
Megascan Link Painter

Luca Faggion

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USER GUIDES

1.1 How to Install

1.1.1 Download the plugin

You can download the plugin in the [release](#) tab of the github project page

Build types

- Development Build

This build is always updated as soon a commit is pushed on the master branch

Warning: This builds can be very unstable or not working at all! So when use them expect them to not work or not behaving correctly

- Tagged Builds

The tagged builds are stable usable builds

1.1.2 Install the Plugin

The plugin is divided in two separated packages that work together to import the resources from [Quixel Bridge][quixelbridge] to [Substance Painter][sbspainter]

To install them unzip the archive in the Substance Painter Document directory that is located in:

Note: For Windows 10 %userprofile%\Documents\Allegorithmic\Substance Painter or %userprofile%\OneDrive\Documents\Allegorithmic\Substance Painter

Note: For Linux ~/Documents/Allegorithmic/Substance Painter

Note: For MacOS /Users/%username%/Documents/Allegorithmic/Substance Painter

If you want to install it by hand simply place respectively:

- the megascan_link_python folder to %substance painter documents path%\python\plugins\ folder
- the megascan_link_js folder to %substance painter documents path%\plugins\ folder

Note: if you had Substance Painter opened during the installation you should not be able to see the plugins listed to fix it simply click Reload Plugin Folder for both the Python plugin and the Javascript plugin

Warning: The plugins packages work together so both plugins should be enabled on Substance Painter!

1.2 How to Use

1.2.1 Basic Usage

In this gif is shown how to import Megascan Assets in an already opened project

Note:

Be sure to change the NORMAL MAP to the Correct COLOR SPACE which is OPENGL

1.2.2 Features

Create new project

You can create a new project by exporting from Quixel bridge an asset that contains a 3D Mesh.

Select meshes

When creating a new project if you exported from Quixel bridge multiple assets containing a 3D Mesh you can select which one use as a base mesh inside Substance Painter, the rest of the assets is imported as resources.

