

Figma Converter for Unity

for developers

3.0.0

D.A. Assets

Introduction

I strongly recommend reading this guide before using the asset.

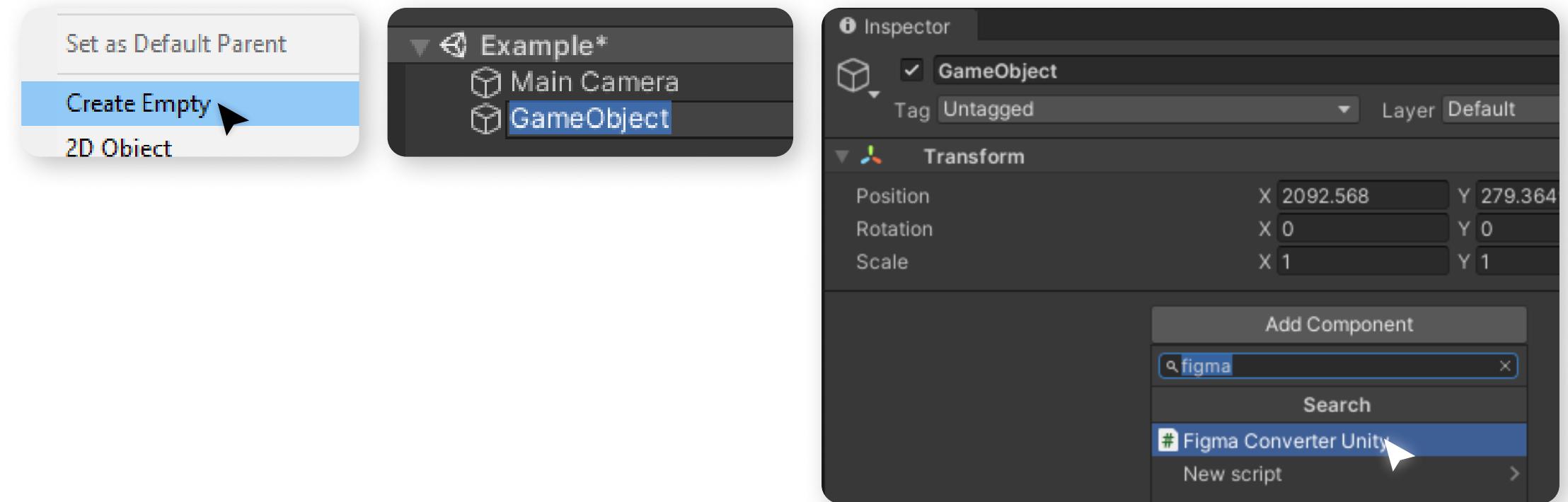
- 1 This asset can work in conjunction with other graphics assets using their capabilities.
Currently supported assets:
Shapes2D, TextMeshPro, True Shadow, Modern Procedural UI Kit, Procedural UI Image and I2Localization.
In order to work with these assets, you need to **buy** them from the **Asset Store** and **import** them **into your project**.
After you have done this, carefully **read** both **manuals** - for developers and for designers.
In the contents of these manuals, you will find **page numbers** for information on the **use** of these **assets** and their corresponding **tags**, if any.
- 2 If you encounter any errors while working with the asset, please write me about it at provided contacts.
I typically respond quickly to messages, offer assistance on an individual basis, and address any identified errors in the upcoming updates.
Usually, to reproduce your issue, I need access to your project in Figma.
If you are working in a company, you might need to coordinate granting Figma project access with your management.
I follow a confidentiality policy, your project will not be used for any purposes other than assisting with your issue.
In case you face issues, I kindly request that you refrain from leaving review on the Asset Store **without attempting to contact me** and resolve the problem you're experiencing.
- 3 You can send your comments and suggestions to the official Telegram of D.A. Assets - https://t.me/da_assets, as well as get help from members of our community and from me personally to the official group of this asset in the Telegram - https://t.me/figma_unity_converter.
- 4 Changelog: https://t.me/s/fcu_changelog

Contents

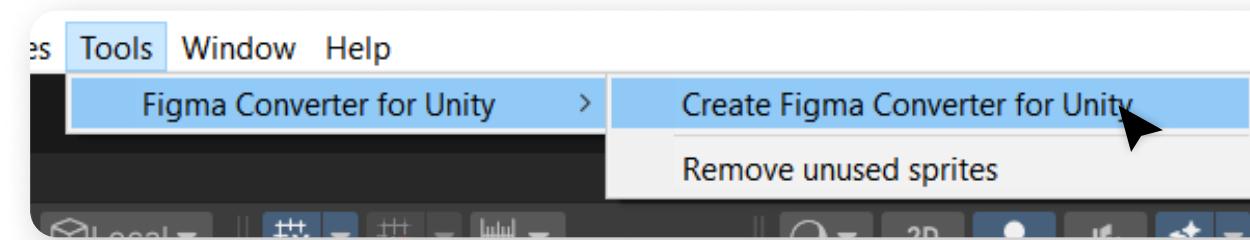
- 4 Scene setup
- 5 Auth
- 8 Google Fonts
- 9 Import frames
- 11 Creating prefabs
- 13 Import issues
- 16 Layout updating
- 17 Scene backups and project cache
- 19 Asset UI
- 20 Main settings tab
- 22 Unity components tab
- 24 Fonts tab
- 26 Dependencies tab
- 29 Shapes2D, MPUIKit, Procedural UI Image
- 30 TrueShadow
- 31 Localization
- 32 Context menu
- 35 Import events

Scene Setup

- 1 In order to start using the **FCU** asset, create an empty GameObject on the scene, and then add the **FigmaConverterUnity** script on it.

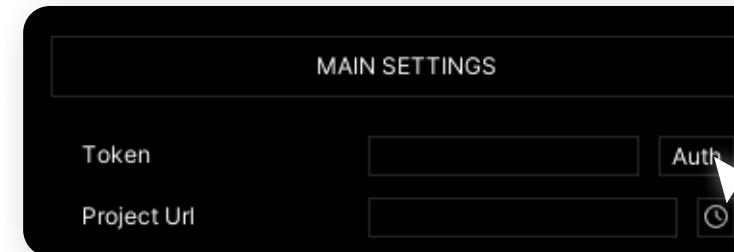


- 2 Also, you can create an asset in the scene using the menu.



1. Auth

- Now, you need to log in to your Figma account inside the asset. To do this, **open** the asset's **settings**, then open “**MAIN SETTINGS**” tab and press “**Auth**” button.

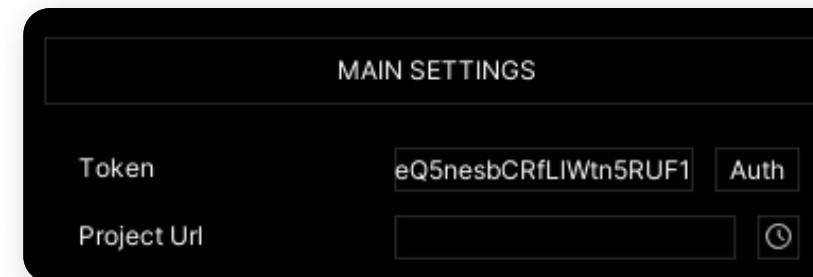


- 2 In the browser that opens, click on the "**Allow access**" button.

Figma to Unity Converter would like your permission to access your account. This allows Figma to Unity Converter to read, but not modify, files you have access to as well as read your name, email and profile image.

