

Substance Painter Custom Exporter

Goal: Automated way of exporting texture sets with consideration of Project requirements.

Key Features:

- Generate export path
- Validate Texture set Name and Resolution
- Support Multiple Asset Types and Export Presets
- Import Data from Spreadsheet data directly to painter for texture validation
- Generate Texture Set Name strings using the naming convention provided, leaving minimal room for error

Updates:

- [01.09.24] - Text Set Name string generator added. You can simply right click , select rename on any of the Textset names and select from a dynamic list of options that change based on Asset_Type.
- [02.09.24] - Spreadsheet data is available for import. The data will be converted from .xlsx file to JSON automatically. If it doesn't detect a JSON file it will throw up a warning and set some defaults.
- [03.09.24] - Tool fully supports UDIMs and different texture resolutions for each map. Will need to use a UDIM specified shader from the list.
- [04.09.24] - Tool now supports uneven textures and validates correctly. Aspect ratio is not maintained for textures when correcting the texture sizes at the moment.

Known Issues:

- Tool does not currently support material layering workflows.
- Aspect ratio is not maintained for textures when correcting the texture sizes for uneven textures at the moment.

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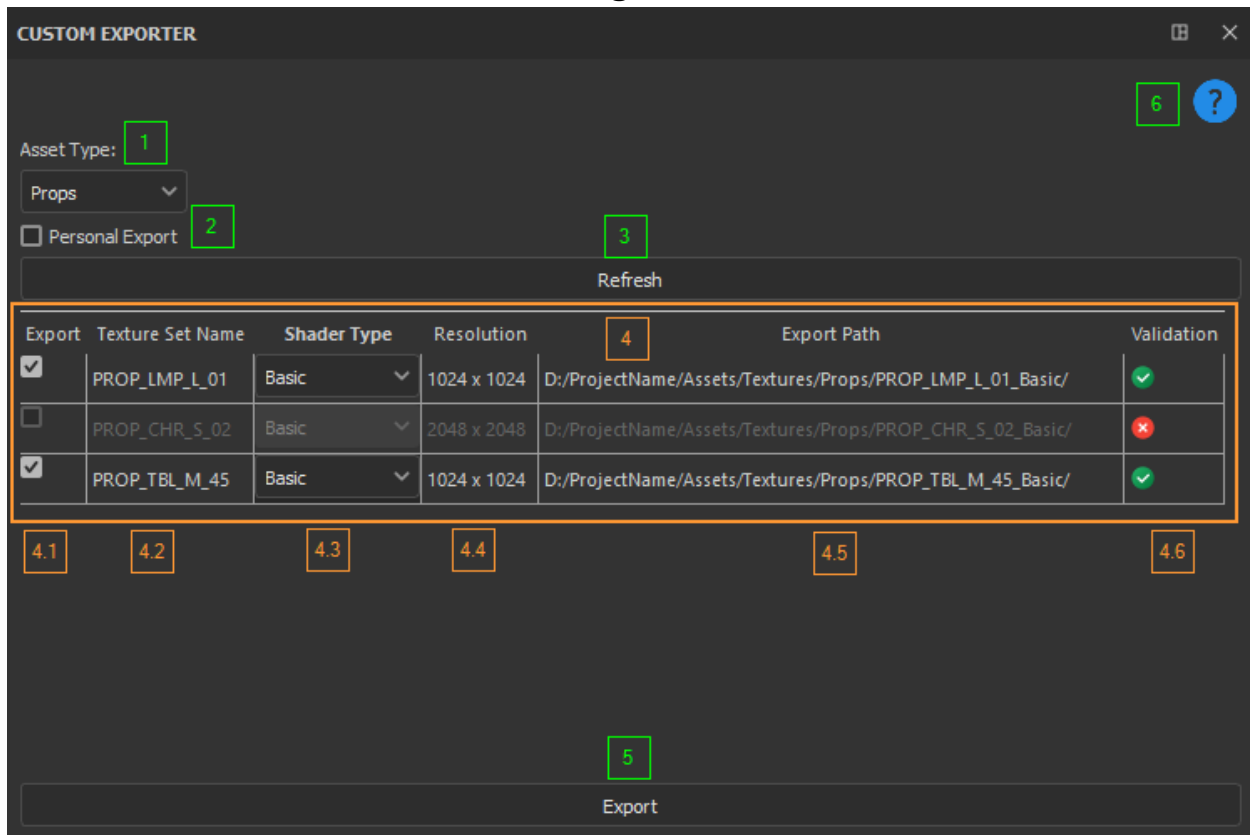
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UI overview

Main Widget Window



- 1. Asset Type.** Dropbox to specify Asset Type. It affects the Export Path generation process as well as Naming and Resolution validation.
- 2. Personal Export.** Checkbox to specify either the Export Path should be generated in Official project path (unchecked) or Personal (checked)
- 3. Refresh** button. Used to refresh the Table widget below.
- 4. Table widget** has 6 columns that contains information about texture sets currently present in the opened .spp project. One row per one texture set.
 - 4.1 Export checkbox.** Used to specify either the texture set in that row should be exported (checked) or ignored (unchecked). When validation is OK, the user can change the state of this checkbox. When validation is Failed, this checkbox becomes disabled and unchecked automatically to prevent export until validation is OK.

4.2 Texture Set Name. Name of the texture set, driven from the values specified in the Texture Set List tab. Not allowed for direct users edit.

4.3. Shader Type. Dropdown list to specify which shader (export preset) should be used during the export for texture set in that row. User can always modify it.

4.4. Resolution. Resolution of the texture set, driven from the values specified in the Texture Set Settings tab. Not allowed for direct users edit.