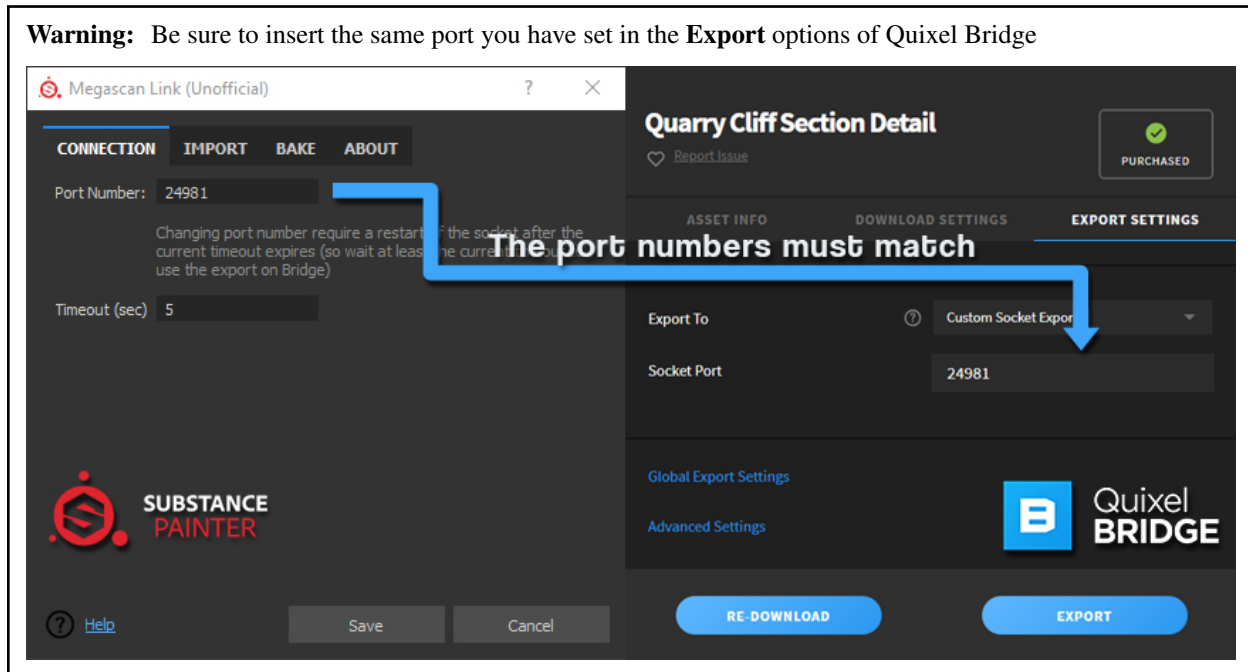
1.2.3 Plugin Settings

Here is the list of settings the plugin exposes

Connection options

This options are used for the connection with Quixel Bridge make sure that the **Port number** is equal to the Port number in the **Custom Socket Export** option in **Quixel Bridge**

Warning: Be sure to insert the same port you have set in the **Export** options of Quixel Bridge



Import options

This options are applied to every import of Megascan Assets

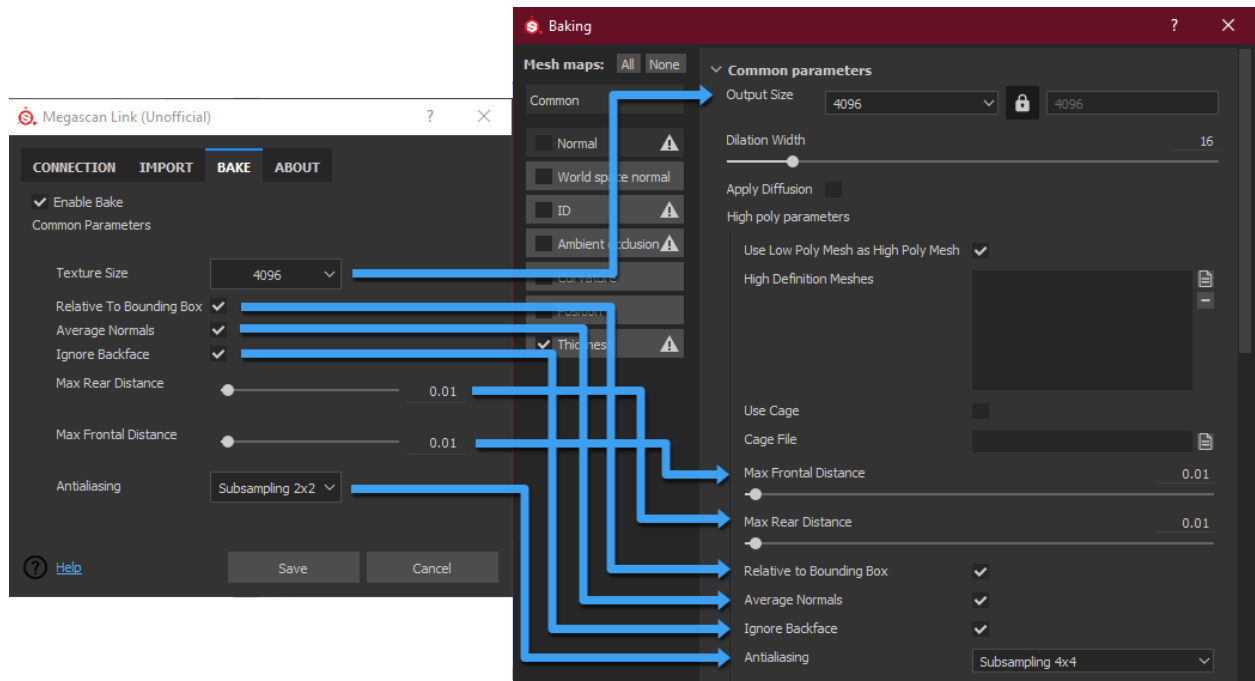
Bake option

Enabling this option allow the plugin to perform a bake, with the preset values, after a successful import and project creation.

The bake is performed only when creating a new project (**New Project** pressed during the import, if there is an already project open, or when importing a Megascan Asset containing a 3D Mesh when there is no project open).

If the imported Megascan Asset has a High poly mesh the **High Poly (HP)** mesh list is automatically populated with the correct meshes.