Allow access ▶

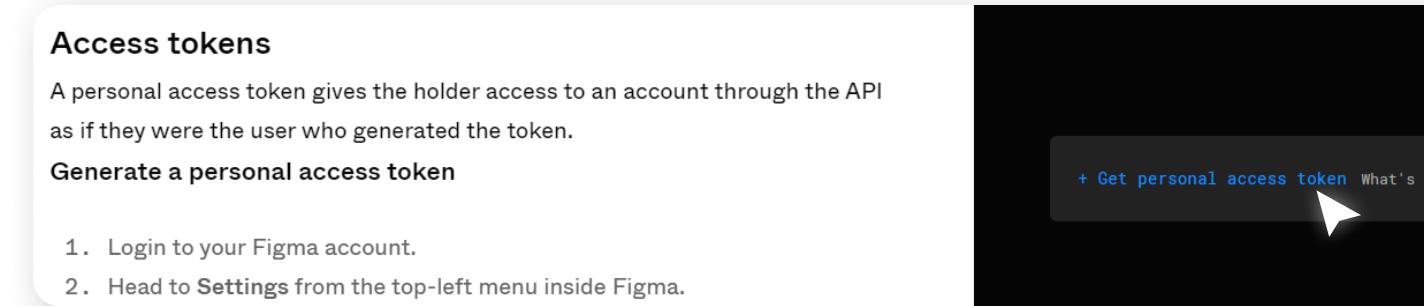
- 3 After that, under the logo you will see the name of your authorized account - this means that the authorization was successful, and now you can proceed with the import.



2. Auth

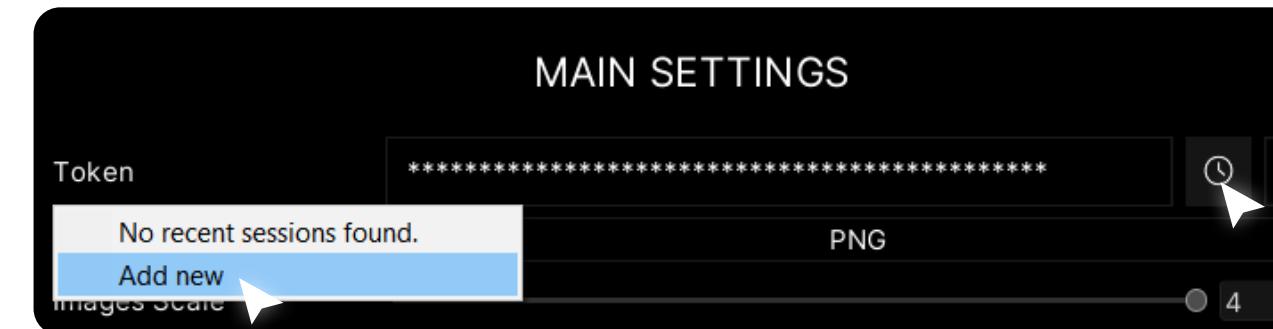
4

- If for some reason you are unable to obtain the token using the asset, you can get it on the Figma website. To do this, follow this link: <https://www.figma.com/developers/api#access-tokens> Please check if you are logged in to this website with the Figma account that has access to the project you want to import. To obtain the token, click on the "**Get personal access token**" button.



5

- Then, copy the obtained value and paste it into the "**Token**" field, click on the "**Recent Sessions**" button, and then click on the "**Add New**" button.



6

- After this, authentication will occur based on the entered token, and you will see a message in the console.

2. Auth

7

If you do not want to receive a token manually and when you try to receive a token using an asset, you see the error "**SocketException: An attempt was made to access a socket in a way forbidden by its access permissions**", you can use the solution suggested by one of the users of the asset.

The author of the asset has not tested this solution and **not responsible for the consequences of its use**.

Steps (for Windows):

1. Open CMD.exe as administrator and type "net stop winnat", then press Enter;
2. Type "netsh int ipv4 add excludedportrange protocol=tcp startport=1923 numberofports=1", then press Enter;
3. Type "net start winnat", then press Enter;
4. Try auth in the asset again.

Google Fonts

Some fonts might be missing from the Google Fonts repository.

In that case, they won't be downloaded automatically, and you will see an error in the console. You'll need to manually import those fonts into your project.

Fonts naming for latin subset fonts:

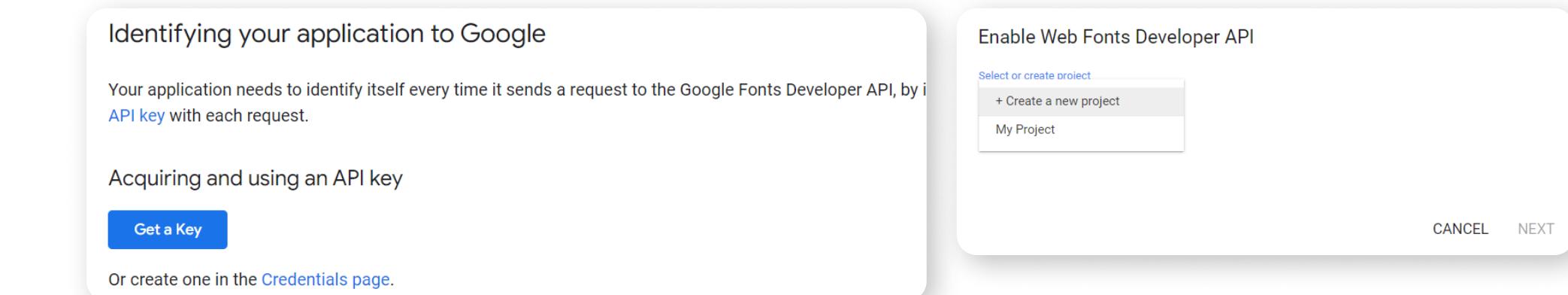
FontFamily Weight
Segoe UI Medium

Fonts naming for other subset fonts:

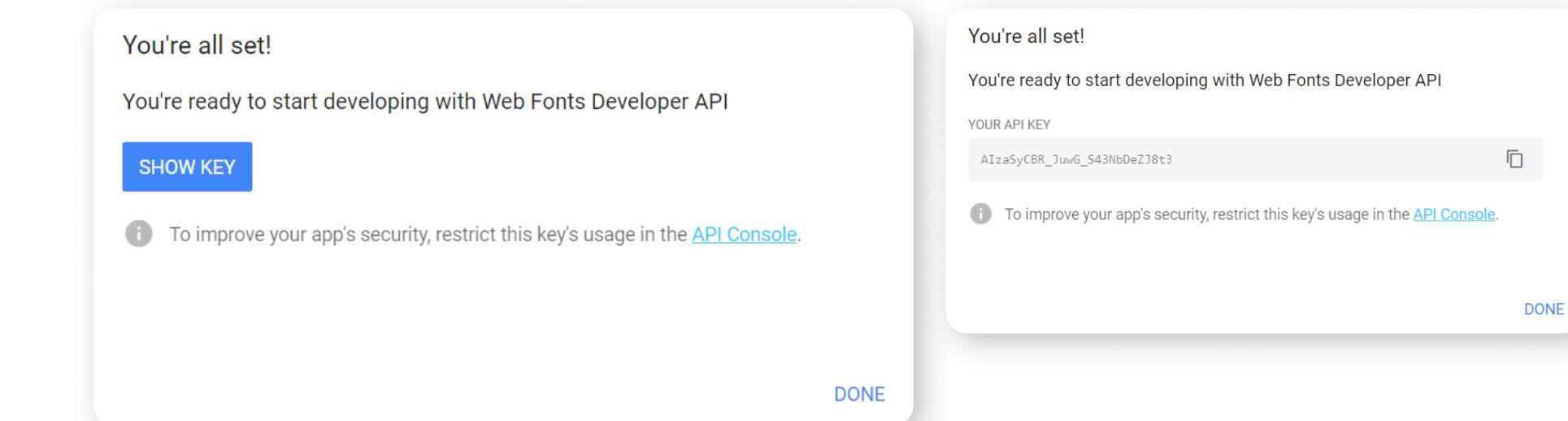
FontFamily Weight Subset
Segoe UI Medium Greek

