dotPeek Documentation

Release 2018.0.x

Well Fired Development

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Welcome to the official documentation for .Peek, a Unity editor tool that allows you to automatically generate a report of the used (and unused) assets in your builds, and keep an eye on the evolution of your project assets in a nicely integrated and responsive interface.

If you are reading the .pdf version of this documentation, you may find the online version easier to navigate. It is accessible on https://dotpeek-documentation.readthedocs.io/en/2018.0.x/.

We recommend you read the Introduction to get an overview of what this documentation has to offer.

The table of contents below and in the sidebar should let you easily access the documentation for your topic of interest. You can also use the search function in the top left corner.

Note: Notice something wrong with our documentation? Feel free to submit a pull request.

If you have a technical question, please feel free to contact us through our keybase team wellfiredltd.technicalsupport

The main documentation for the site is organized into the following sections:

Introduction

This page aims at giving a broad presentation of the tool and of the contents of this documentation, so that you know where to start if you are a beginner or where to look if you need info on a specific feature.

1.1 About .Peek

Most of Unity projects requires a large amount of assets (textures, audio files, prefabs, plugins...). These assets have a direct impact on the size of your build and the performance of your game. Tracking these assets to ensure your project stays up to quality standards and does not become a nightmare to maintain is very hard, especially when you are working in a team of people with different background.

.Peek is here to support you in quickly identifying the usual suspect, before it becomes a real problem. It is a must have for any development team who wants to control what goes into their build and react on time when undesirable assets are integrated to the project.

Here a list of the core features :

- · Automatically generate and archive a build report each time a build is performed.
- Provide a nice interface to quickly jump between build reports and compare the content of each build.
- Provides a list of unused assets for each builds.
- Provide the possibility to share build reports on a VCS, or to save it in different location for each team member.
- Possibility to run build generation silently or to totally shut it off.
- Very responsive UI, even for projects with a large amount of assets, thanks to the usage of .Guacamole, an open source MVVM framework for Unity.

1.2 About the documentation

This documentation is continuously written, corrected, edited and revamped by members of the .Peek team and community. It is edited via text files in the reStructuredText markup language and then compiled into a static website/offline document using the open source Sphinx and ReadTheDocs tools.

Note: You can contribute to .Peek's documentation by opening issues through YouTrack or sending patches via pull requests on its GitHub source repository.

1.3 Organisation of the documentation

This documentation is organised in five sections, the way it is split up should be relatively intuitive:

- The General section contains this introduction as well as the Frequently Asked Questions.
- The Getting Started section gives you a quick entry point to start using the tool.
- Finally, the *Class API reference* is the documentation of the .Peek API. It is generated automatically from files in the main repository, and the generated files of the documentation are therefore not meant to be modified.

Frequently Asked Questions

2.1 Is .Peek representative of the final platform build

.Peek is primarly focusing on tracking down what is included in your build and how it influences the size of it over time. The size reported for each asset is not necessarily representative of the final size of your build once it is fully packaged for the platform it is meant to run on. For example, the size of the final IPA produced for IOS is far different from the sum of the assets copied to the XCode project before it is compiled. But the size reported at the end of each Unity build is consistent with the previous builds. So it still gives you a nice overview of what was added, and how it influenced the size of the build.

2.2 Can .Peek be used on Continous Integration server

Yes! And we strongly encourage you to do so. By specifying a path relative to your unity project in .Peek settings, all your build reports can be generated on your CI machine and can be archived next to your other artifacts.

2.3 Can I use .Peek reports outside of the .Peek interface

.Peek reports are serialized in JSON format. They can be parsed efficiently and used anywhere you find it useful. You can for example render them in your own web interface, or parse them on a CI machine. .Peek lastest version will always update the older build reports to the newest format, ensuring your build reports stay relevant at any time.

CHAPTER $\mathbf{3}$

Installing

3.1 Package Contents

Each .unitypackage downloaded from the AssetStore or from the WellFired website will have the same contents.

• /WellFired/WellFired.Peek/Editor Here you'll find all code related to the .Peek project

3.2 Installing

1. Import the .unitypackage into your unity project.

Quick Start

4.1 Your first build report

- 1. After installing .Peek, .Peek window is accessible through the menu **Window > DotPeek** in Unity Editor. Click on it to open .Peek interface : the list of build reports is empty ;(
- 2. Build your project for one of the supported platforms : Windows, Linux, Mac OS, iOS or Android.
- 3. At the end of the build, .Peek should open by itself and display the new build report.

Congratualation ! You generated your first build report !

Tip: If the .Peek does not open by itself at the end of the build it could be you disabled the option in .Peek. See *Settings* for more info.