Note: The options are the same as the ones in the bake window of Substance Painter



DEVELOPER DOCS

2.1 Megascan Link Python Package

This package is the connection between Quixel Bridge and Substance Painter

The role of this package is to receive the JSON data from Bridge and send it over websocket to the JS counterpart that will use that data to import the needed resources and to store and manage the configuration settings (*Config Module*).

The plugin has been divided into two plugins *Megascan Link Python Package* and *Megascan Link Javascript Package* because of the current state of the Substance Painter API, what is possible with the JS API is not possible with the Python API and the other way around. Since this plugin makes use of some features that are not present in both API I had to split the plugin in half.

2.1.1 Python Subpackages

Ui package

UI Submodules

Ui Module contents

This package contains all the custom controls and the ui design files used to create all the dialogs and windows used by the Python plugin

Icon Module

Module containing classes for using and retrieving icons files

`megascan_link_python.ui.icon.getIcon(name: str) → str`

Return the path to the specified icon :param name: icon filename :type name: str :return: absolute path to the icon :rtype: str

`megascan_link_python.ui.icon.getIconAsQPixmap(name: str, scale: int = None) → PySide2.QtGui.QPixmap`

Retrieve a icon image as a QPixmap

Parameters

- **name** (*str*) – the icon filename
- **scale** (*int, optional*) – the desired size to apply to the icon (squared size), defaults to None

Returns the icon as a QPixmap

Return type QtGui.QPixmap

2.1.2 Python Submodules

2.1.3 Plugin Module contents

class megascan_link_python.Data

Bases: object

Dataclass used to store references to items so they dont get garbage collected

socket = None

toolbar = None

`megascan_link_python.close_plugin()`

Exit point of the plugin.

Here we perform the clean up before closing the plugin, stopping the socket thread and removing the toolbar action

`megascan_link_python.createToolBar()`

Creates the toolbar containing the action to open the Settings Dialog

`megascan_link_python.openSettingsDialog()`

Opens the Setings dialog for the user to change the socket port number and other import settings

`megascan_link_python.showErrorDialog()`

Opens the error dialog showing to the user that something went wrong during the installation of the needed dependencies.

And guiding the user to the manual dependencies installation guide on the documentation website

`megascan_link_python.start_plugin()`

Entry point of the plugin.

Here we set up all the needed fucntionalities like the log the socket thread and we add to the painter toolbar the user interface ation

2.1.4 Config Module

Module containing classes for managing the config settings files or related

class megascan_link_python.config.ConfigSettings

Bases: object

Class that manages a config file

classmethod checkConfigState()

Check if the current config file is opened if not and the file exist reads and load the content of it to the config parser

classmethod checkIfOptionIsSet(*cat: str, prop: str, fallback=""*) → bool

Helper function that will check if a propriety of a section is set or not by confronting it with the following values ["true", "yes", "y", "ok"]

Parameters

- **cat** (*str*) – Category name string

- **prop** (*str*) – Propriety of the category to check against

Returns if the propriety is set returns True, False otherwise

Return type bool

config = <configparser.ConfigParser object>

Config parser class instance

classmethod flush ()

Helper function used to write the content to file

classmethod getAsDict () → dict

Helper function that return the current config as a Python dictionary

Returns a dictionary of the current ini file

Return type dict

classmethod getConfigCategory (*cat: str*) → dict

Helper function to retrieve an entire category of the ini file

Parameters **cat** (*str*) – Category name string

Returns the dictionary containing the proprieties with their corrspective values, if the category does not exist and empty dictionary is returned

Return type str

classmethod getConfigSetting (*cat: str, prop: str, fallback=""*) → str

Helper function to retrieve a config propriety value.