D.A. Assets

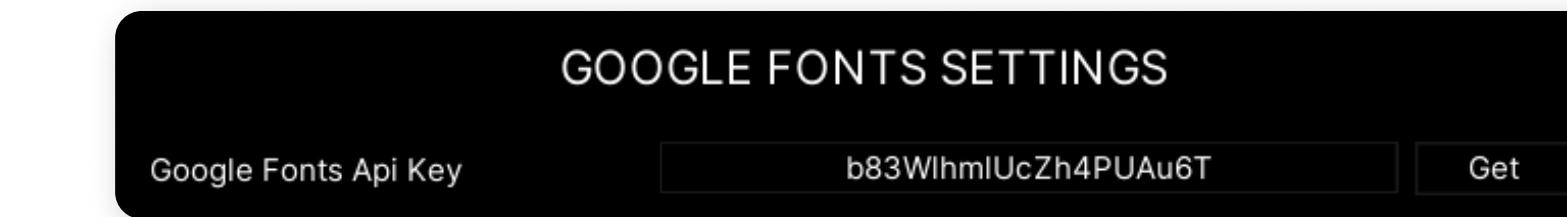
- 1 In order for the asset to automatically download missing fonts, you need to obtain a Google Fonts API key.
Go to: https://developers.google.com/fonts/docs/developer_api#identifying_your_application_to_google
- 2 Click on “Get a Key” button, then create new project or select existing.



- 3 Click on “SHOW KEY” button, then copy your api key.



- 4 Open the "FONTS" tab and paste the obtained key into the "Google Fonts Api Key".
Now your fonts will be automatically downloaded from the Google Fonts repository.

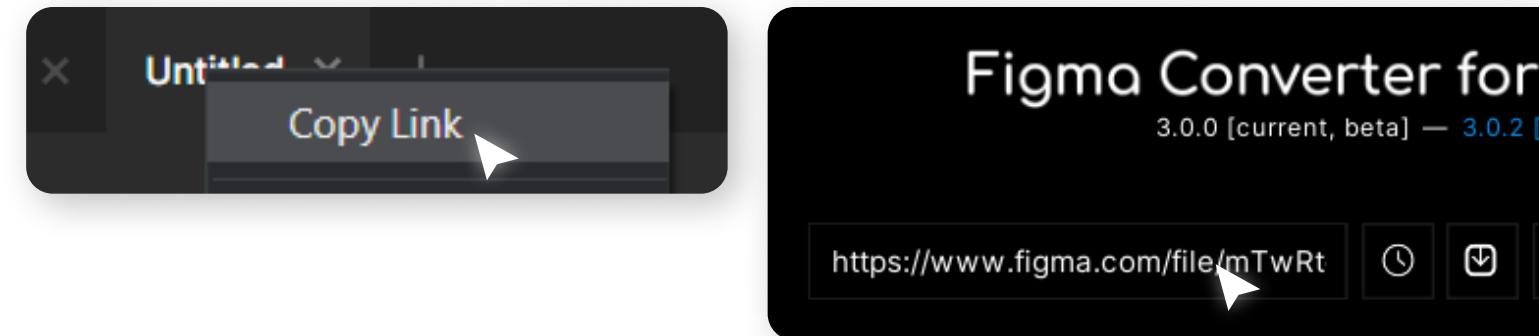


1. Import Frames

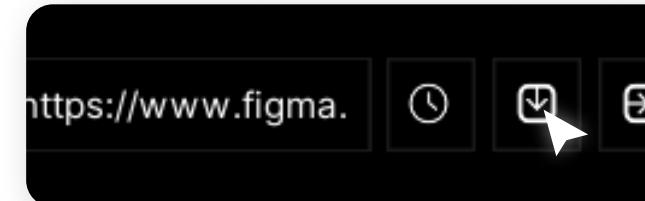
Before importing a layout, check **project permissions** for editing (see the **Teamwork** section in the **Manual for designers**).

- 1 Open the figma project you are about to import and get a link to it. It can be obtained by **right-clicking on the tab** with an open project.

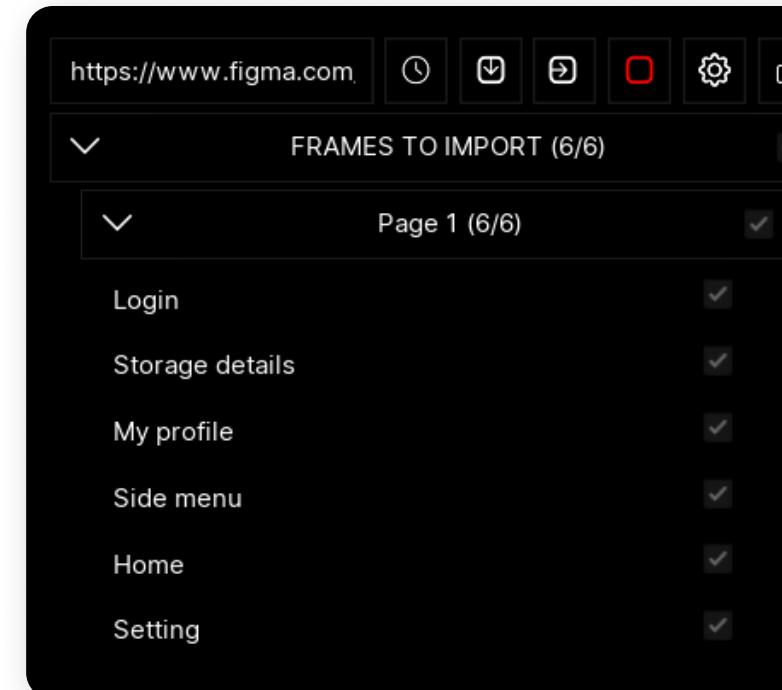
Example link: <https://www.figma.com/file/XXXXXXXXXXXXXXXXXX...>



- 2 Press "Download" button to download your project and get a list of its pages and frames.



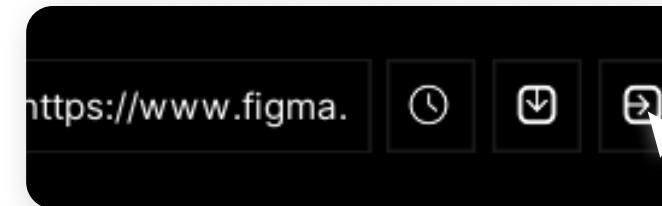
- 3 After the project has downloaded, you can select the pages and frames you want to import.



