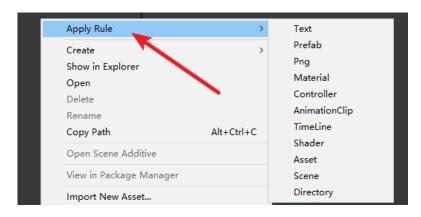
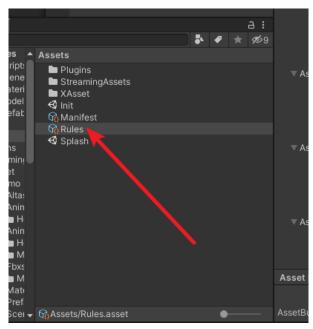
主要看Menultems.cs 文件

1 Apply Rule,对应的是Rules.assets文件





```
internal static BuildRules GetBuildRules ()
{
    return GetAsset<BuildRules> ( path: "Assets/Rules.asset");
}
```

这些都可以自定义类型

2 Build Rule, 调用BuildScript.AppBuildRules方法,最后还是调用BuildRules.Apply方法

```
[MenuItem(KApplyBuildRules)]
2 hexinping
private static void ApplyBuildRules()
{
    var watch = new Stopwatch();
    watch.Start();
    BuildScript.ApplyBuildRules();
    watch.Stop();
    Debug.Log( message: "ApplyBuildRules " + watch.ElapsedMilliseconds + " ms.");
}
```

BuildRules.Apply==》获取每个rule的相关信息 (ruleAssets和ruleBundles)

```
□1 usage ② hexinping
public void Apply()
{
    // 先清一遍数据
    Clear();
    // 收集Assets
    CollectAssets();
    // 分析Assets, 记录ab之间的依赖项
    AnalysisAssets();
    // 优化Asset, 处理重复资源
    OptimizeAssets();
    // 保存数据
    Save();
}
```

a. CollectAssets,ruleAssets里记录的是文件和对应bundle的信息

```
| Discrete | Discrete
```

```
| Debug Labermeng | Debug Labermeng | Debug Labermeng Labermeng | Debug Labermeng | Debug Labermeng Laber
```

b. AnalysisAssets

```
//asset 是全路径
②lusage ② hexinping
private void Track(string asset, string bundle)
{
    HashSet<string> assets;
    if (!_tracker.TryGetValue(asset, out assets))
    {
        assets = new HashSet<string>();
        _tracker.Add(asset, assets);
    }

    assets.Add(bundle);
    if (assets.Count > 1)
    {
        //重复资源
        string bundleName;
        _asset2Bundles.TryGetValue(asset, out bundleName);
        if (string.IsNullOrEmpty(bundleName))
        {
        _duplicated.Add(asset);
        }
    }
}
```

c. OptimizeAssets

d. Save 保存数据,ruleBundles记录的是bundle对应的文件信息

```
Dlusage & hexinping*
private void Save()
{
    var getBundles = GetBundles(); //返回的是一个Dictionary<BundleName, List<FilePath>>
    ruleBundles = new RuleBundle[getBundles.Count]; //bundleName+文件列表信息 ==) 每个Bundle的信息
    var i = 0;
    foreach (var item in getBundles)
    {
        ruleBundles[i] = new RuleBundle
        {
             name = item.Key, //BundleName
            assets = item.Value.ToArray() //文件列表
        };
        i++;
    }
    EditorUtility.ClearProgressBar();
    EditorUtility.SetDirty( target this);
    AssetDatabase.SaveAssets();
}
```

3 Builde Bundles ,会强制调用一遍ApplyBuildRules,再调用BuildAssetBundles

```
[MenuItem(KBuildAssetBundles)]

$ hexinping
private static void BuildAssetBundles()
{
    var watch = new Stopwatch();
    watch.Start();
    //首先执行一過apply rule
    BuildScript.ApplyBuildRules ();
    BuildScript.BuildAssetBundles();
    watch.Stop();
    Debug.Log( message: "BuildAssetBundles " + watch.ElapsedMilliseconds + " ms.");
}
```

a. 打不同的ab包

b. 刷新Manifest.asset文件

游戏启动时会优先加载Manifest的ab包,记录bundle信息

```
### Blussee Abeninping
internal static void <a href="mailto:niceastange">ninternal static void <a href="mai
```

c. 打Manifest的ab包

```
var manifestBundleName = "manifest.unity3d";
builds = new[] {
    new AssetBundleBuild {
        assetNames = new[] { AssetDatabase.GetAssetPath (manifest), },
        assetBundleName = manifestBundleName
    }
};

//打manifest的ab包
BuildPipeline.BuildAssetBundles(outputPath, builds, options, targetPlatform);
ArrayUtility.Add(ref bundles, manifestBundleName);
```

d: 写入版本信息

```
//写入版本信息
int version = GetBuildRules().AddVersion();
Versions.BuildVersions(outputPath, bundles, version);
}
```

4 Build Player, 调用BuildeScript的BuildStandalonePlayer方法,

EditorUserBuildSetting.activeBuildTarget

Application.platform还是editor

5 View Bundles ==> 打开bundle的下载路径

```
[MenuItem(KViewDataPath)]
2 hexinping
private static void ViewDataPath()
{
    EditorUtility.OpenWithDefaultApp(Application.persistentDataPath);
}
```

6 Copy Bundles,仅仅把res和ver文件拷贝进去, ver文件是打包是生成的版本记录文件,里面记录了所有的ab信息,热更新阶段会使用

```
[MenuItem(KCopyBundles)]
& hexinping
private static void CopyAssetBundles()
{
    BuildScript.CopyAssetBundlesTo(Application.streamingAssetsPath);
}
```

```
It usage 2 hexinping
public static void CopyAssetBundlesTo (string path)

var files = new[] {
    Versions.Dataname,
    Versions.Filename,
};

if (!Directory.Exists (path)) {
    Directory.CreateDirectory (path);
}

foreach (var item in files) {
    var src = outputPath + "/" + item;
    var dest = Application.streamingAssetsPath + "/" + item;
    if (File.Exists (src)) {
        File.Copy ( sourceFileName: src, dest, loverwrite: true);
      }
}
```

```
public const string Dataname = "res";
public const string Filename = "ver";
```