Hey there!

Thank you for your interest in **Maintainer**, your attentive Unity3D projects housekeeping assistant!

This is an editor extension made of three separate modules:

Issues Finder, Project Cleaner, References Finder.

Please read carefully through this document in order to know more about each module and plugin in general.

See more details about each module at the Modules section below.



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Installation and setup

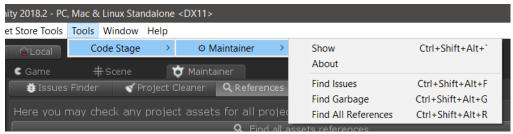
IMPORTANT:

To avoid different compatibility issues and errors:

- Always close Maintainer window before updating.
- Always remove previous version from project Assets before updating.

Menus

As you import plugin, you will see new menu commands at the top menu:



Tools > Code Stage > Maintainer

Show

Opens Maintainer window at last opened tab or at the first tab if was not opened before.

About

Opens Maintainer window at the About tab with helpful links and additional information about extension.

Find Issues

Starts Issues Finder module search and shows Maintainer window with results.

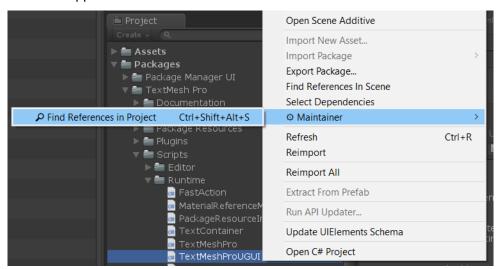
Find Garbage

Starts Project Cleaner module search and shows Maintainer window with results.

• Find All References

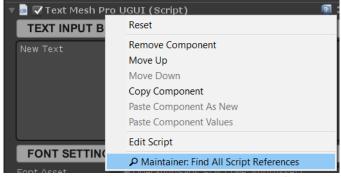
Starts References Finder module global search and shows Maintainer window with results.

In addition, these menu items appear:



Project View Context Menu (Assets menu) > Maintainer > Find References in Project

Starts <u>References Finder</u> module search for the selected item(s) and shows Maintainer window with results. When called for folder, it will take all files in that folder recursively. Works both for the regular Assets and for the Packages assets.



Component Context Menu > Find All Script References

Starts <u>References Finder</u> module search for the script which context menu was called for. Since it looks for the script file references, it will show and be active only for the components deriving from the <u>MonoBehaviour</u> or <u>ScriptableObject</u> and having real script file in the project (either in Assets or Packages).

Files in your project

Here are the files Maintainer may produce in your project during its activity:

- YourProject/ProjectSettings/MaintainerSettings.asset
 - This is a Maintainer Settings for your project. File is a standard Unity serialized asset (so it may be binary or text depending on your assets serialization settings of the project).
- YourProject/Library/MaintainerPersonalSettings.dat
 - This is a Personal Settings file for your project such as last open tab, scroll position, sorting orientation, etc. File is a standard Unity serialized asset. Please ignore it in your VCS to reduce chance of merge conflicts (it's a good practice to ignore whole Library folder actually).
- YourProject/Library/MaintainerMap.dat
 - This is a Maintainer-optimized Assets Map of your project used by all modules. It's a binary file.
- YourProject/Temp/Maintainer*Results.bin and MaintainerReferencesLastSearched.bin
 - These are Maintainer search results files, which contain last search results of different modules. The Temp folder is deleted by Unity when it exits, so results are stored only for one session and will be erased on Unity restart. These are binary or json-compatible files, depending on module.

Modules

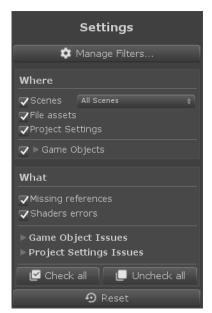
Issues Finder

This module allows finding different issues within your Unity3D project, like missing scripts, missing references, and much more (see below). It also able to fix some of these issues in one-by-one or batch mode to let you quickly get rid of them.

You can use this module both from Maintainer window and via menu command / shortcut (see <u>Installation and setup</u>). If you will use it via menu command / shortcut, it will perform search with latest (or default) settings and will show results in the Maintainer window after that.