2. Import Frames

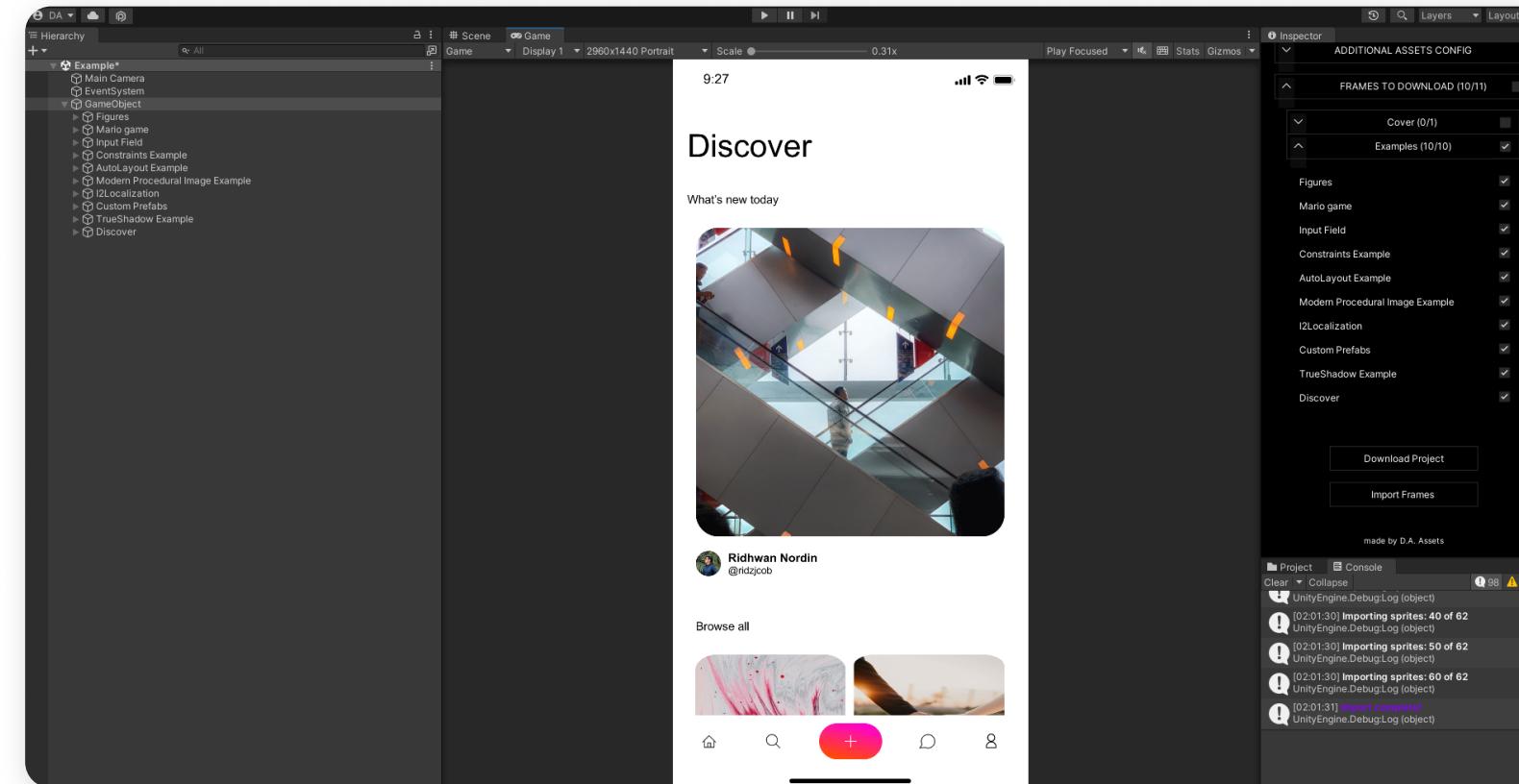
5

Press on the "Import" button, to start the import.



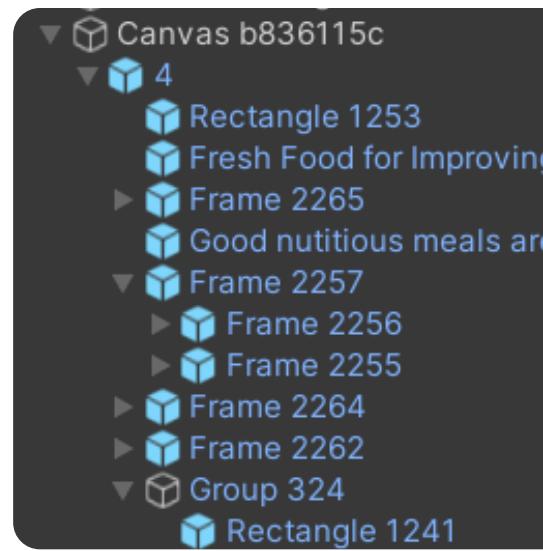
6

At the end of the import, you will see a message in the console - "**Import complete!**".



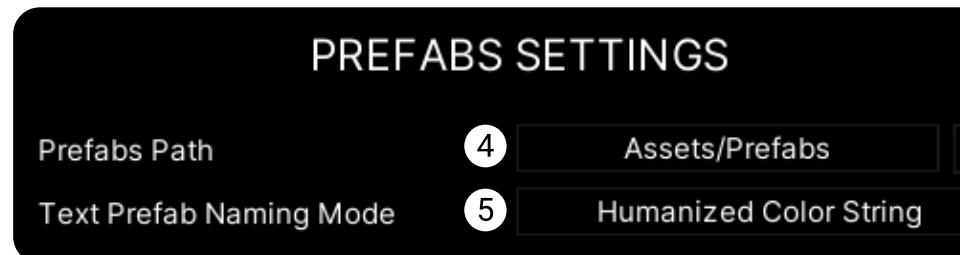
1. Creating prefabs

- To create prefabs from the components, just right-click on your canvas where the FigmaConverterUnity.cs script is added, then click “**Tools/Figma Converter for Unity/Create Prefabs**” item.



This feature is in beta state, so I recommend creating prefabs immediately after import, as there's an issue where prefabs might not be created otherwise. This problem will be solved in future versions, and you'll find information about it in the changelog.

- After you've created prefabs, when re-importing the project **without removing** the old components from the scene, you'll **only** be able to synchronize the **transform** of existing objects. **New objects inside prefabs won't be created**. Information about updating existing objects can be found in "**Layout updating**" section.
- In the "**PREFABS**" tab of the asset settings, you can find additional settings for prefab creation.



- Folder where prefabs will be saved when creating prefabs using the asset.
You can set your own folder by clicking the button with three dots.

2. Creating prefabs

5

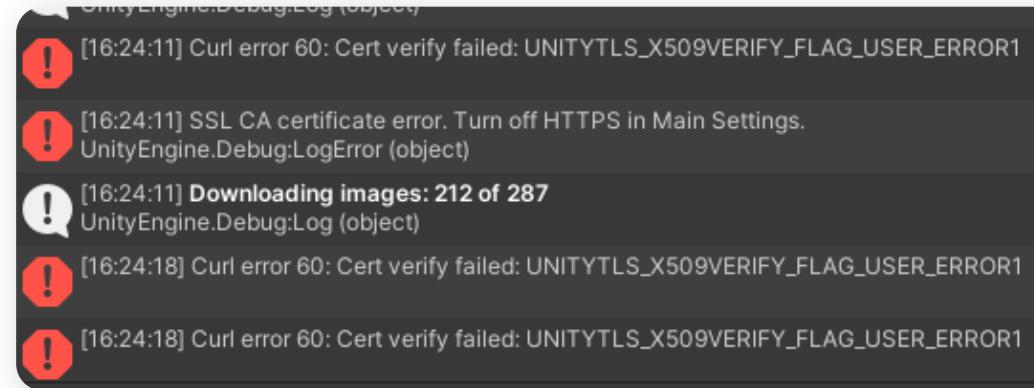
Naming type for text prefabs. Modes:

- **Humanized Color String** - The name of the prefab includes the name of the most suitable color, which is determined automatically.
Example of a name: "TextMeshPro white 12px".
- **Humanized Color HEX** - The color is indicated in HEX format in the prefab name.
Example of a name: "TextMeshPro #0C8CE9 12px".
- **Figma** - The text is named the same as its component in Figma.

Import Issues

This section will be updated.

- 1 My frame doesn't look the same after import as it does in Figma's layout. Why?
The answer to this question can be found in the "**Layout Rules**" section of the **Manual for designers**.
- 2 My components merged into a **single image**, and I want to separate them.
My components consist of **several images**, and I want to combine them into one.
You will find the solution to this problem in the "**Naming and tags**" section of the **Manual for designers**.
- 3 "**Either this file doesn't exist or you don't have permission to view it. Ask the file owner to verify the link and/or update permissions**".
If you see this error, you need to read section "**Teamwork**" in the "**Manual for designers.pdf**".
"**Teamwork**" section of the designer guide will **help you if all the images** in the imported frame **are missing**.
- 4 If you see these errors, you may have reached your API request limit.