Parameters

- **cat** (*str*) – Category name string
- **prop** (*str*) – Propriety of the category to retrieve

Returns the propriety value

Return type str

classmethod getConfigSettingAsList (*cat: str, prop: str, separator=''*) → List[str]

Helper function to retrieve a config option as a list

Parameters

- **cat** (*str*) – Category name string
- **prop** (*str*) – Propriety of the category to retrieve as list
- **separator** (*str, optional*) – the saparator character used to split values in the config string value, defaults to “,”

Returns the config settings as a List

Return type List[str]

opened = **False**

Current state of the config file

path = **None**

Contains the path to the ini config file (root dir of module) needs to be initialized

classmethod removeConfigSettings (*cat: str, prop: str, flush=True*) → bool

Helper function used to clear an option entry of a Section

Parameters

- **cat** (*str*) – Category name string
- **prop** (*str*) – Propriety of the category to remove
- **flush** (*bool*, *optional*) – If true it will immediatly update the file on disk, defaults to True

Returns return True if successfully delete False otherwise

Return type bool

classmethod **setIniFilePath** (*name: str*)

Set the filepath of the ini file

Parameters **name** (*str*) – the name of the config ini file (without extension)

classmethod **setUpInitialConfig** (*config: configparser.ConfigParser*)

Function to use a config parser instance to initialize the config file This will initialize the config file only if it does not exist

Parameters **config** (*configparser.ConfigParser*) – The config instance to use for populating the initial value of the config

classmethod **updateConfigSetting** (*cat: str, prop: str, value: str, flush=True*)

Helper function used to update a config propriety.

Parameters

- **cat** (*str*) – Category name string
- **prop** (*str*) – Propriety of the category to update
- **value** (*str*) – Value to associate to the propriety
- **flush** (*bool*, *optional*) – If true it will immediatly update the file on disk, defaults to True

2.1.5 Dialogs Module

Module which contains all the dialogs used by the plugin

The dialogs are generated using QtDesigner and are located under /ui/uiDesign and then converted to python code using the buildDialogs.py script

class megascan_link_python.dialogs.**DependencyErrorDialog** (*parent, helpLink=None*)

Bases: PySide2.QtWidgets.QDialog, megascan_link_python.ui.error_dialog.Ui_Dialog

Generic Error dialog for displaying error messages

close ()

Close the dialog and updates the ini file if necessary

openHelp ()

Summon a browser with the documentation page opened

show ()

Shows the error dialog only if the users has not checked before the “don’t show again” checkbox

staticMetaObject = <PySide2.QtCore.QMetaObject object>

```
class megascan_link_python.dialogs.SettingsDialog (socket: megas-
                                                    can_link_python.sockets.SocketThread,
                                                    parent=None)
Bases: PySide2.QtWidgets.QDialog, megascan_link_python.ui.settings_dialog.
Ui_Dialog
Dialog displayed to the user for editing the plugin settings
staticMetaObject = <PySide2.QtCore.QMetaObject object>
```

2.1.6 Log Module

This Module contains the logger facilities class

```
class megascan_link_python.log.LoggerLink
Bases: object
Class used to log messages to the log file
see: Log () for know how to use it to print also to the Python editor output

classmethod Log (msg: str, logLevel=20)
    Helper function used to log a message to a file or if specified in the config file with the outputConsole
    propriety also to the Python Editor output of Substance Designer

    Parameters
    • msg (str) – the message to print
    • logLevel (int, optional) – the log level to print with if it is lower than the current
      _logger level it would not be printed, defaults to logging.INFO

classmethod setLoggerName (name: str)
    Set the current session logger name do this before using the logger and once, subsequent calls to this
    methos will have no effect

    Parameters name (str) – the logger name

classmethod setUpLogger ()
    Method used to setup the current logger instance

    Links the handler to print to the log file (log config path: './referencefixer.log') and set up the format to
    print with
```

2.1.7 Sockets Module

Module containing classes for managing the comunincation with the socket thread and the main thread (in which we can use the SDAPI)

```
class megascan_link_python.sockets.SocketThread
Bases: PySide2.QtCore.QThread
Core plugin class that manages a socket process for receiving TCP packets from Quixel Bridge

close ()
    Set the needed flags to close the socket
```

Note: The close operation is performed only after the timeout duration

onDataReceived = <PySide2.QtCore.Signal object>

Signal that is fired whenever a packet is retrieved over the socket

Type `QtCore.Signal`

Parameters **object** – json dictionary containing the data

restart ()

Set the needed flags to perform a socket restart

Note: The restart is performed only after the timeout duration

run ()