Issues Finder Settings

If you wish to tune settings before search, open Maintainer window, at the Issues Finder tab and tune them from there:



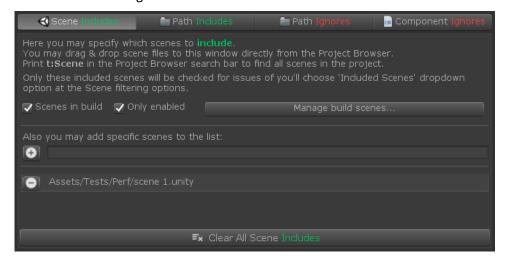
Settings are made of two separate groups: different filtering and ignoring settings and "what to look for" settings. Let's describe them one-by-one, in their exact order.

Manage Filters... button opens Precise Filters window with four tabs: Scene Includes, Path Includes, Path Ignores and Component Ignores. See detailed description of each tab below.

Precise Filters tabs

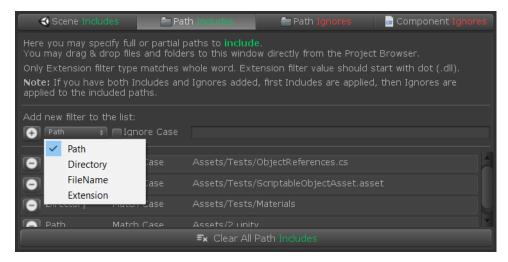
IMPORTANT:

Please keep an eye on your lists of ignores to make sure they do not have old and not actual items to avoid extra waste of the resources and time during the Issues Search.



Scene Includes tab allows including specific scenes into the issues search. Here you may easily include all scenes added to the Build Settings and specify if you also wish to include disabled items or not. In addition, you may add specific scenes by dragging them from the Project Browser or by entering their path relative to the project folder.

Use "Included Scenes" option for the Scenes setting to search issues only in these included scenes.



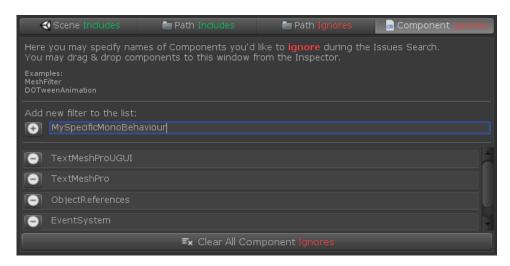
Path Includes tab allows including specified files, folders, extensions or partial paths to the Issues Search. You may add filters manually or just drag & drop items from the Project Browser.

You may include files with specified extension, full or partial paths and names, both with Match or Ignore Case. If you have both Includes and Ignores added, first Includes are applied, then Ignores are applied to the included items.

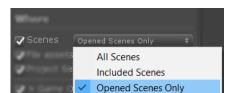


Path Ignores tab allows excluding specified files, folders, extensions or partial paths from the Issues Search. You may add filters manually or just drag & drop items from the Project Browser.

You may exclude files with specified extension, full or partial paths and names, both with Match or Ignore Case. If you have both Includes and Ignores added, first Includes are applied, then Ignores are applied to the included items.



Component Ignores tab allows excluding components with specified names from the Issues Search. You may add names by hand or just drag & drop desired component from inspector to this window. In case you'll add component by hands, entered name will be looked in all currently loaded assemblies before saving it to the list to make sure you entered it correctly.



✓ Project Settings

What

Missing references

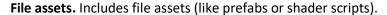
✓ Inactive Game Objects

✓ Disabled Components



Scenes. Includes scenes. Uncheck to exclude all objects and settings placed in scenes from the Issues lookup.

- All Scenes. Performs search in all scenes in the project.
- Included Scenes. Checks only those scenes you have included at the Scene Includes filters. By default, all enabled scenes from the "Scenes in build" are included.
- Opened Scenes Only. Performs search only in currently opened scenes (multi-scene setup is supported). Path Ignores will not affect such search.

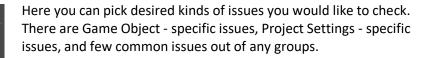


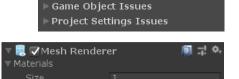
IMPORTANT:

In-scene prefab instances, which have no changed (overriding) properties, will be skipped when this option is checked since all such objects will be scanned as File assets.