You can reach the limit on Figma API requests, which will prevent you from importing your frames for a while.

To avoid this, follow these guidelines:

- Don't store more than **25** frames in your project;
- Don't store design system components in your project if there are a lot of them;
- Export your project as a ***.fig** file. If it's over **15 megabytes**, create a new project and move into it only the frames you want to import now.

If you've reached the limit, you'll need to wait a while to be able to import frames again, or create a new project.

These are not requirements, but recommendations that based on personal experience.

Import Issues

5

- If you encounter this error while downloading the project, try downloading it again.
If that doesn't help, please contact the developer for assistance.



```
[18:06:39] System.InvalidCastException: The input json does not match the target type.  
at DA_Assets.Shared.DAJsonDeserializer.FromJson[T] (System.String json, System.Int32& progressPe  
at DA_Assets.Shared.DAJsonDeserializer+<>c__DisplayClass1_0`1[T].<FromJson>b__0 () [0x00002] in
```

6

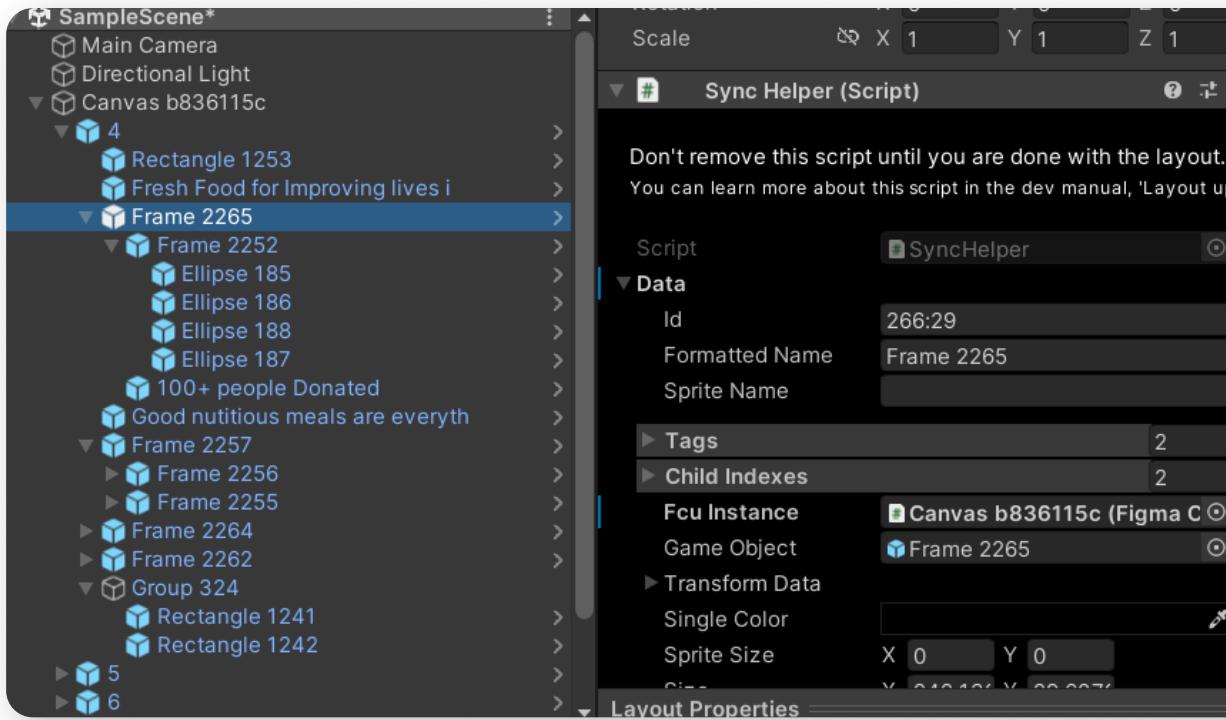
- If you encounter errors and the frames not displaying in Unity 2022 or later **after creating prefabs**, try saving the scene and then reopening it. This should make the frames reappear on the scene, and the errors should disappear. This bug will be fixed in upcoming updates.

You have read the basic manual

Below is extended information about the asset's capabilities, function descriptions, usage nuances, and solutions to potential issues.

1. Layout updating

- After importing the project, a script "SyncHelper.cs" will be added to all imported objects. This script is needed to synchronize objects between Figma and Unity during the import.



- You can perform a re-import of your project to update the transforms and properties of objects (color, text), as well as add new objects and remove missing ones.
Keep in mind that if you import two different projects into the same canvas, during the second import, the asset will consider those objects missing in the second project, meaning they will be deleted.
To avoid this, import different projects on separate canvases using distinct FigmaConverterUnity.cs scripts.
Don't worry if something goes wrong - the asset automatically creates backups of your scene with each import and before creating prefabs, more details in the "**Backups**" section.
- If you've created prefabs from your imported objects, during subsequent imports, you'll be able to update only their transforms and properties. New objects within the prefabs won't be added.
- Avoid creating duplicates of objects with the same "SyncHelper.cs" script in your Unity scene.
To duplicate an object, create its duplicate in Figma, and then repeat the import process.

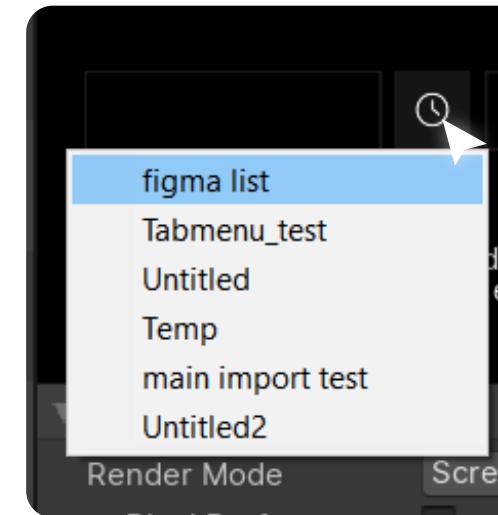
2. Layout updating

- 5 Do not remove the "**SyncHelper.cs**" scripts until you have finished importing your project from Figma to Unity.
- 6 After you've completed your work on the project and are sure you won't be updating it further, you can remove the "**SyncHelper.cs**" scripts from your objects using the corresponding function in the asset's context menu (more details in the "**Context Menu**" section).

Scene backups and project cache

- 1 The folder with backups of your active scene is located here: **Library\Backup\Scene**
- 2 Backups are automatically created before each import and before creating prefabs.
- 3 A backup is created for a previously saved local scene file. If you see a asterisk (*) next to the project name in the Unity interface, it indicates that changes you made to the scene without saving it will not be included in the backup.

- 1 With each project download, the transform and properties of objects from your Figma project are cached. To avoid downloading it again, you can choose the cached version from the dropdown menu.



Asset UI



- 1 Link to your project in figma.
- 2 Open the list of cached projects that you have previously imported.
From the list, **you can select the project** you want to import.
- 3 Download the project from the link.
All downloaded projects are automatically cached.
- 4 Import selected frames from the downloaded project.
- 5 Stop import.
- 6 Open asset settings.
- 7 Switch the asset display mode. Available modes:
 - In the inspector
 - Windowed
- 8 Label displaying the current and latest version of the asset.

If the version is colored blue, it means that too much time has passed since the release of the latest version, and you are recommended to update the asset.

If the version is colored red, it indicates that it contains errors, and it is strongly recommended to update the asset.

If you hover your cursor over the version, you will see a tooltip with detailed information about that version.