					्	
	Overview	Build Settings	Unused Assets	U	lsed Assets	
All Builds	1	·				
1/27/2018 @ 21:44:59	Saturday,	January 27,	2018			
	Unity Version				2017.3.0f	
	Build Duration			00	min. 00 seo	
	Commit Id				Invali	
	Platform		Standalone			
	Build Size			65.60		
	Assets Bre	eakdown				
	Textures	eakdown		80 MB	2.70 %	
	Textures Meshes	eakdown	7.	00 MB	10.70 %	
	Textures Meshes Animations	eakdown	7.	00 MB 0.0 KB	10.70 % 0.00 %	
	Textures Meshes Animations Sounds	eakdown	7.(00 MB 0.0 KB 0.0 KB	10.70 % 0.00 % 0.00 %	
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	Textures Meshes Animations Sounds	eakdown	7. ((557 18	00 MB 0.0 KB 0.0 KB	10.70 % 0.00 % 0.00 %	
	Textures Meshes Animations Sounds Shaders Other Assets	eakdown	7. () () () () () () () () () () () () ()	00 MB 0.0 KB 0.0 KB 7.8 KB 8.8 KB	10.70 % 0.00 % 0.80 % 0.00 %	
	Textures Meshes Animations Sounds Shaders Other Assets Levels	eakdown	7. () () () () () () () () () () () () ()	00 MB 0.0 KB 0.0 KB 7.8 KB 8.8 KB 5.1 KB	10.70 % 0.00 % 0.80 % 0.00 % 0.10 %	

4.2 Next Step

In the coming pages, you'll learn more about .Peek's User Interface, and how your build reports are stored and managed.

.Peek Front Page

This is the first page displayed when you access .Peek through Unity Editor **Window > DotPeek**. It is divided in three parts :

- 1. The top navigation bar that gives you access to the *Settings*.
- 2. The left panel listing the different build reports based on the time it was generated.
- 3. The central view that displays the build report you selected on the left, or the settings page.

2.	Overview	Build Settings	Unused Assets	Used Asse
All Builds 2.				
5/30/2018 @ 22:05:31	Wednesc	lay, May 23	2018	
E 122 12019 @ 22.21.17	weunesc	iay, May 23	2010	
5/23/2018 @ 23:31:17	Unity Version			2017.3.1
5/23/2018 @ 19:54:59	Build Duration			00 min. 51 s
5/23/2018 @ 19:52:21	Commit Id			d64d74e-uns
5/23/2018 @ 19:50:58	Platform			
5/23/2018 @ 19:30:43	Build Size			604.80
		ets in Resources		
5/23/2018 @ 17:34:18	folder			
5/11/2018 @ 05:48:23				
5/11/2018 @ 05:36:10	Assets B	reakdown		
5/11/2018 @ 05:26:31	Textures		3.00	0 MB 0.50 %
5/11/2018 @ 05:11:39	Meshes		7.00	OMB 1.20 %
	Animations		0.	0 KB 0.00 %
5/11/2018 @ 05:04:10	Sounds		0.0	0 KB 0.00 %
5/11/2018 @ 04:57:13	Shaders		884.	9 KB 0.10 %
4/25/2018 @ 00:13:01	Other Assets		20.	0 KB 0.00 %
., 23, 2010 @ 00.13.01	Levels		35.	1 KB 0.00 %

Build Report Panels

After you select a build report on the left side of the UI, it will be loaded and displayed through 4 panels :

- 1. Overview
- 2. Build Settings
- 3. Unused Assets
- 4. Used Assets

6.1 Overview

The overview page gives you some general information about your build.

				t di cita di c
	Overview	Build Settings	Unused Assets	Used Assets
All Builds	l l	·		
5/30/2018 @ 22:05:31	Wednesd	ay, May 23,	2018	
5/23/2018 @ 23:31:17	Unity Version		,	2017.3.1p
5/23/2018 @ 19:54:59	Build Duration			00 min. 51 sec
5/23/2018 @ 19:52:21	Commit Id			d64d74e-unsyr
5/23/2018 @ 19:50:58	Platform			IC
5/23/2018 @ 19:30:43	Build Size 604			
5/23/2018 @ 17:34:18	Number of asse folder	ets in Resources		
5/11/2018 @ 05:48:23				
5/11/2018 @ 05:36:10	Assets Br	eakdown		
5/11/2018 @ 05:26:31	Textures		3.00	MB 0.50 %
5/11/2018 @ 05:11:39	Meshes		7.00	MB 1.20 %
	Animations		0.0	KB 0.00 %
5/11/2018 @ 05:04:10	Sounds		0.0	KB 0.00 %
5/11/2018 @ 04:57:13	Shaders		884.9	KB 0.10 %
4/25/2018 @ 00:13:01	Other Assets		20.0	KB 0.00 %
+/23/2018 @ 00.13.01	Levels		35.1	KB 0.00 %
4/24/2018 @ 18:45:42	Scripts		395.3	KB 0.10 %

Unity Version The Unity version used.

Build Duration The duration Unity took to make the build.