Project Settings. Includes Project Settings into the issues search. **Game Objects.** Includes Game Objects into the issues search (in scenes and prefab assets if scenes and File assets are included). **Inactive Game Objects.** Includes inactive Game Objects. **Disabled Components.** Includes disabled Components.

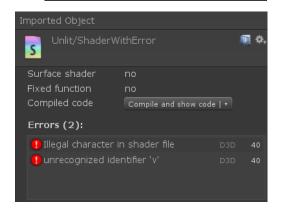
What?





Missing references. Search for any missing references across whole project, depending on your "*Where?*" settings. Reference can miss when you remove referenced asset from the project.

Shaders errors. Search for any shader scripts with compilation errors within project assets. Will not work with disabled **File assets** "**Where**" option.

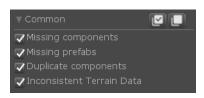


Game Object Issues



Issues Finder can scan Game Objects for the different issues. You may enable or disable them here, at few organized groups.

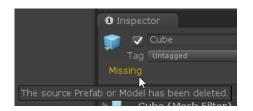
Common group



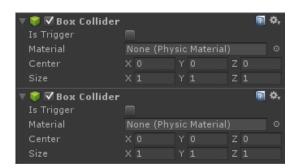
Here we have most serious issues, which can affect your game behavior and stability. See details on each issue below.



Missing components. Search for the missing components at the Game Objects or Scriptable Objects. Happens when you delete MonoBehaviour or Scriptable Object scripts, sometimes accidentally.



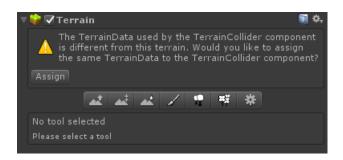
Missing prefabs. Search for instances of prefabs which were removed from project.



Duplicate components. Search for the multiple instances of the same component on the same object, taking into account values of the components' properties.

IMPORTANT:

Gradient values are not supported for now (so you may get false positives if you have similar components with only differed gradients).



Inconsistent Terrain Data. Search for Game Objects where Terrain and TerrainCollider have different Terrain Data. It may lead to the incorrect collisions with your terrain. Though it may be expected in some cases, e.g. when you wish to make separate smoother collision data to reduce resources usage.

Neatness group

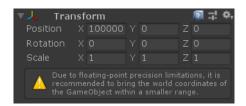


Contains different issues related to the overall orderliness and neatness of the project.

See details on each issue below.



Objects with unnamed layers. Search for GameObjects with unnamed layers. Happens when you use some custom layer and remove it from Tag Manager afterwards.



Objects with huge positions. Search for GameObjects with too big world positions (more than 100k by any axis). Will check both regular objects and UI objects as well.

Project Settings Issues



Issues Finder can also check your project settings for possible issues.

Duplicate Layers. Looks for the duplicate entries at the *Tags and Layers* settings of the project.

Quick selections and reset



Use **Check / Uncheck** buttons placed next to the group label to quickly check and uncheck all settings in the group.



Use **Check all** and **Uncheck all** buttons to quickly check and uncheck all "look for" settings.

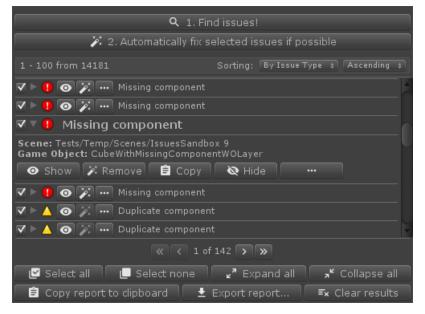
Use **Reset** button to quickly reset all **Issues Finder** settings (except precise filters) to defaults.

Issues Finder Usage

After you have done with settings, just press "1. Find Issues!" button or CTRL / CMD + SHIFT + ALT + F shortcut to start issues search. If you have any unsaved changes in current scene, you will be prompted to save them before search starts in case you did not choose Opened Scenes Only filtering option.