MAIN SETTINGS**UNITY COMPONENTS****FONTS****PREFABS****IMPORT EVENTS****DEPENDENCIES****DEBUG****MAIN SETTINGS**

Token

1

 Auth

Images Format

2

 PNG

Images Scale

3

 4

Use I2Localization

4

 DISABLED

Sprites Path

5

 Assets\Sprites ...

Redownload Sprites

6

 DISABLED

Raw Import

7

 ENABLED

Order Number

8

 Verify

Main Settings Tab

- 1 The **token** of your account, which is **necessary for downloading** content from Figma.
- 2 The format of the downloaded images. Can be **PNG** or **JPG**.
- 3 The scale of the downloaded images. This option is identical to the same option when exporting image from Figma.
- 4 This function automatically **adds a localization script** from the "**I2Localization**" asset and **generates a key** for it **based on the name** of the text component in Figma. After that, it **saves** the current **text** and its key as English localization in an automatically generated localization file.
This function only **works if you have the "I2Localization" asset installed**.
You can find **more information** about this on the "**Localization**" slide.
- 5 The **path** to the folder where the **sprites** are downloaded. You can **set your own path** by clicking the button with **three dots**.
- 6 Check this option if the figma layout elements have **changed since the export** and you need to **overwrite** them when you **re-export**. Also, you can delete the changed images manually and start exporting from scratch with the option disabled, in this case, the existing images will not be overwritten, but the images that have been deleted will be downloaded if it's are still in the figma layout.
- 7 If **ENABLED**, your sprites will be **downloaded** and **overwritten** **every time** the project is **imported**.
If **DISABLED**, **and if the sprite already exists** and its component in Figma **hasn't been modified**, it **won't be downloaded** again. The **default** value is "**DISABLED**".
The function is in beta stage, and errors may occur during its using.
- 8 Order Number **required for asset license activation**.

MAIN SETTINGS

UNITY COMPONENTS

FONTS

PREFABS

IMPORT EVENTS

DEPENDENCIES

DEBUG

IMPORT COMPONENTS

Image Component

1

UNITYIMAGE

Text Component

2

UNITYTEXT

Shadow Type

3

FIGMA

Button Component

4

UNITYBUTTON

5 UNITY IMAGE SETTINGS

Type

SIMPLE

Raycast Target

ENABLED

Preserve Aspect

ENABLED

Raycast Padding

X 0 Y 0 Z 0 W 0

Maskable

ENABLED

6 UNITY TEXT SETTINGS

Best Fit

ENABLED

Line Spacing

1

Horizontal Overflow

WRAP

Vertical Overflow

TRUNCATE

Unity Components Tab

- 1 The component that will be drawn on the scene when importing **images** from Figma.
Available components:
 - **UNITY IMAGE** (built-in)
 - **SHAPE** (need **Shapes2D** asset)
 - **MPIMAGE** (need **Modern Procedural UI Kit** asset)
 - **PROCEDURAL IMAGE** (need **Procedural UI Image** asset)
- 2 The component that will be drawn on the scene when importing **texts** from Figma.
Available components:
 - **UNITY TEXT** (built-in)
 - **TEXTMESHPRO** (need **TextMeshPro** asset)
- 3 The asset supports two methods of importing shadow components:
 - **FIGMA**: The shadow is part of the downloaded sprite.
 - **TRUESHADOW**: The shadow is **procedurally rendered** using the asset.
- 4 The component that will be drawn on the scene when importing components with the "**btn**" tag from Figma.
Available components:
 - **UNITY BUTTON** (built-in)
 - **DABUTTON** (replacement of the legacy **FCU_Button** script, will be available in future versions)
- 5 The settings duplicate the settings of the **UnityEngine.UI.Image** component (or another text rendering asset you've chosen) and **apply to all the image components** created during project import.
You can find a description of these settings in the official Unity documentation:
<https://docs.unity3d.com/Packages/com.unity.ugui@2.0/manual/script-Image.html>
- 6 Same as in point 5, but for text components.
Unity documentation:
<https://docs.unity3d.com/Packages/com.unity.ugui@2.0/manual/script-Text.html>

MAIN SETTINGS

UNITY COMPONENTS

FONTS

PREFABS

IMPORT EVENTS

DEPENDENCIES

DEBUG

1 TTF Fonts Path

Assets/Fonts/Ttf

...

Add TTF fonts from selected folder

2 ► Ttf Fonts 0

3 TMP Fonts Path

Assets/Fonts/Sdf

...

Add TMP fonts from selected folder

4 ► Tmp Fonts 0

GOOGLE FONTS SETTINGS

5 Google Fonts Api Key

Get

6 Font Subsets

Latin

7 FONT ASSET CREATOR SETTINGS

Sampling Point Size

90

Atlas Padding

5

Render Mode

SDFAA

Atlas Resolution

X 512

Y 512

Atlas Population Mode

DYNAMIC

Enable Multi Atlas Support

ENABLED

8

Download 'UnityText' fonts from project

Fonts Tab

- 1 Folder containing your **TTF** fonts. Additionally, any missing **TTF** fonts for the project will be downloaded into this folder (provided that you've set up the **Google Fonts API Key**, more information below).
You can set your own folder by clicking the button with three dots.
- 2 Serialized array with your **TTF** fonts. Add your fonts to it so that they are used when importing the Figma project.
You can manually add your fonts or use the "**Add TTF fonts**" button which, when pressed, will add fonts from the folder specified in the "**TTF Fonts Path**" field to the array.
- 3 Same as in **point 1**, but for **TextMeshPro** fonts.
This setting is **visible** only if you have **imported** the **TextMeshPro** asset.
- 4 Same as in **point 2**, but for **TextMeshPro** fonts.
This setting is **visible** only if you have **imported** the **TextMeshPro** asset.
- 5 API key **required for downloading missing fonts** from the Google repository. More details about this can be found in the "**Google Fonts**" section.
- 6 If necessary, you can select **multiple language groups** if the "Latin" group doesn't contain the glyphs you need.
When selecting multiple groups, multiple fonts of the same family containing different glyph tables will be downloaded.
You can utilize these tables within a **single font** by using the **TextMeshPro** asset (more details below).
- 7 Settings same to the settings of the **Font Asset Creator** utility.
These settings are **used when automatically generating missing TextMeshPro fonts**.
You can find the description of these settings for your Unity version in the **official documentation**:
<https://docs.unity3d.com/Packages/com.unity.textmeshpro@3.2/manual/FontAssetsCreator.html>
- 8 Button for **downloading** and generating **missing fonts without importing frames**.
To use the button, you **need to select** a text **component** in the "**UNITY COMPONENTS**" tab, and then download the project using the download button (the import button does not need to be pressed).

MAIN SETTINGS

UNITY COMPONENTS

FONTS

PREFABS

IMPORT EVENTS

DEPENDENCIES

DEBUG

ASSET DEPENDENCIES

TextMeshPro

ENABLED

TrueShadow

DISABLED

MPUIKit

DISABLED

Procedural UI Image

DISABLED

I2Localization

DISABLED

Shapes2D

DISABLED

DAButton

DISABLED

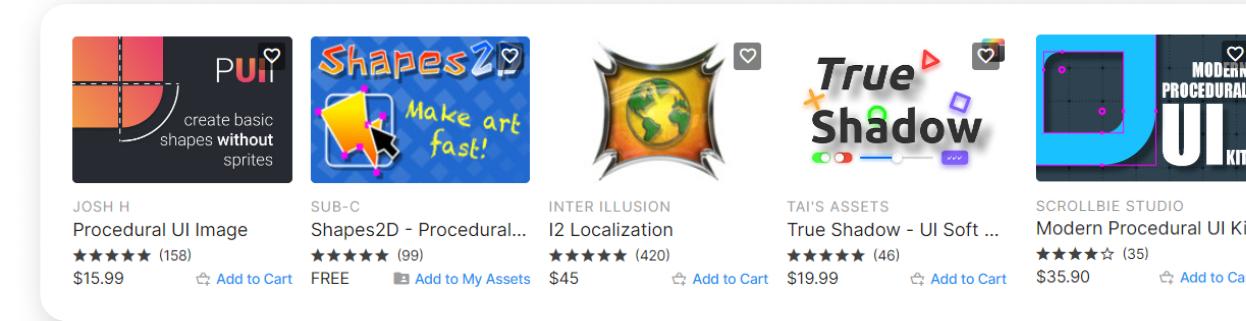
Apply

1. Dependencies

1

By using additional assets, you can:

- **avoid blurring fonts with "TextMeshPro";**
- **reduce application weight** with one of the **procedural image** assets;
- ease the **localization** process with "**I2Localization**".



