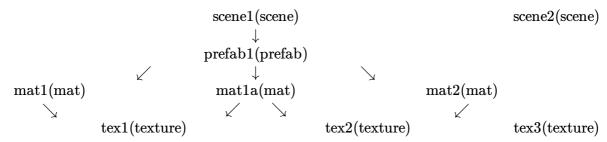
# 关于 AssetBundle 的一些实践

① Created	@December 22, 2022 2:58 PM
:≡ Tags	

# 测试资源引用



# 打包批次

- origin: prefab (prefab1) | mat1 (mat1) | mat1a (mat1a) | mat2 (mat2) | tex (tex1,tex2)
- origin-a: prefab (prefab1) | mat1 (mat1) | mat1a (mat1a) | mat2 (mat2)
- origin-b: mat1a (mat1a) | tex-rename (tex1,tex2)
- origin-c : tex (tex3)
- scene-a: scene1 (scene1)
- scene-a1: scene1 → scene1-rename) 【这里手动改资源名后打包】
- scene-a2: scene1 (scene1)【名字没变但是换了路径】
- scene-b: scene1-rename (scene1)
- scene-c: scene1 (scene2)
- scene-c1: scene1 (scene2 → scene1)【名字改成和scene1相同,但是放在不同路径】
- scene-d: scene (scene1,scene2)



Unity会在同一批次打包从处理依赖关系。

## 测试

- 1. origin-1
  - 加载包顺序
    - $\circ \hspace{0.2cm} \texttt{prefab} \hspace{0.1cm} (\textbf{origin}) \hspace{0.1cm} \rightarrow \hspace{0.1cm} \texttt{mat1} \hspace{0.1cm} (\textbf{origin}) \hspace{0.1cm} \rightarrow \hspace{0.1cm} \texttt{mat2} \hspace{0.1cm} (\textbf{origin}) \hspace{0.1cm} \rightarrow \hspace{0.1cm} \texttt{tex} \hspace{0.1cm} (\textbf{origin})$
    - o prefab (origin) → mat1 (origin) → mat1a (origin) → mat2 (origin)
    - o prefab (origin) → mat1a (origin)
  - 显示效果







- 输出无报错。
- 结论
  - 。 未加载引用Asset所在的AssetBundle,Asset会Missing,但是不会报错。

## 2. origin-2

• 加载包顺序

```
\circ prefab (origin-a) \rightarrow mat1 (origin-a) \rightarrow mat1a (origin-a) \rightarrow mat2 (origin-a)
```

- o prefab (origin-a) → mat1a (origin-a)
- 显示效果





- 输出无报错。
- 结论
  - 。 未指定AssetBundle的Asset在被引用时会复制进引用其的资源所在的AssetBundle中,可能会 复制到多个AssetBundle中,不会报错和冲突。

## 3. origin-3

• 加载包顺序

$$\circ \quad \text{prefab} \ (\text{origin-a}) \ \to \ \text{mat1} \ (\text{origin}) \ \to \ \text{mat1a} \ (\text{origin-a}) \ \to \ \text{mat2} \ (\text{origin}) \ \to \ \text{tex} \ (\text{origin})$$

- o prefab (origin-a) → mat1 (origin) → mat1a (origin-a) → mat2 (origin)
- 显示效果





- 输出无报错。
- 结论
  - 。 不同批次的AssetBundle间可以互相引用(这是AssetBundle资源更新的基础)。
  - 。 同一Asset可以既存在在一个显式指定AssetBundle中,又存在在被隐式复制到的AssetBundle中,不会报错和冲突。

# 4. origin-4

- 加载包顺序
  - o prefab (origin) → mat1 (origin) → mat1a (origin) → mat2 (origin) → tex (origin) → tex (origin)
  - o prefab (origin) → mat1 (origin) → mat1a (origin) → mat1a (origin-a) → mat2 (origin)
  - $\circ$  prefab (origin)  $\rightarrow$  mat1 (origin)  $\rightarrow$  mat1a (origin-a)  $\rightarrow$  mat1a (origin)  $\rightarrow$  mat2 (origin)
- 显示效果







#### • 输出

- The AssetBundle 'tex' can't be loaded because another AssetBundle with the same files is already loaded.
- The AssetBundle 'mat1a' can't be loaded because another AssetBundle with the same files is already loaded.
- The AssetBundle 'mat1a' can't be loaded because another AssetBundle with the same files is already loaded.

#### 结论

。 包含相同Asset的相同名字的AssetBundle只允许同时加载一次,后面重复的加载会报错并失效。

### 5. origin-5

• 加载包顺序

- $\circ$  prefab (origin)  $\rightarrow$  mat1 (origin)  $\rightarrow$  mat1a (origin)  $\rightarrow$  mat2 (origin)  $\rightarrow$  tex (origin)  $\rightarrow$  texrename (origin-b)
- o prefab (origin) → mat1 (origin) → mat1a (origin) → mat2 (origin) → tex (origin) →
  tex (origin-c)
- o prefab (origin) → mat1 (origin) → mat1a (origin) → mat2 (origin) → tex (origin) → tex (origin-b) 【这里打包后手动改文件名】
- prefab (origin) → mat1 (origin) → mat1a (origin) → mat2 (origin) → tex (origi

# • 显示效果



	mat1	mat1a	mat2	
direct		G.	<b>©</b>	
origin-	5	<u>G</u>	<b>©</b>	

	mat1	mat1a	mat2	
direct		C.	<b>©</b>	
origin-	5	Q.	<b>2</b>	

	mat1	mat1a	mat2	
direct		G.	<b>2</b>	
origin-	5	<u>C</u>	0	

# • 输出

- 。 无报错。
- The AssetBundle 'tex' can't be loaded because another AssetBundle with the same files is already loaded.

- 。 无报错。
- The AssetBundle 'tex-rename' can't be loaded because another AssetBundle with the same files is already loaded.
- 结论
  - 。 相同名字的AssetBundle同时只能加载一次,这个名字指打包时候指定的AssetBundleName, 与生成的文件名无关,与AssetBundle中的Asset无关。

#### 6. **scene-1**

- 加载包顺序
  - o scene1 (scene-a) → scene1-rename (scene-b)
  - o scene1 (SCene-a) → scene1 (SCene-c)
  - o scene1 (scene-a) → scene (scene-d)
- 显示效果

无

- 输出
  - The AssetBundle 'scene1-rename' can't be loaded because another AssetBundle with the same files is already loaded.
  - 。无报错。
  - Scene 'Assets/Res/origin/scene1.unity' from AssetBundle 'scene' is already registered with another AssetBundle 'scene1'.
- 结论
  - 。 包含相同Scene的AssetBundle即使打包时候指定的AssetBundleName不同,也不能同时加载 多次。

## 7. **scene-2**

- 加载包顺序
  - o scene1 (scene-a) → scene1 (scene-a1)
  - o scene1 (scene-a) → scene1 (scene-a2)
  - o scene1 (scene-a) → scene1 (scene-c1)
- 显示效果

无

- 输出
  - 。无报错。

- The AssetBundle 'scene1' can't be loaded because another AssetBundle with the same files is already loaded.
- The AssetBundle 'scene1' can't be loaded because another AssetBundle with the same files is already loaded.

# 结论

。 包含相同名字Scene的AssetBundle即使打包时候指定的AssetBundleName不同,也不能同时加载多次。