Tip: Note that .Peek records the time based on callbacks triggered by Unity Editor before and after it produced a build. Since several scripts in your project may make use of these callbacks, Unity provides a way to order them. .Peek by default will try to receive the prebuild callback as early as possible, and the postbuild callback as late as possible. You can programmatically change these settings, see XXXXXXXX

- **Commit Id** If your Unity project is linked to a VCS repository, then the commit id at build time will be saved and display here. Note that .Peek supports only GIT and SVN at the moment. Windows users may need to ensure these VCS are installed on the command line.
- **Platform** The platform the build was done for. For the moment .Peek support generating build reports only for MacOS, Linux, Windows, Android and iOS.
- Build Size The size of the build before it is packaged to be run on the final platform.

Warning: The size reported here and the final size of your build once it is fully packaged for the final platform can differ a lot. For example, the size of the final IPA produced for IOS is far different from the sum of the assets copied to the XCode project before it is compiled.

Size of Resources This is the size of the assets added to Resources folders. It is recommended to keep this size low as it directly impacts the startup time of your game. You can get more information about this in this Unity article.

Assets Breakdown This indicates you the size a category of assets occupies in the build.

6.2 Build Settings

The build settings panel shows you which settings were used for the platform you were building for. The settings displayed are relevant to the platform. So if a setting is specific to Android, like the target API Level, then it won't be displayed if the platform targetted was Standalone.

OverviewBuild SettingsUnused AssetsUsed AssetsAll Builds\$/30/2018 @ 22:05:31\$/32/2018 @ 23:31:17\$/23/2018 @ 19:52:21\$/23/2018 @ 19:52:21\$(Inhandled Exception)\$(Inhandled Exception) <td< th=""><th></th><th></th><th></th><th></th><th>Ö</th></td<>					Ö
Si30/2018 @ 22:05:31Build Settings5/23/2018 @ 19:54:59Debug And Crash Reput5/23/2018 @ 19:50:58Unhandled Exception5/23/2018 @ 19:50:58Cash5/23/2018 @ 19:30:43True5/23/2018 @ 17:34:18False5/11/2018 @ 05:48:23Color Space5/11/2018 @ 05:26:31Color Space5/11/2018 @ 05:26:31Auto Graphics API5/11/2018 @ 05:04:10Force Hard Shadow On Metal5/11/2018 @ 04:57:13Force Hard Shadow On Metal6/11/2018 @ 04:57:13Force Hard S		Overview	Build Settings	Unused Assets	Used Assets
S/23/2018 @ 23:31:17S/23/2018 @ 19:54:59S/23/2018 @ 19:52:21Unhandled ExceptionCrashLog Obj C ExceptionTrueS/23/2018 @ 19:30:43Frable Crash ReportFalseS/11/2018 @ 05:36:10Color SpaceColor SpaceColor SpaceAuto Graphics APIFrueS/11/2018 @ 05:04:10Force Hard Shadow On Metal Open GLES2S/11/2018 @ 05:04:10Force Hard Shadow On Metal FalseS/11/2018 @ 05:04:10Force Hard Shadow On Metal FalseS/11/2018 @ 05:04:10Force Hard Shadow On Metal FalseS/11/2018 @ 05:04:10Force Hard Shadow On Metal FalseSutic BatchingTrueCPU SkinningCPU SkinningFalse	All Builds				
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5/23/2018 @ 19:50:58Log Obj C ExceptionTrue5/23/2018 @ 19:30:43Enable Crash ReportFalse5/23/2018 @ 17:34:18Rendering5/11/2018 @ 05:48:23Color SpaceGamma5/11/2018 @ 05:26:31Auto Graphics APITrue5/11/2018 @ 05:11:39APIsMetal Open GLES25/11/2018 @ 05:04:10Force Hard Shadow On MetalFalse5/11/2018 @ 04:57:13Static BatchingTrue4/25/2018 @ 00:13:01Dynamic BatchingTrue6PIL SkinningFalse	5/23/2018 @ 19:54:59	Debug And Cr	ash Reporting		
Ising only enceptionInter5/23/2018 @ 19:30:43Enable Crash ReportFalse5/23/2018 @ 05:48:23 Rendering 5/11/2018 @ 05:36:10Color SpaceGamma5/11/2018 @ 05:26:31Auto Graphics APITrue5/11/2018 @ 05:04:10Force Hard Shadow On Metal Open GLES25/11/2018 @ 04:57:13Static BatchingTrue6/11/2018 @ 00:13:01CPU SkinningTrue6/11/2018 @ 00:13:01CPU SkinningFalse6/11/2018 @ 00:13:01CPU SkinningFalse6/11/2018 @ 00:13:01CPU SkinningFalse6/11/2018 @ 00:13:01CPU SkinningFalse	5/23/2018 @ 19:52:21	Unhandled Except	on Crash		
S/23/2018 @ 17:34:18RenderingS/11/2018 @ 05:48:23Color SpaceGammaS/11/2018 @ 05:36:10Auto Graphics APITrueS/11/2018 @ 05:26:31APIsMetal Open GLES2S/11/2018 @ 05:04:10Force Hard Shadow On MetalFalseS/11/2018 @ 04:57:13Static BatchingTrueBy Jamic BatchingTrueCPII SkinningFalse	5/23/2018 @ 19:50:58	Log Obj C Exceptio	on True		
Rendering5/11/2018 @ 05:48:235/11/2018 @ 05:36:10Color SpaceAuto Graphics APIAuto Graphics APIAPIsAPIsForce Hard Shadow On MetalForce Hard Shadow On MetalStatic BatchingDynamic BatchingFull SkinningFalse	5/23/2018 @ 19:30:43	Enable Crash Repo	rt False		
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5/11/2018 @ 05:04:10 Static Batching True 5/11/2018 @ 04:57:13 Dynamic Batching True 4/25/2018 @ 00:13:01 CPU Skinning False	5/11/2018 @ 05:11:39	APIs	Metal Ope	n GLES2	
4/25/2018 @ 00:13:01 Dynamic Batching True	5/11/2018 @ 05:04:10	Force Hard Shadov	v On Metal False		
4/25/2018 @ 00:13:01	5/11/2018 @ 04:57:13	Static Batching	True		
4/24/2018 @ 18:45:42 GPU Skinning False	4/25/2018 @ 00:13:01	Dynamic Batching	True		
	4/24/2018 @ 18:45:42	GPU Skinning	False		