You will see search progress indicating current search phase and giving you some insight on what is currently happening. After search, you will see search results in the Maintainer.

Issues search results



Here you can see (from top to the bottom):

- 1. Find issues! button. Starts the Issues search.
- **2.** Automatically fix... button. Tries to automatically fix selected issues. For more details, see the **Automatic fixes** section below.

Current page issues indexes and total issues count.

Sorting options. You may sort by type, severity and path both ascending and descending.

Found issues list itself (will be covered in more details below).

Paging controls if there are more than 100 issues found (one page shows 100 issues).

Some self-describing helper buttons.

Results list consists of separate issues records. Records are collapsed to the compact view by default and look like this:



Compact record view has such elements:

- Selection box. Allows selecting items for the auto-fix.
- Expand arrow. Allows expanding a record to the detailed view.
- Severity icon. Shows severity (importance) level. Info, Warning or Critical.
- Optional Prefab icon for issues found in prefab file assets.
- **Show** button (eye icon). Navigates you to the issue as close as possible. Works differently for issues from different sections.

For Game Object Issues:

Selects Game Object with issue in the scene Hierarchy or Project Browser. Opens scene with needed Game Object if necessary and highlights this scene in the Project Browser.

If target Game Object is nested within Prefab file asset deeper than 2nd level, prefab asset will be highlighted in Project Browser.

It also tries to collapse all components on the Game Object keeping expanded target component if record has it.

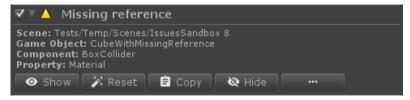
For Project Settings Issues:

Opens or highlights desired section of the Project Settings.

- **Fix** button (magic wand icon). Applies suitable auto-fix for the issue, if possible. Over cursor to see the tooltip with description of the applied fix.
- More button (dots icon). Shows menu with additional functionality, as quick add to the ignores.
- Issue caption. Usually briefly describes issue. May have some useful info like index of the unnamed layer to let you easily locate and name that layer in Tags Manager.

If you wish to see more details about desired issue, just press at the expand arrow, or click the record itself (except other buttons of course) to expand it to the detailed view.

Detailed view looks like this:



Detailed record view has such elements:

- Selection box. Allows selecting items for the auto-fix.
- Collapse arrow. Allows collapsing a record to the compact view.
- Severity icon. Shows severity (importance) level. Info, Warning or Critical.
- Optional Prefab icon for issues found in prefab file assets.
- Issue caption. Usually briefly describes issue. May have some useful info like index of the unnamed layer to let you easily locate and name that layer in Tags Manager.
- Additional info and issue location. Depending on issue kind, can include such levels of precision:

For Game Object Issues:

- Scene (for objects in scene) / Prefab (for objects in prefab file assets) path to the scene or prefab file.
- Game Object path to the Game Object in the scene.
- Component (optional) name of the Component, which has an issue.

IMPORTANT:

If Game Object has more than one of such Components, you will see the (#*) added to the Component's name. This is a sequence number of the target Component.

• **Property** (optional) - name of the property, which has an issue.

For Project Settings Issues:

- Where issue was found
- What exactly wrong there
- May vary for different kinds of issue
- **Show** button. See the compact view description for details.
- **Fix** button with proper caption, depending on the issue kind. See the compact view description for details.

- **Copy** button. Copies record text to the clipboard.
- **Hide** button. Hides record from the results list. Useful when you wish to hide appropriate record from the search results after you fixed an issue.
- More button. See the compact view description for details.

If you wish to see less details about expanded issue, just press at the collapse arrow, or click the record itself (except other buttons of course) to collapse it to the compact view.

Project Cleaner

This module allows finding different garbage, unused stuff in your project and lets you clean it up with few clicks.

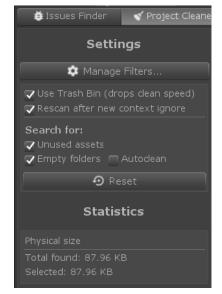
IMPORTANT:

- Please note, this module can remove files and folders physically from your system. Please always make a backup of your project before using Project Cleaner! I'm not responsible for any data loss due to use of the Project Cleaner!
- Keep in mind that Project Cleaner looks for the garbage which is not referenced anywhere in the project. However,
 it still may be used dynamically at runtime. Project Cleaner tries to avoid such cases ignoring special folders, but for
 example, some custom build systems still may affect this. So please carefully inspect each found item before
 removing it.

