulas

***** PLEASE DO NOT CONTINUE TO WORK ON YOUR PROJECT WHILE YOU ARE RUNNING THE R
ENDERFARM TOOL *****

-- Connecting to tete server.
Password:
```

```
Entering /home/magoulas/Desktop/Houdini Farm/HoudiniTests/HBatch_HRender/backup
/home/magoulas/Desktop/Houdini Farm/HoudiniTe 100% 1113KB
                                                            1.1MB/s
                                                                      00:00
/home/magoulas/Desktop/Houdini Farm/HoudiniTe 100% 1116KB
                                                            1.1MB/s
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/home/magoulas/Desktop/Houdini Farm/HoudiniTe 100% 1116KB
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/home/magoulas/Desktop/Houdini Farm/HoudiniTe 100% 1119KB
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/home/magoulas/Desktop/Houdini Farm/HoudiniTe 0%
                                                            0.0KB/s
                                                                      --:-- ETA
```

 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>if</u> you are sure you have enough space available.

```
Terminal
     Edit View Search Terminal
/home/magoulas/Desktop/Houdini Farm/HoudiniTe 100% 1116KB
                                                             1.1MB/s
                                                                       00:00
/home/magoulas/Desktop/Houdini Farm/HoudiniTe 100% 1116KB
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/home/magoulas/Desktop/Houdini Farm/HoudiniTe 100% 1119KB
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    Upload complete!

- Disk Quota Check (Recommended)
 -- Would you like to check your disk quota before rendering? (y/n):
```

 The output images directory is set from within your Mantra Settings.

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

Type y and Enter to continue.

```
Terminal
     Edit View Search Terminal Help
  Disk Ouota Check (Recommended)
 --- Would you like to check your disk quota before rendering? (y/n): n
 - Skipped disk quota check.
 - Accessing Qube..

    Job Info:

 > job Name: magoulas Hrender batch Pro(HBatch HRender)
 > job Priority: 9999
 > job Number of Frames: 50
 > job Instances: 40
 > job Frame Range: 1-50
 > job Frame Padding: 4
 > job Project Path: /render/magoulas/HBatch HRender
 > job Scene File: /render/magoulas/HBatch HRender/Hrender batch.hipnc
 > job Render EXE path: /opt/software/hfs16.5.536; source houding setup bash;
 > job Shell: /bin/bash
 > job Cmd Line: cd /opt/software/hfs16.5.536; source houdini setup bash; hbatc
 -R -c "render -V -f QB FRAME START QB FRAME END -i QB FRAME STEP mantral" /ren
der/magoulas/HBatch HRender/Hrender batch.hipnc
 - Submitting job to Qube!
  Continue? (v/n):
```

- 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.

```
Terminal
    Edit View Search Terminal Help
    -worker< 02 > --> pending
                                 -instance< 01 > --> running
    -worker< 03 > --> pending
                                  -instance< 02 > --> running
    -worker< 04 > --> pending
                                 -instance< 03 > --> running
    -worker< 05 > --> pending
                                 -instance< 04 > --> running
    -worker< 06 > --> pending
                                  -instance< 05 > --> running
    -worker< 07 > --> pending
                                 -instance< 06 > --> running
    -worker< 08 > --> pending
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    -worker< 10 > --> pending
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    -worker< 37 > --> pending
                                  -instance< 36 > --> pending
    -worker< 38 > --> pending
                                  -instance< 37 > --> pending
    -worker< 39 > --> pending
                                 -instance< 38 > --> pending
                                 -instance< 39 > --> pending
    -worker< 40 > --> pending
---- final frames( running ) : final instances( running )
```

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 might get asked to enter your student account credentials. Enter them so you can get access to the server.
- Navigate in the render folder or wherever you have told mantra to save the files and copy them to your computer.