6.3 Used and Unused Assets

These two panels give you a detailed list of the assets included or not in your build.

					Ó
	Overview	Build Settings	Unused A	ssets	Used Asset
l Builds					
30/2018 @ 22:05:31	Total Siz	е			
23/2018 @ 23:31:17	9.66 MB				
3/2018 @ 19:54:59	Type to filter				
3/2018 @ 19:52:21	Asset Path		Imported Size	Raw Size	Percentage
/2018 @ 19:50:58	Assets/Models/Car/f	bx.fbx	7.00 MB	10.90 MB	10.70 %
018 @ 19:30:43	Assets/Models/Car/M	laterials/Textures/Parts	682.8 KB	1.81 MB	1.00 %
@ 17:34:18	Resources/unity_built	in_extra	559.4 KB	N/A	0.80 %
o @ 17.54.18	Assets/Models/Car/M	laterials/Textures/Licen	341.5 KB	54.3 KB	0.50 %
8 @ 05:48:23	Assets/Models/Car/M	laterials/Textures/Ligth	\$ 170.8 KB	4.8 KB	0.30 %
@ 05:36:10	Assets/Textures/thib	ault.jpg	170.8 KB	173.6 KB	0.30 %
@ 05:26:31	Assets/Models/Car/M	laterials/Wheel_Mats/N	c 85.5 KB	86.1 KB	0.10 %
	Assets/Models/Car/F	lares/Textures/Indicator	85.5 KB	25.9 KB	0.10 %
3 @ 05:11:39	Assets/Models/Car/F	lares/Textures/TailFlare	85.5 KB	25.6 KB	0.10 %
05:04:10	Assets/Models/Car/F	lares/Textures/FrontFla	85.5 KB	26.8 KB	0.10 %
@ 04:57:13	Assets/Models/Car/F	lares/Textures/BrakeFla	85.5 KB	47.8 KB	0.10 %
@ 00:12:01	Assets/Textures/text	ure.png	78.7 KB	238.8 KB	0.10 %
8 @ 00:13:01	Assets/Models/Car/M	laterials/Wheel_Mats/D	42.8 KB	0.7 KB	0.10 %
018 @ 18:45:42	Assets/Models/Car/M	laterials/Wheel_Mats/Sp	42.8 KB	20.2 KB	0.10 %

6.3.1 Assets Information

The Total Size on top of the list is the sum of all the assets Imported Size.

- **Imported Size** This is the size of the asset after it was imported in the player. For example, if the asset is a .psd file and is imported under the format ETC 4 bits in the player, then Imported Size will display the size of the later.
- **Raw Size** This is the original size of the asset imported in Unity. This is the size that directly impacts your VCS repository size.
- **Percentage** This is the percentage that represents the *Imported Size* over the total size of the build you can read on the *Overview* panel.

Note: Note that you can re-order the assets by clicking on the columns header.

6.3.2 Filtering

Simple search

You can filter which assets should be listed by entering a value in the search field. .Peek will list all the assets which path contains all of the word you input. For example, if you enter .png car, all the asset with a path containing .png and car will be displayed. The search field is case unsensitive.

Typed search

You can also filter the assets by type. You simply need to input t:[asset type]. This can be used on top of the simple search, like for example : car t:texture renault. The values accepted are:

t:texture Displays files with extention : .png, .tga, .psd, .tif, .jpg, .jpeg, .gif, .bmp, .iff, .pict

t:audio Displays files with extention : .mp3, .ogg, .wav, .aiff, .aif, .mod, .it, .s3m, .xm

t:model Displays files with extention : .fbx, .dae, .3ds, .dxf, .obj, .skp, .ma, .mb, .max, .c4d, .blend

t:plugin Displays files with extention : .dll, .jar, .so, .aar, .a

t:shader Displays files with extention : *.shader*, *.cginc*

These extensions are based on what is supported in Unity. Don't hesitate to create a pull request or open an issue on Github if you find out relevant to add an extension here.