You can use this module both from Maintainer window and via menu command / shortcut (see **Installation and setup**). If you will use it via menu command / shortcut, it will perform garbage search with latest (or default) settings and will show results in the Maintainer window after that.

Project Cleaner Settings

If you wish to tune settings before search, open Maintainer window first, go to the **Project Cleaner** tab and tune them from there:



Here you can see settings available for this module.

Settings are made of two separate groups: different filtering and ignoring settings and "Search for" settings.

Let me just describe them one-by-one, in their exact order.

Manage Filters... button. Opens Precise Filters window with two tabs – Scene Ignores and Path Ignores.

Precise Filters tabs

Tabs are equal to the ignore tabs from the Issues Finder module.

Scene Ignores tab allows excluding specific scenes from the garbage search. Ignored scenes will be considered needed and everything used in them will be excluded from the garbage search.

Path Ignores tab allows excluding specified files, folders or partial paths from the Garbage Search.

IMPORTANT:

Please keep an eye on your lists of ignores to make sure they do not have old and not actual items to avoid extra waste of the resources and time during the garbage search.

Rest of the settings

Use Trash Bin. Keep this on checked if you wish to move all garbage to the Trash Bin instead of deleting it permanently. Always recommended setting, it will allow you to recover stuff you deleted by mistake. It may not work in some environments, for example, early Unity builds for Linux ignore this option. Please note, this option reduces cleanup performance, when enabled.

Rescan after new context ignore. When checked, garbage scan will be automatically re-started after you add any new ignore filters from the results "More" buttons context menus.

Unused Assets. Check to let Project Cleaner look for unused assets in your project.

IMPORTANT:

Assets garbage search doesn't look for the unused scripts, since it's nearly impossible to reliably say if some script is used or not because it might be accessed by name or using Reflection at runtime, etc.

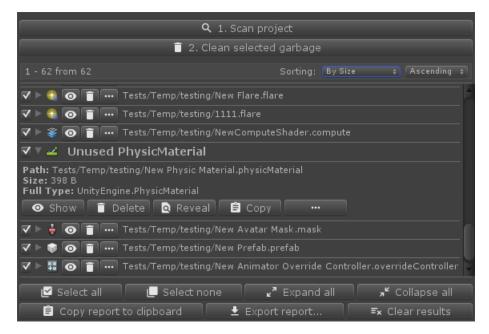
In addition, to avoid false positives, Project Cleaner skips some special folders like Plugins and Editor.

Empty folders. Finds empty directories in your project. You also may enable **Autoclean** option to automatically find and delete empty folders on scripts recompile. Useful when you work in big team using GIT or similar VCS that do not synchronize empty folders. It allows to automatically cleaning empty folders for all your colleagues as soon as they get the Maintainer with configured settings from the repository.

Project Cleaner Usage

After you have done with settings, just press the "1. Scan project" button or CTRL / CMD + SHIFT + ALT + G short key to perform garbage search.

You will see search progress indicating current search phase and giving you some insight on what is currently happening. After search, you will see search results in the Maintainer.



Here you can see (from top to the bottom):

- **1. Scan project** button. Starts the garbage search.
- **2. Clean selected garbage** button. Starts the cleanup of the selected items.

Currently shown items indexes and total items count.

Sorting options. You may sort by path, size, and type both ascending and descending.

Found garbage list itself (will be covered in more details below).

Paging controls if there are more than 100 items found (one page shows 100 items).

Some self-describing helper buttons.

Results list consists of separate garbage records. Records are collapsed to the compact view by default and look like this:



Compact record view has such elements:

- Selection box. Allows selecting items for the cleanup. Only checked items will be deleted on the cleanup phase.
- Expand arrow. Allows expanding a record to the detailed view.
- Asset icon. Shows icon similar to what you see at the Project Browser for each asset.
- **Show** button (eye icon). Selects asset at the Project Browser.
- **Delete** button (trash bin icon). Immediately deletes asset.
- More button (dots icon). Shows menu with additional functionality, as quick add to the ignores.
- Garbage asset path relative to the Assets folder.