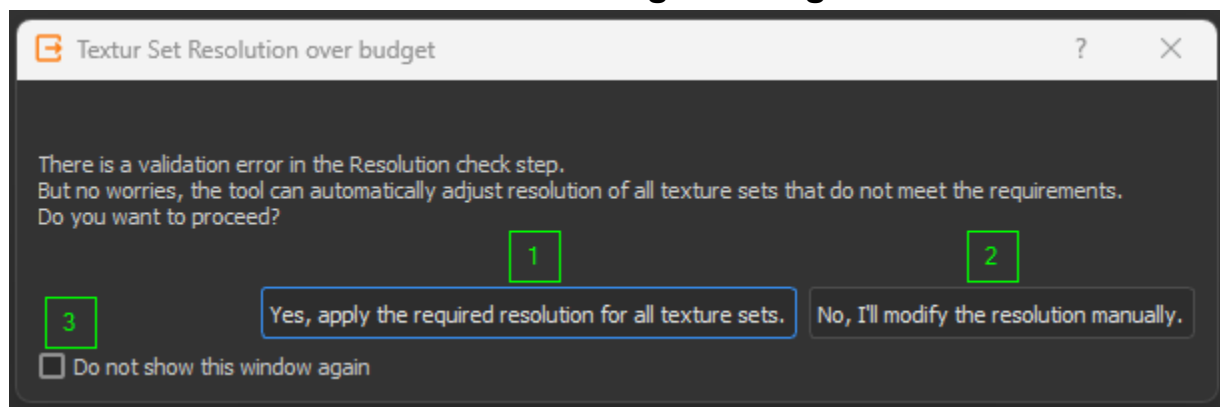
4.5 Export Path. Shows path in which textures of the texture set in that row will be exported to. Generated automatically based on the Asset Type, Shader Type and Texture Set name.

4.6. Validation. Shows status of Name and Resolution validations. Green checkmark icon represents Passed status, Red X – Failed.

5. Export button. Used to trigger exporting selected texture sets.

6. Help button. Used to open this help menu.

Resolution over budget Dialog Window



That Dialog Window appears if there is at least one texture set in the opened .spp project that exceeds the specified Resolution limitations.

1. Allows the tool to apply max required resolution for all texture sets listed in the opened .spp file.

2. Skips the automated resolution adjustment.

3. Checkbox to not show this dialog window further on even if there is resolution validation failed.

Hotkeys

- Alt + F1 – Open Help Menu.
- Alt + R – Refresh Table widget.
- Alt + E – Export selected Texture Sets.

Supported Asset Types

- Props;
- Weapons;
- Characters.

Supported Export Presets (Shader Types)

Basic

Originally intended for asset type Props.

Channels:

- Albedo (RGB)
- Normal (RBG)
- Roughness (Grayscale)
- Metallic (Grayscale)

Format: .png, 8 bits

Output Template: Custom_Basic.spexp

Armament

Originally intended for asset type Weapons.

Channels:

- Albedo (RGBA)
- Normal (RBG)
- Roughness (Grayscale)
- Metallic (Grayscale)
- Height (Grayscale)

Format: .tga, 8 bits

Output Template: Custom_Armament.spexp

Morph

Originally intended for asset type Characters.

Channels:

- Albedo (RGBA)
- Normal (RBG)
- Roughness (Grayscale)
- Metallic (Grayscale)
- Height (Grayscale)
- User0 (Grayscale). Custom channel for Details.

Format: .png, 8 bits

Output Template used: Custom_Characters.spexp

Validation rules

Texture Set Naming rules

General rules

- Name should consist of 4 Acronyms separated by underscore (“_”).
- IF using UDIM workflow, the output will consist of 5 Acronyms separated by underscore (“_”).
- Order of Acronyms is constant and important:
AssetType_AssetDetail1_AssetDetail2_AssetID
- IF using UDIMs you do not need to add the Acronym for UVTile
- AssetID has the same rules for all asset types and are the following:
2 numbers from 0 to 9 representing values from 00 to 99.

The Following is the default settings the tool will revert to if no Excel/JSON file is supplied

Naming rules for Props

- Asset Type is “PROP”
- AssetDetail1 describes the type of the prop. Valid options are:
 - “CHR” for Chair;
 - “TBL” for Table;
 - “LMP” for Lamp;
 - “WIN” for Window.
- AssetDetail2 describes the size of the prop. Valid options are:
 - “S” for Small;
 - “M” for Medium;
 - “L” for Large.

Valid examples of Texture Set name for **Props**:

PROP_CHR_S_01

PROP_TBL_M_02

Naming rules for Weapons

- Asset Type is “WPN”
- AssetDetail1 describes the type of the weapon. Valid options are:
 - “SWD” for Sword;
 - “BOW” for Bow;
 - “RFL” for Rifle;
 - “EXP” for Explosive.
- AssetDetail2 describes the rarity of the weapon. Valid options are:
 - “COM” for Common;
 - “RAR” for Rare;
 - “EPC” for Epic.

Valid examples of Texture Set name for **Weapons**:

WPN_BOW_COM_01

WPN_RLF_EPC_04

Naming rules for Characters

- Asset Type is “CHAR”
- AssetDetail1 describes the type of the character. Valid options are:
 - “PLR” for Player;
 - “ENM” for Enemy;
 - “CIV” for Civilian.
- AssetDetail2 describes the Gender of the character. Valid options are:
 - “ML” for Male;
 - “FL” for Female.

Valid examples of Texture Set name for **Weapons**:

CHAR_PLR_ML_01

CHAR_CIV_FM_05

Texture Set Resolution rules

Subject to Change, based on the Spreadsheet Rules provided, will default to :

Max allowed resolution for each asset type:

- **Props:** 1024 x 1024
- **Weapons:** 2048 x 2048
- **Characters:** 4096 x 4096

Lower resolution is allowed.

Contact point

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