Settings

The settings page is accessible from the **Settings** button on the top of .Peek window. Some settings are personal settings, which means they are saved in the folder [Unity Project]/.wellfired which should be ignored from your VCS. Some settings are team shared and are saved in [Unity Project]/WellFired which should be added to your VCS repository, they are marked with



Tip: Note that these settings can be controlled programmatically if you want to enforce .Peek behaviour on different computers (for Continuous Integration for example).

\bigcirc	Auto generate report		
\bigcirc	Automatically open		
Build	reports location	Report	
\bigcirc	Track VCS version		
\bigcirc	Activate .Peek Logs		

Auto generate report If this option is turned on, .Peek will generate a report at the end of a build. You have the possibility to turn off this option and programmatically ask DotPeek to generate a report. This is a personal

setting.

Automatically open When turned on, .Peek window will automatically open at the end of a build and display the new generated report. This is a personal setting.

Build reports location This is the location where reports are saved.

• Relative paths are team shared . Therefore, if you input "../BuildReports" as report location, then all

of your team members will have their build reports saved in [Unity Project]/../BuildReports.

• Absolute path are personal, then it will not affect other team members reports location. Note that if you indicate a location inside the Unity project, it will be automatically converted to a relative location.

Tip: Different Unity projects can save their reports in the same folder. Indeed, .Peek will create a subfolder with the GUID it assigned to your Unity project. The GUID is a team shared setting.

Track VCS version If enable and SVN or GIT is installed on your computer, the version of the commit you are

building will appear in the report.

If not all your modification are committed, then *-unsync* will be added to the version (such as : **Commit Id** *4baa424-unsync*).

Windows users may need to ensure these VCS are installed on the command line. Computers not supporting it will simply display **Commit Id** *unknow* no matter this option is enabled or not.

Activate .Peek logs This will activate logs when .Peek is running. This will decrease .Peek performances and should be activated only if necessary to debug an issue you are meeting with .Peek.

Team icon on this page is provided for free by Icons8

Programmatic Control

8.1 Settings

All the settings you can access through .Peek UI are available through code and can be read or overwritten.

To do so :

1. Add the required using :

using WellFired.Peek.Application.Unity.Editor;

2. Access and modify your .Peek personal options (stored on your computer only, see *Settings* for more information) :

```
DotPeek.Storage.PersonalOptions.BuildReportPath = "../DotPeekReports";
DotPeek.Storage.PersonalOptions.AutomaticallyShowReportAfterBuild = false;
```

3. Access and modify your .Peek team-shared options :

DotPeek.Storage.TeamOptions.TrackVCSVersion = false;

4. Save your changes to ensure .Peek can access updated settings :

DotPeek.Storage.Save();

Warning: Saving step cannot be ommited. Indeed, it will ensure settings that were modified are written to the disk and are accessible to the whole .Peek application.

Tip: .Peek Storage is thread safe, so the thread you are accessing it from does not matter.

8.2 Callbacks Order

DotPeek build generation is driven by two callbacks automatically called by Unity when building :

• IPreprocessBuild.OnPreprocessBuild which happens just before the build starts.

When it is called, .Peek will start counting the time used to build and get the VCS commit ID of your project. Note that if beforehand some files were not commited, .Peek will add *-unsync* behind the commit ID.

• IPostprocessBuild.OnPostprocessBuild which is called once the build is done.

When it is called, the time elapsed to make the build is saved and the report generated. Note that at that moment, all the files that are in the project, but were not added to the build are considered as unused assets.

Different modules in your project may use these callbacks, and Unity will decide which one to call first based on IPreprocessBuild.callbackOrder and IPostprocessBuild.callbackOrder

.Peek by default try to be called as early as possible and as late as possible, but you can programmatically change this behaviour by :

1. Adding the required using :

```
using WellFired.Peek.Application.Unity.Editor;
```

2. Modifying the callback order :

```
DotPeek.Storage.TeamOptions.PrebuildCallbackOrder = int.MinValue + 1;
DotPeek.Storage.TeamOptions.PostbuildCallbackOrder = int.MaxValue - 1;
```

3. Saving your changes to ensure .Peek can access updated settings :

```
DotPeek.Storage.Save();
```

8.3 Manually start .Peek metric counters

There is some situations you might not want to rely on the IPreprocessBuild.OnPreprocessBuild.

Indeed, when this Unity callback is called, .Peek will check your VCS status and starts counting how much time your build takes.

If ever your build pipeline is based on a custom script that executes some operations before Unity Build-Pipeline.BuildPlayer is called, then when OnPreprocessBuild is called, your VCS may already have some local changes, or your build may already have taken several minutes, which will lead .Peek to display wrong information at the end of the build.

To avoid this situation you can force .Peek to start tracking these information before BuildPipeline.BuildPlayer is called. Here the steps :

1. Add the required using :

using WellFired.Peek.Application.Unity.Editor;

2. Start .Peek session with the Unity build target you are building for :

DotPeek.StartSession(BuildTarget.Android);

That's it !