If you wish to see more details about desired garbage, just press at the expand arrow, or click the record itself (except other buttons of course) to expand it to the detailed view.

Detailed view looks like this:



Detailed record view has such elements:

- Selection box. Allows selecting items for the cleanup. Only checked items will be deleted on the cleanup phase.
- Collapse arrow. Allows collapsing a record to the compact view.
- Asset icon. Shows icon similar to what you see at the Project Browser for each asset.
- Caption. Usually describes the type of found garbage.
- Garbage asset path relative to the Assets folder.
- Asset size (if it is not an empty folder).
- Full type (if it is not an empty folder).
- **Show** button. See the compact view description for details.
- **Delete** button. See the compact view description for details.
- Reveal button. Shows file or folder in the system File Manager (Explorer on Windows, Finder on Mac, etc.).
- **Copy** button. Copies garbage record description to the clipboard.
- More button. See the compact view description for details.

If you wish to see less details about expanded garbage item, just press at the collapse arrow, or click the record itself (except other buttons of course) to collapse it to the compact view.

After you observed found garbage, just check desired items and clean them up using the "2. Clean selected garbage" button.

References Finder

This module allows to accurately find references to any asset in any other assets in your project to let you quickly find out where exactly this or that asset is referenced in your project, if referenced at all.

For example, you may check where selected Texture asset is used and see list of references with detailed path to the reference including scene (if it is not a prefab), object, component, property name if possible.

Some specific corner cases are treated with care, for example, in-scene lighting settings and game object icons are checked for references. Settings references (like scenes in build scenes and icons in player settings) are checked too, even hidden prefabs modifications are "in the game".

Search algorithm was developed with performance in mind making it effective and reducing time of the repeating searches dramatically. Please note, first run is usually noticeably slower, especially if it is a project-wide search of all assets references).

You can use this module both from Maintainer window and via menu command / shortcut (see **Installation and setup**). If you will use it via main (top) menu command / shortcut, it will perform project-wide search of all assets references. If you will use it from Assets (Project view context) menu, it will perform search of selected assets references, which is much faster usually when searching for the first time.

In both cases, latest or default settings will be used and results will show in the Maintainer window after search.

References Finder Settings

If you wish to tune settings before search, open Maintainer window first, go to the **References Finder** tab and tune them from there:



Here you can see few settings available for this module.

Manage Filters...(0) button. Opens Precise Filters window with two tabs – Path Includes and Path Ignores. Number in braces shows amount of all added filters.

Precise Filters tabs

Path Includes tab allows including specified files, folders, extensions or partial paths to the References Finder. You may add filters manually or just drag & drop items from the Project Browser.

You may include files with specified extension, full or partial paths and names, both with Match or Ignore Case. If you have both Includes and Ignores added, first Includes are applied, then Ignores are applied to the included items. This tab is similar to same tab at the Issues Finder module filters.

Path Ignores tab allows excluding specified files, folders, extensions or partial paths from the References Finder. It will exclude items both from target and from source of the reference.

This tab is similar to same tab at the <u>Issues Finder</u> module filters.

IMPORTANT:

Please keep an eye on your lists of the filters to make sure they do not have old and not actual items to avoid extra waste of the resources and time during the References search.

Rest of the settings

Add assets without found references. Enable to keep assets without found references in list. They will be just dimmed a bit to indicate they have no references found.

Clear results on selected assets search. Enable to automatically clear previous search results before making new search of assets selected in Project view. If you keep it disabled, each new search will add new results to the previous results.

References Finder Usage

After you have done with settings, you have two options how to use the module next:

1. You may run project-wide scan of all assets for references in whole project. For this just press **Find all assets references** button or CTRL / CMD + SHIFT + ALT + R shortcut to start global project-wide references search.