This is the method that manages the socket lifetime process

To interact with the socket use the `close()` and `restart()` method instead

While this method is running the associated thread is kept alive **closing** the socket without requesting a **restart** will make this thread close too

The socket is listening on the port specified on the config file and it is restarted every time the timeout duration expires (also setted from the config file)

shouldClose = False

flag that indicates that the socket should stop in the next timeout frame

see `close()`

Warning: dont use this flag directly use instead the `close()` methods

shouldRestart = False

flag that indicates that a restart is been requested, the restart is processed in the next timeout frame, it is cleared (False) when the restart happen

used for example if you want to change the listening port or the timeout duration

see `restart()`

Warning: dont use this flag directly use instead the `restart()` method instead

started = False

variables that indicates if the socket has been started

but it is not guarantee that it is listening

staticMetaObject = <PySide2.QtCore.QMetaObject object>

2.1.8 Utilities Module

Contain Helper Functions used in common tasks

`megascan_link_python.utilities.getAbsCurrentPath (append: str) → str`

Simple function to get the current script path

Parameters `append (str)` – path or filename to add

Returns the full path plus the append param

Return type str

2.1.9 Websocket Link Module

Module containing classes used to send data over the JS Plugin

`class megascan_link_python.websocket_link.WebsocketLink (parent=None)`

Bases: `PySide2.QtCore.QObject`

Start up a single use websocket to send data over the JS plugin

sendDataToJs (*data: object*)

send the data to the JS plugin using a websocket with port 1212

Parameters `data (object)` – the json data to send

staticMetaObject = `<PySide2.QtCore.QMetaObject object>`

2.2 Megascan Link Javascript Package

This package is responsible to utilize the Substance Painter API to import the Megascan Assets into the current opened project.

It receives the data over websocket from the [Megascan Link Python Package](#).

2.2.1 Utility

checkIfSettingsIsSet (*setting*)

Helper function that will check if a propriety of a section is set or not by confronting it with the following values ["true", "yes", "y", "ok"]

Arguments

- **setting** (*String*) – String value to check

getHpMeshes (*asset*)

Extract for the lod list of an asset the High Poly meshes

Arguments

- **asset** (*Object*) – the asset from which extract the High Poly meshes

Returns Array – the list of High poly meshes paths

removeFromAssets (*asset, assets*)

Filter the Megascan Asset list removing a specific asset

Arguments

- **asset** (*Object*) – the asset to remove
- **assets** (*Array*) – the list of asset to filter

2.2.2 String Extensions

`String.format`

Simple extension to the String object that allow to format a string python style taken from [Stack-Overflow](#)

2.2.3 QML Modules

```
class main : public PainterPlugin
```

Public Functions

void **importResources** (*Object data*)

Import the Megascan Assets textures in the project and put them in the Megascan/{AssetName} path for each asset

Parameters

- `data`: Quixel Bridge Json data

void **setUpAndBake** (*Object asset*)

Set up the baking parameters based on the user config preset parameters and then perform the bake

Parameters

- `asset`: the asset to retrieve the bake data from

void **createProjectWithResources** (*Object asset, Array imports*)

Create a new project using the defined asset as the Mesh Asset

Parameters

- `asset`: Json data of the Mesh asset (Quixel Bridge)
- `imports`: Array of Json data of additional resources to import in the newly created project

boolean **checkForMeshAssets** (*Object data*)

Check if in the Bridge json data are present some Assets that have associated a Mesh Asset

Return returns True if there is an 3D Asset, False otherwise

Parameters

- `data`: Quixel Bridge Json data to check

Public Members

bool **projectCreated** **READ** **dummyGetter_projectCreated_ignore**

global flag that indicates that a project has been created

Object **settings** **READ** **dummyGetter_settings_ignore**

the settings values of the user config file

Object **meshAsset** **READ** **dummyGetter_meshAsset_ignore**

the current Megascan 3D asset used in the project

Private Members

var Component onCompleted

Simply indicates that the plugin has been loaded correctly

var onActiveTextureSetChanged

Used to set up the textures set resolution and channel if a new project is being create by this plugin Also set up and started, if requested in the config file, the baking process

AlgDialog saveError

Dialog showed to the user when the plugin can't save the current opened project

This happens for example when the users as project opened that has not been saved to disk

AlgSelectDialog **selectMesh**

Instance of *AlgSelectDialog*, this dialog is used for starting a new project with the mesh selected by the user from a list of meshes in the megascan data currently being imported, if the are none or only one 3D mesh this dialog is not showed

AlgNewProject **createProject**

Instance of *AlgNewProject*, this dialog is showed to the user if there is a 3D Mesh in the currently imported data.