Continuous Integration

.Peek was designed to provide a quick feedback to Unity users about the status of their project, but also to be nicely integrated on any Continuous Integration pipeline.

Through the Programmatic Control of DotPeek, you can ensure that your CI run .DotPeek with consistant settings.

Hereunder are more ways of optimizing .Peek usage on a CI machine.

9.1 Getting informed when build report is ready

For optimized performances, .Peek generate your build report on threads. It means that when you call Unity on the command line, you should not do it with the parameter *-quit*. This would quit the editor as soon as the Unity editor main thread finished the task it was assigned on the command line.

To allow you to quit unity after the report was generated, .Peek provides you the interface *IDotPeekListener*. You first need to implement it :

```
private class DotPeekListener : IDotPeekListener
{
    public void DoBuildReportGenerated(string reportAbsolutePath)
    {
        //do here what you want after the build is generated
    }
}
```

And then to provide this listener to .Peek :

DotPeek.Listener = new DotPeekListener();

Below is a whole functional usage example :

```
using UnityEditor;
using WellFired.Peek.Application.Unity.Editor;
```

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```
[InitializeOnLoad]
public static class DotPeekInitializer
{
    static DotPeekInitializer()
    {
        DotPeek.Listener = new DotPeekListener();
    }
    private class DotPeekListener : IDotPeekListener
    {
        public void DoBuildReportGenerated(string reportAbsolutePath)
        {
            //Will quit Unity with error code 0, indicating no error happened.
            EditorApplication.Exit(0);
        }
    }
}
```

The parameter reportAbsolutePath is the path to your freshly generated report. It can be useful if you want to send the report to an other machine for example (website server, NAS, \dots)

9.2 VCS Version

If .Peek option is enabled and your project versions are tracked through GIT or SVN, the commid id at build time will be automatically saved with your generated report. This is done through the terminal of your machine.

If for any reason .Peek cannot access the terminal of the machine it is running on, you can provide an implementation of IVCS and return to .Peek the value you want :

```
private interface IVCS
{
    string GetCommitId();
}
```

This can be useful for example if the access to the commit id can be done only through the parameters passed to Unity through the command line. Here an illustration :

The command being called :

The implementation of the static function being called in Unity :

```
using UnityEditor;
class MyEditorScript
{
    static void PerformBuild ()
    {
        DotPeek.CustomVCS = new DotPeekVCS();
        string[] scenes = { "Assets/MyScene.unity" };
        BuildPipeline.BuildPlayer(scenes, ...);
    }
}
```

with DotPeekVCS implemented this way :