2

Before these assets can be **activated**, it's **must** be **imported** into the project.

3

Assets are automatically activated after being imported into the project, but if this didn't happen, use the manual switching according to the following scheme:
switch to "**ENABLED**" if asset is imported.
switch to "**DISABLED**" if the asset is not imported.

4

After removing an additional asset from the project, **disable it manually**.

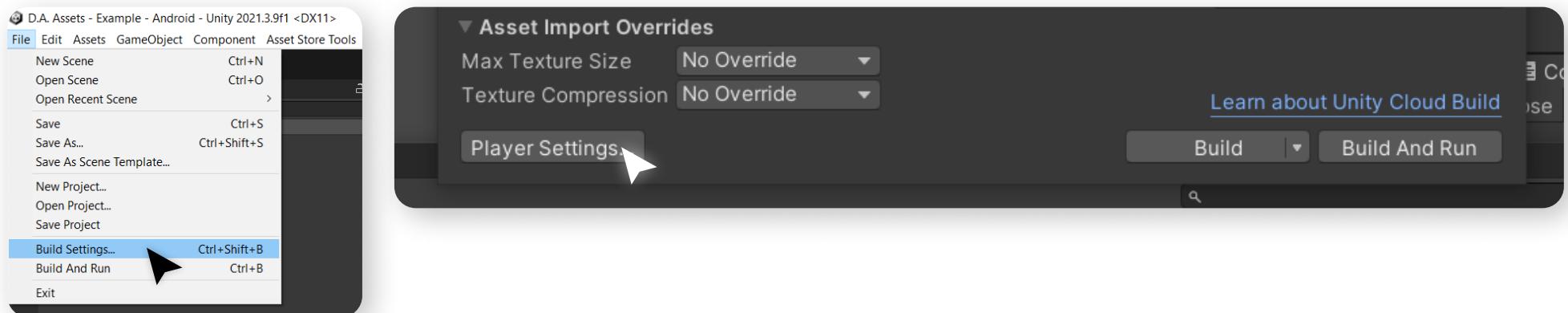
5

If, for some reason, you **cannot activate or deactivate** an additional asset and/or see errors in your **Editor**, you can activate or deactivate assets using "**Project Settings**":

2. Dependencies

6

Go to File > Build Settings > Player Settings



7

Find "Script Compilation" section in the "Project Settings".



8

Add or remove row from the list that correspond to additional asset:

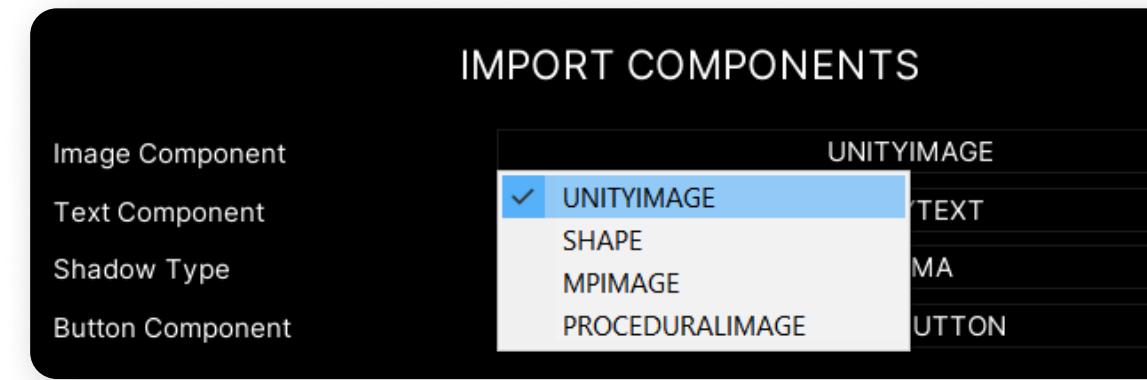
Asset	Row
TextMeshPro	TextMeshPro
TrueShadow	TRUESHADOW_EXISTS
I2Localization	I2LOC_EXISTS
Shapes2D	SHAPES_EXISTS
Modern Procedural UI Kit	MPUIKIT_EXISTS
Procedural UI Image	PUI_EXISTS

9

Press "Apply" button.

Shapes2D, MPUIKit, Procedural UI Image

- 1 Instead of the standard Unity image component, you can use one of the additional assets, the links to which you can find in the "**Package dependencies**" section on the asset's page in the Asset Store:
<https://assetstore.unity.com/packages/tools/utilities/198134>
- 2 When importing assets, follow the instructions in the "**Dependencies**" section of this manual.
- 3 After successfully importing the asset, you will be able to select it as the image component in the "**UNITY COMPONENTS**" tab in asset.



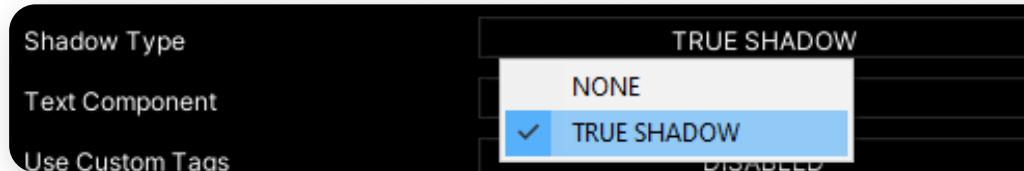
- 4 For design-specific details about working with these assets, you can read the "**Manual for designers**":
Assets\D.A. Assets\Figma Converter for Unity\Manual for designers.pdf
- 5 If you are using the function to create prefabs using the asset, please note that updating prefabs upon re-import will not work if the image components inside the prefabs are different from the component selected in the "**UNITY COMPONENTS**" tab at the time of import.

True Shadow

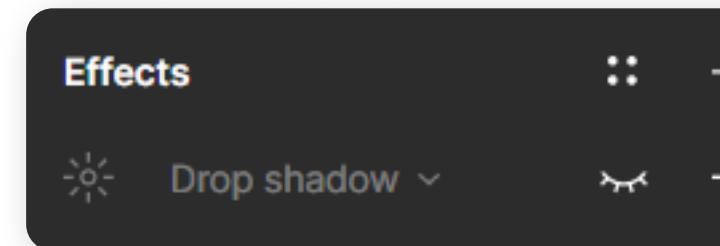
Video manual:

<https://www.youtube.com/watch?v=ckyS96RmsY8>

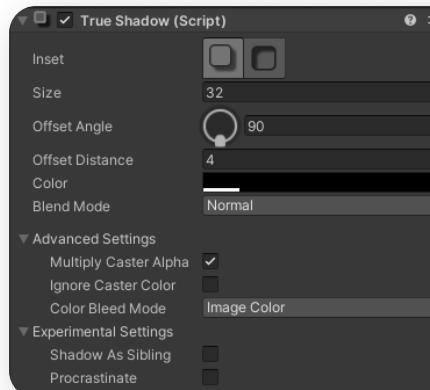
- 1 If you want the component's shadow not to be part of your sprite but rendered procedurally, you can use the **TrueShadow** asset.
- 2 When importing asset, follow the instructions in the "**DEPENDENCIES**" section of this manual.
- 3 In the "**UNITY COMPONENTS**" tab switch parameter "**Shadow Type**" to "**True Shadow**".