As Substance Painter only supports a single mesh per project we ask the user if he want to create a new project with the the data he is currently importing.

This dialog can be suppressed with the config option `askcreateproject` to `False`

class AlgNewProject : public AlgDialog

This dialog is presented to the user when there is a 3D Mesh asset in the import data and the config option `askcreateproject` is set to `True`

The dialog asks the user if he want to import the assets bitmaps (since Painter only supports a single mesh per project) or wants to create a new project with one of them as the base mesh.

Public Functions

void openWithData (Object *data*)

Open the dialog feeding the JSON data coming from Quixel Bridge

Parameters

- `data`: the Quixel Bridge JSON data

Public Members

Object importData READ dummyGetter_importData_ignore

the JSON data currently being imported

Signals

void **importPressed** (var *importData*)

Emitted when the user press the **Import** button

Parameters

- *importData*: the JSON data currently being imported

void **newProjectPressed** (var *importData*)

Emitted when the user press the **New Project** button

Parameters

- *importData*: the JSON data currently being imported

Private Members

var **title**

The title of the dialog

var **visible**

Visibility of the dialog - default is false

var **width**

width of the dialog -size if fixed to 400x150

var **height**

height of the dialog -size if fixed to 400x150

var **maximumHeight**

is set to be equal to the *height* variable this blocks the user to resize the dialog

var **maximumWidth**

is set to be equal to the *width* variable this blocks the user to resize the dialog

var **minimumHeight**

is set to be equal to the *height* variable this blocks the user to resize the dialog

var **minimumWidth**

is set to be equal to the *width* variable this blocks the user to resize the dialog

AlgButton **importBtn**

Dialog Import button - emits the **importPressed** signal

AlgButton **newPrjBtn**

Dialog New Project button - emits the **newProjectPressed** signal

namespace **QtQuick**

namespace **Painter**

namespace **QtWebSockets**

namespace **AlgWidgets**

class **AlgSelectDialog** : public **AlgDialog**

This dialog is presented to the user if, when creating a new project, there is more than one 3D Mesh asset in the import data.

This dialogs allow the user to select a 3D Asset to use as the base mesh for the new project, if there are other 3D Assets only their bitmaps are imported.

Public Functions

void **addAssets** (assetsIn)

Add assets to the list widgets of the dialog

Parameters

- the: list of assets to add

void **openWithAssets** (assetsIn)

Shorthand function to open the dialog and populate the asset list

Parameters

- the: list of assets to add to the dialog list

Public Members

Object **assets** READ **dummyGetter_assets_ignore**

the list of 3d assets

Object **importData** READ **dummyGetter_importData_ignore**

the list of 3d assets

int **currentIndex** READ **dummyGetter_currentIndex_ignore**

the current index selected in the list

Private Members

var **title**

The title of the dialog

var **width**

width of the dialog -size if fixed to 400x300

var **height**

height of the dialog -size if fixed to 400x300

var **maximumHeight**

is set to be equal to the `height` variable this blocks the user to resize the dialog

var **maximumWidth**

is set to be equal to the `width` variable this blocks the user to resize the dialog

var **minimumHeight**

is set to be equal to the `height` variable this blocks the user to resize the dialog

var **minimumWidth**

is set to be equal to the `width` variable this blocks the user to resize the dialog

var **defaultButtonText**

the accept button text of the dialog - default is Select

ListView **assetListView**

The List widget (ListView QML)

ListModel **assetList**

The model of the list, it holds the data needed to populate the widget

Component **headerList**

The header of the list

Component **assetListDelegate**

This is component instantiated for each entry in the model (*assetList*)

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