```
private class DotPeekVCS : IVCS
{
    public string GetCommitId()
    {
        var args = Environment.GetCommandLineArgs().ToList();
        var optionPosition = args.IndexOf("-VCS");
        var vcsCommitId = args[optionPosition + 1];
        return vcsCommitId;
    }
}
```

.Profile API

10.1 Classes

10.1.1 BuildReportHelper

Namespace: WellFired.Peek

Description

Public Static Methods

async Task<	GenerateAndSaveReport (IBuildReportGenerator buildReportGenerator, IBuildReportStorage
BuildReport >	reportStorage, string savingPath, string commitId, Stopwatch stopwatch)

Breakdown

• async Task< BuildReport > GenerateAndSaveReport (IBuildReportGenerator buildReportGenerator, IBuildReportStorage reportStorage, string savingPath, string commitId, Stopwatch stopwatch)

10.1.2 DotPeekSession

Namespace: WellFired.Peek

Implements: WellFired.Peek.Application.IDotPeekSession

Description

Properties

IDotPeekSessionListener { get; set; }

Public Methods

	DotPeekSession (IVCS vcs, IStorage storage, IPlatformTools platformTools, IBuildReportGenerator buil-				
	dReportGenerator, IBuildReportStorage buildReportStorage, IWindowLauncher windowLauncher)				
void	PreProcessBuild (Platform platform)				
void	PostProcessScene (string scenePath)				
void	PostProcessBuild ()				
void	OpenWindow ()				
async	PostProcessBuildTask ()				
Task					

Breakdown

- IDotPeekSessionListener Listener { get; set; }
- **DotPeekSession** (IVCS vcs, IStorage storage, IPlatformTools platformTools, IBuildReportGenerator buildReportGenerator, IBuildReportStorage buildReportStorage, IWindowLauncher windowLauncher)
- void PreProcessBuild (Platform platform)
- void PostProcessScene (string scenePath)
- void **PostProcessBuild** ()
- void **OpenWindow**()
- async Task PostProcessBuildTask ()

10.1.3 BuildPostProcessor

Namespace: WellFired.Peek.Application.Unity.Editor

Description

Properties

int callbackOrder { get; set; }

Public Methods

void *OnPostprocessBuild* (BuildTarget target, string path)

Breakdown

- int callbackOrder { get; set; }
- void **OnPostprocessBuild** (BuildTarget target, string path)

10.1.4 BuildPreProcessor

Namespace: WellFired.Peek.Application.Unity.Editor

Description

Properties

int callbackOrder { get; set; }

Public Methods

void *OnPreprocessBuild* (BuildTarget target, string path)

Breakdown

- int callbackOrder { get; set; }
- void **OnPreprocessBuild** (BuildTarget target, string path)

10.1.5 OpenDotPeek

Namespace: WellFired.Peek.Application.Unity.Editor

Description

Public Static Methods

void *Launch* ()

Breakdown

• void Launch ()

10.1.6 SceneProcessor

Namespace: WellFired.Peek.Application.Unity.Editor

Description

Public Static Methods

void PostProcessSceneAttribute()

Breakdown

• void PostProcessSceneAttribute ()

10.1.7 DotPeek

Namespace: WellFired.Peek.Application.Unity

Implements: WellFired.Peek.Application.IDotPeekSessionListener

Description

This is a public wrapper around .:ref:*Peek<namespacewellfired_peek>* application. It gives access to different utilities allowing a total control of .:ref:*Peek<namespacewellfired_peek>*.

Properties

IDotPeekListener	Listener { get; set; }
IVCS	CustomVCS { get; set; }
Storage	<pre>Storage { get; set; }</pre>

public-static-attrib

bool	SessionStarted
IDotPeekSession	CurrentSession

Public Static Methods

void	<i>StartSession</i> (BuildTarget target)
void	EndSession ()
void	OpenWindow ()

Public Methods

void DoBuildReportGenerated (string reportAbsolutePath)

• IDotPeekListener Listener { get; set; }

Description

Give access to .:ref:*Peek<namespacewellfired_peek>* callbacks, like when the report is generated and where it is stored for example.

• IVCS CustomVCS { get; set; }

Description

Allows to provide a custom commit id to .:ref:*Peek<namespacewellfired_peek>* when it is generating the build report.

• Storage Storage { get; set; }

Description

Allows to read or modify .:ref:*Peek<namespacewellfired_peek>* settings on the disk.

bool SessionStarted

Description

Returns true if a session was started already.

• IDotPeekSession CurrentSession

Description

Returns the current IDotPeekSession.

• void StartSession (BuildTarget target)

Description

Creates a new IDotPeekSession that will receive the different callbacks from the game engine when build is being processed. When a new session is started, then the previous one is not referenced anymore.

• void EndSession ()

Description

Finishes a IDotPeekSession.

• void OpenWindow ()

Description

Open the *DotPeek* window in Unity.

• void DoBuildReportGenerated (string reportAbsolutePath)

Description

This is called after the build report was generated and saved on the disk.

10.1.8 WindowLauncher

Namespace: WellFired.Peek.Application.Unity

Implements: WellFired.Peek.Application.IWindowLauncher

Public Methods

void *Launch* (string companyName, string applicationName, string applicationTitle)

Breakdown

• void Launch (string companyName, string applicationName, string applicationTitle)

10.1.9 GIT

Namespace: *WellFired.Peek.Application.VCS* Implements: WellFired.Peek.Application.VCS.IVCS

Description

Public Methods

string *GetCommitId* ()

Breakdown

• string GetCommitId ()

Description

Provide the current commit id.

10.1.10 GITException

Namespace: WellFired.Peek.Application.VCS

Description

Public Properties

override string Message

Public Methods

GITException (string command, string error)

- override string Message
- GITException (string command, string error)

10.1.11 GITInspector

Namespace: WellFired.Peek.Application.VCS

Implements: WellFired.Peek.Application.VCS.IVCSInspector

Description

Public Methods

bool	IsRepository (string location)
RepositoryInfo	GetRepositoryInfo (string location)

Breakdown

- bool IsRepository (string location)
 - Description

Detect if this IVCSInspector is compatible with the VCS used at the location specified.

Parameters

location

• RepositoryInfo GetRepositoryInfo (string location)

Description

Get information about the state of the repository at the location specified.

Parameters

location

10.1.12 NoVCS

Namespace: WellFired.Peek.Application

Implements: WellFired.Peek.Application.VCS.IVCS

Description

This is used when no VCS used by the project could be detected.

Public Methods

string *GetCommitId* ()

Breakdown

• string GetCommitId ()

Description

Provide the current commit id.

10.1.13 OSEnvironment

Namespace: WellFired.Peek.Application

Description

Public Static Methods

string	RunCommand (string command, string args, out string retErrors)
string	RunCommand (string command, string args, string workingDirectoy, out string retErrors)
string	GetWorkingDirectory ()

Breakdown

- string RunCommand (string command, string args, out string retErrors)
- string RunCommand (string command, string args, string workingDirectoy, out string retErrors)
- string GetWorkingDirectory ()

10.1.14 RepositoryInfo

Namespace: WellFired.Peek.Application

Description

Info about the status of a local repository

Public Properties

string	CommitID
RepositoryStatus	Status

• string CommitID

Description

The commit Id checked out.

RepositoryStatus Status

Description

Indicates if the local repository is synchronized with the remote one or not.

10.1.15 SVN

Namespace: WellFired.Peek.Application.VCS

Implements: WellFired.Peek.Application.VCS.IVCS

Description

Public Methods

string *GetCommitId* ()

Breakdown