- 4 Before importing your layout using the "**True Shadow**" mode, you need to make all the shadows in your Figma project invisible.



- 5 After import, **all** your **components** that have a **shadow** in the Figma layout **will have a shadow** script from "**TrueShadow**" asset.
To use this functionality properly, **read** the section of this asset in the "**Manual for designers**".



I2Localization

You can purchase "**I2Localization**" asset and use it in conjunction with "**Figma Converter for Unity**".

Video manual:

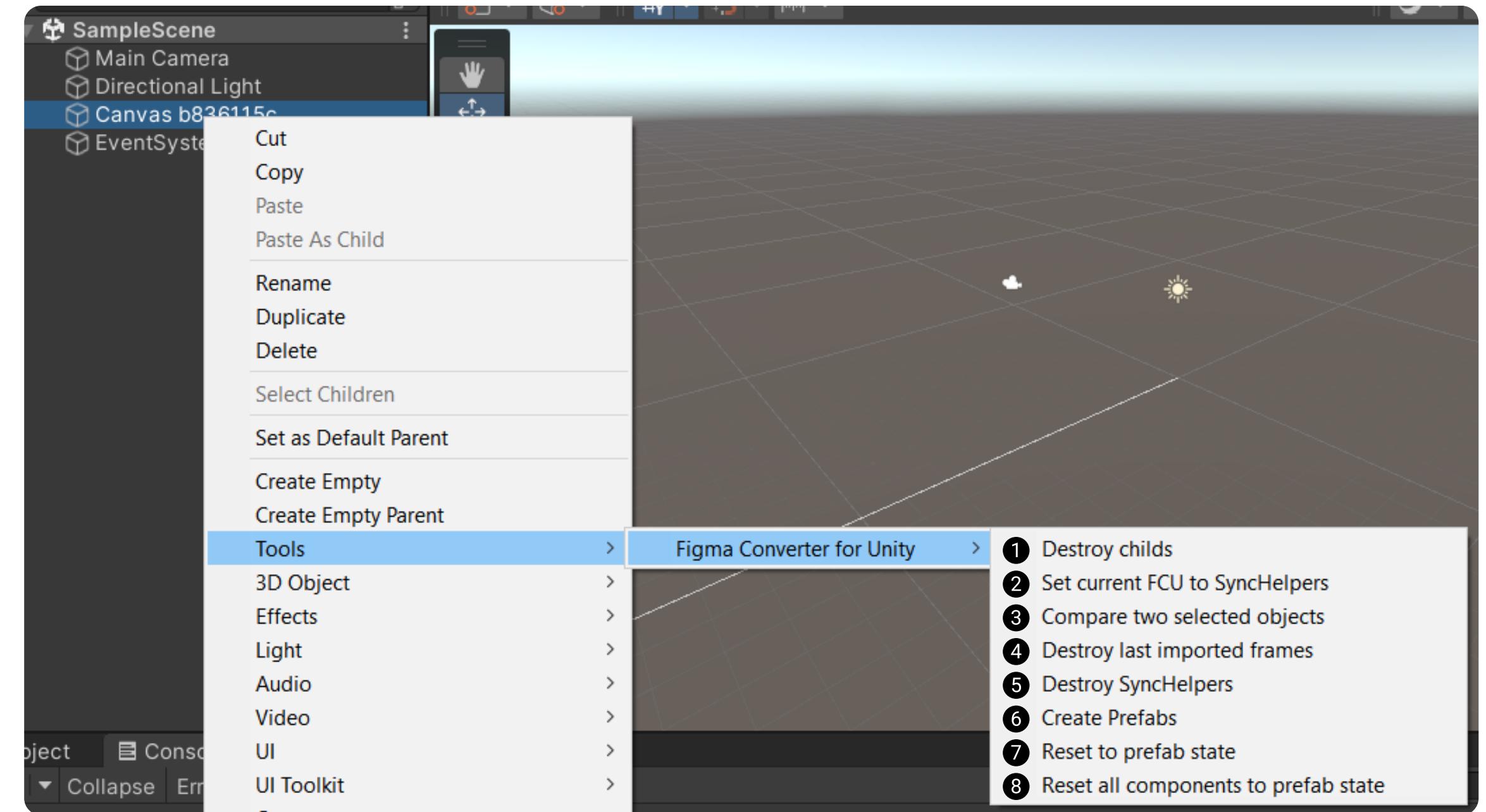
https://www.youtube.com/watch?v=Rn_Fv-oory8

- 1 Add the purchased asset to your project.
 - 2 When importing assets, follow the instructions in the "**Dependencies**" section of this manual.
 - 3 After a successful asset import, in the "**MAIN SETTINGS**" tab, switch the "**Use I2Localization**" parameter to "**ENABLED**".



- 4 Import your layout as you normally would.
 - 5 After import, script “I2Localize” will be added to all text components, their text will be written to the localization file “localization.csv” (separator - semicolon) as an english localization, the localization corresponding to the text component will be selected in the script.
You can open the localization file in Excel.
All further instructions are detailed in the manual for “I2Localization” asset.

1. Context menu



- 1 Deletes the child objects of the current canvas.
- 2 Assigns the main script of the asset to the serialized field of child objects of the current canvas. This is necessary for creating prefabs and updating the project during re-import.
Works only for objects that have the SyncHelper.cs script attached to them.

2. Context menu

- 3 Compares two objects that have the SyncHelper script attached to them. Using this function, you can determine the differences between two objects to avoid duplication in your Figma and Unity projects.
- 4 Removes the last imported frames. Please note that this function is temporarily not operational.
- 5 Removes the SyncHelper.cs script from all child objects of the current canvas. Please note that after removing these scripts from objects, you won't be able to synchronize your Unity project with the Figma project. Only delete SyncHelper.cs if you are certain that you won't need to synchronize your layout anymore.
- 6 Creates prefabs from the objects of the current canvas. Creating prefabs is only possible if all objects on the canvas have the SyncHelper.cs script attached.
- 7 Resets the selected GameObject to the state of the prefab. Child objects are not reset.
Resets the selected object and all its child objects to the state of the prefab. The SyncHelper.cs script is not needed for these functions to work.
- 8 Resets the selected GameObject and all its child GameObjects to the state of the prefab. The SyncHelper.cs script is not needed for this function to work.

3. Context menu



- 1 Creates a GameObject with the FigmaConverterUnity script on the scene.
- 2 Opens a window where you can specify a folder containing your sprites, from which you want to remove all sprites that are not used in the Image components of all objects in the current open scene.

Settings



- MAIN SETTINGS
- UNITY COMPONENTS
- FONTS
- PREFABS
- IMPORT EVENTS**
- DEPENDENCIES
- DEBUG

IMPORT EVENTS

On Import Start (FigmaConverterUnity)

Editor And Runtime	No Function
None (Object) 	

1



On Import Complete (FigmaConverterUnity)

Editor And Runtime	No Function
None (Object) 	

2



On Import Fail (FigmaConverterUnity)

Editor And Runtime	No Function
None (Object) 	

3



On Object Instantiate (FigmaConverterUnity, GameObject)

Editor And Runtime	No Function
None (Object) 	

4



On Add Component (FigmaConverterUnity, SyncData, FcuTag)

Editor And Runtime	No Function
None (Object) 	

5



Import events

The description will be available
in future versions.