IMPORTANT:

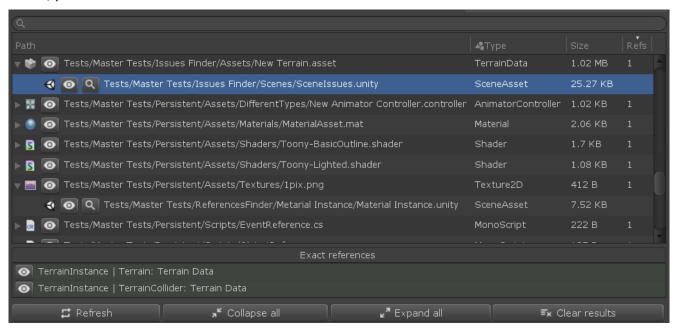
the search process.

Project-wide search of all assets references usually takes way more time to complete comparing to the selected assets references search. It may take significant amount of time for huge projects. Therefore, please be patient and let References Finder finish initial search (it will take much less time for any subsequent searches). Alternatively, avoid project-wide search and use only selected assets references search (explained below) to speed up

- 2. You may check only few specific assets for references in project. For this, choose most suitable way of these:
 - Select assets at the Project View and choose context menu item Maintainer > Find References in project or press CTRL / CMD + SHIFT + ALT + R shortcut.
 - Select assets at the Project View and press **Find selected assets references** button at the Maintainer window with References Finder tab open or press CTRL / CMD + SHIFT + ALT + R shortcut.
 - Drag assets from the Project explorer view to the Maintainer window with References Finder tab open.
 - Use script asset component context menu item Find All Script References as shown at <u>Installation and Setup</u> chapter.
 - Drag script asset component from the Game Object to the Maintainer window with References Finder tab open.

If you have any unsaved changes in opened scenes, you will be prompted to save them before search starts.

You will see search progress indicating current search phase and giving you some insight on what is currently happening. After search, you will see search results in the Maintainer.



Here you can see (from top to the bottom):

Search bar. Use it to quickly filter out results by Path. You may enter any part of the path and search is case-insensitive.

Results list. It has header with few columns: Path, Type, Size and Refs (references count). Results may be sorted by any of these columns. Each column may be resized. Header also has a context menu where you may hide or show columns and auto-resize headers to fit the width. More details on the results in this list please read below.

Refresh button. This button restarts last search and refreshes contents of the results if something changed.

Collapse / Expand buttons. Just collapses or expands all results items.

Clear results button. Clears last search results.

Results list consists of separate **Asset Rows** for each scanned source asset.



Each source Asset Row has:

Expand / Collapse arrow, if any references were found to this asset.

Asset icon or special icon (e.g. in case of recursion).

Reveal button. Selects this source asset in the Project Browser.

Path to the source asset file in the project we look for the references to.

Type, file size and found references count (if all columns are enabled in header context menu).

Double-click action – same as Reveal button

Asset Row will have expand / collapse arrow in case there are any references found to the source asset.

When you expand source Asset Row you'll see reference Asset Rows – all assets which do reference to the source asset.



If reference was found at the project or scene settings, you will see the gear icon next to it.

Reference Asset Rows are similar to the source Asset Rows except they can not be expanded further and they have few additional features:

Reveal button. Similar to Source Asset Row's reveal, but also can open Settings windows in case reference was found in settings.

Find references button. Searches references of this Reference Asset to see where it is used. Selects it in the results if it's already presents there. It is optional and shows only for referenced assets.

Reference Asset Row has no Refs column value.

Select Reference Asset Row to see where exactly Source asset is referenced. **Exact references** are printed at the lower resizable pane:

```
Exact references

[Material Instance] Cube | MeshRenderer: Materials[0] (Main Texture)
```

Generally, exact reference has such mask: [Optional Hint] Transform Path | Component: Field [Array item], but it may vary for different kind of references.

Each exact reference has own **Reveal** button which navigates to the found reference as closer as possible. It will open settings inspector if reference was found in settings. In case of reference in scene object, it will open the target scene, select target object and fold all components except the target one if necessary, to make it as easy as possible for you to find the reference by the eye.

When navigation needs to open scene, it tries to add it to the current scene setup but uses only 1 extra slot so it will close previously opened scene for navigation before opening new one.

Keep in mind, References Finder performance for items you have already searched will be much better for all subsequent searches.