```
• string GetCommitId ()
```

Description

Provide the current commit id.

10.1.16 SVNException

Namespace: WellFired.Peek.Application.VCS

Description

Public Properties

override string Message

Public Methods

SVNException (string command, string error)

- override string Message
- SVNException (string command, string error)

10.1.17 SVNInspector

Namespace: WellFired.Peek.Application.VCS

Implements: WellFired.Peek.Application.VCS.IVCSInspector

Description

Public Methods

bool	IsRepository (string location)
RepositoryInfo	GetRepositoryInfo (string location)

Breakdown

- bool IsRepository (string location)
 - Description

Detect if this IVCSInspector is compatible with the VCS used at the location specified.

Parameters

location

• RepositoryInfo GetRepositoryInfo (string location)

Description

Get information about the state of the repository at the location specified.

Parameters

location

10.1.18 VCSUtils

Namespace: WellFired.Peek.Application

Description

Public Static Methods

IVCS GetVCSInUse()

• IVCS GetVCSInUse ()

Description

Detect which VCS is being used at the location the dll is being executed and return the relevant IVCS.

10.1.19 Constants

Namespace: WellFired.Peek

Description

Public Properties

const string	ApplicationName
const string	CompanyName
const string	ApplicationTitle
const string	BuildReportExtention

Breakdown

- const string ApplicationName
- const string CompanyName
- const string **ApplicationTitle**
- const string BuildReportExtention

10.1.20 FileExtensions

Namespace: WellFired.Peek

public-static-attrib

readonly string[]	Animation
readonly string[]	Texture
readonly string[]	Model
readonly string[]	Prefab
readonly string[]	Asset
readonly string[]	Material
readonly string[]	Audio
readonly string[]	Plugin
readonly string[]	Script
readonly string[]	Shader
readonly string[]	Scene
readonly string[]	Ignored

Public Static Methods

IEnumerable< string > *GetExtensions* (string value)

Breakdown

- readonly string[] Audio
- readonly string[] Animation
- readonly string[] Model
- readonly string[] Prefab
- readonly string[] Asset
- readonly string[] Material
- readonly string[] **Texture**
- readonly string[] Plugin
- readonly string[] Script
- readonly string[] Shader
- readonly string[] Scene
- readonly string[] Ignored
- IEnumerable< string > GetExtensions (string value)

10.1.21 FileSizeComparer

Namespace: WellFired.Peek

Public Methods

int *Compare* (FileSize x, FileSize y)

Breakdown

• int Compare (FileSize x, FileSize y)

10.2 Interfaces

10.3 Namespaces

10.3.1 VCS

Namespace: WellFired.Peek

Description

Breakdown

10.3.2 Data

Namespace: WellFired

Description

Breakdown

10.3.3 Model

Namespace: WellFired

Description

Breakdown

10.3.4 ProjectSettings

Namespace: WellFired.Peek

Breakdown

10.4 Enums

10.4.1 RepositoryStatus

Namespace: WellFired.Peek.Application.VCS

Description

Status of the repository

NotSync	The repository contains modifications not pushed to the remote repository.
SyncToCommit	The checked out version is not the latest one, but files does not contains any modification.
SyncToHead	The checked out version is the latest one, and files does not contains any modification.

10.4.2 Category

Namespace: WellFired.Peek.Data

Undefined
Textures
Meshes
Animations
Sounds
Shaders
OtherAssets
Levels
Scripts
IncludedDLLs
FileHeaders
StreamingAssets
Settings
IndividualBuildReport
NoBuildReports
Overview
UsedAssets
UnusedAssets
BuildSettings
Android
IOS
WindowsStandalone
WindowsStandalone_64
StandaloneOSX
MacStandalone_x86
MacStandalone_x86_64
LinuxStandalone
LinuxStandalone_64
LinuxStandaloneUniversal

10.4.3 PreprocessorOrigin

Namespace: WellFired.Peek.Model

Description

Log
Editor

10.4.4 VertexCompression

Namespace: WellFired.Peek.Model.ProjectSettings

Description

Nothing
Position
Normal
Color
Uv0
Uv1
Uv2
Uv3
Tangent
Everything
SlowAndSafe
Fast
ArMv7
Arm64
Universal
IPhone
IPad IP 1
IPhoneIPad
Mono
IL2CPP
Net2
Net2Subset
Net4_6
Net35
Net46
Metal
OpenGLES3
OpenGLES2
Vulkan
Direct3D_11
Direct3D 9
Direct3D 12
OpenGLCore
Direct3D_11 Direct3D_9 Direct3D_12 OpenGLCore Gamma
Linear
Crash
SilentExit
Disabled
StripAssemblies
StripByteCode
Internal
External
Automatic
External
Internal
FAT
ARMv7
x86