Tips section

- Do not forget to configure filters in all modules! It is a great tool to improve modules performance and to reduce amount of not relevant results in all modules.
- You may keep only most important issues for you in Issues Finder module settings to improve search performance and reduce amount of not relevant results.
- All filters windows and References Finder module tab supports drag & drop from the Project view.

Using Maintainer from code

Maintainer has public API for all modules. It allows you to call modules from your code, which may be useful when you wish to integrate Maintainer's modules into your build pipeline.

See online API docs for details:

http://codestage.net/uas_files/maintainer/api

Troubleshooting

- I have errors in console after importing plugin.
 - Consider making clean update: delete whole folder with plugin before importing new version into your project.
 - Make sure you have no namespaceless classes in your project which may interfere with some system classes.
 - If errors still there, please contact me, and I will try to help (see Support contacts below).
- I cannot see issue at the specified object.
 - Try to enable Debug Inspector mode, some issues may be not visible in Normal Inspector mode.
- I cannot find target component with issue at the specified object because it has lots of such components.
 - Check if issue record has (ID: ***) next to the Component name. In such case it indicates index number of that component in the inspector. Use show button to collapse all components on the Game Object except the target component to quickly distinguish it among others.
- I cannot find target property with issue at the specified component both in Normal and Debug inspector modes.
 - In some rare cases, actual property names may be obscured with PropertyDrawers or Editors. It is not an actual bug. However, if you face such cases too often just let me know and we will think how to deal with it.
- References Finder cannot find exact references locations for object in .max model (or any other non-native for Unity).
 - In order to be able to look for the exact references locations of non-native to Unity items, you usually should have third-party software installed, like 3ds Max, which Unity may use to parse such formats as .max models to let References Finder look into it.

Secret debug menu (use at own peril!)

You may activate super-secret (psst, don't tell anyone!) debug menu with few helpful buttons which may help fix some show-stopping issues to let you workaround some issues while you're waiting for a fix for example.

To activate this menu just open the About tab and press CTRL / CMD + D hotkey.

You will see these buttons right there, at the About tab:

Remove Assets Map

Deletes Assets Map file. Next demand will re-create Assets Map, possibly fixing itself if something went wrong previously.

Remove Settings and Close

Deletes settings file and closes Maintainer window. All settings will reset to defaults on next Maintainer launch.

• Re-save all scenes in project

Iterates all scenes in the project: opens and saves them, one my one. This action has two goals:

- all scenes in project will be updated to the current Unity format if you have some scenes which weren't re-saved in current Unity version yet
- Unity will fix and clean out some garbage and incorrect dependencies in scenes helping References Finder module to be more accurate in some cases

Compatibility

Maintainer works with any Unity license and skin.

Maintainer works on all platforms (Windows, OS X, Linux).

Maintainer works fine with new scripting backend (.NET 4+) and Assembly Definition feature.

Plugin takes into account some specific behavior of the third-party plugins and assets to avoid false positives. For example, empty MeshFilters on objects with TextMeshPro or 2DToolkit components will be considered valid. If you use some third-party assets that make false positives for you because of specific behavior, feel free to report them.

Final words from author

I hope you will find **Maintainer** useful and helpful in your daily work with Unity and it will save you some of your priceless time!

Please, leave your reviews at the Asset Store, it's really important and any user feedback motivates me to continue my work with extra passion.

Also, feel free to drop me bug reports, feature suggestions and other thoughts on the forum or via support contacts!

Maintainer links:

<u>Asset Store</u> | <u>Web Site</u> | <u>Forum</u> | <u>YouTube</u>

Support contacts:

E-mail: focus@codestage.net
Other: codestage.net/contacts

Follow for updates and news:



Best wishes, Dmitriy Yukhanov Asset Store publisher codestage.net

P.S. #0 I wish to thank my family for supporting me in my Unity Asset Store efforts and making me happy every day!
P.S. #1 I wish to say huge thanks to <u>Daniele Giardini</u> (<u>DOTween</u>, <u>HOTools</u>, <u>Goscurry</u> and many other happiness generating things creator) for awesome logos, intensive help and priceless feedback on this plugin!