11.WhenAll

LINQ All 简介

确定序列中的所有元素是否都满足条件。

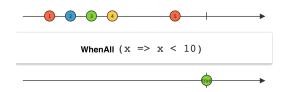
LINQ All 示例代码

```
/*******************************
 * http://sikiedu.com liangxie
 ******************************
using System.Linq;
using UnityEngine;
namespace UniRxLesson
   public class LINQAllExample : MonoBehaviour
      private class Pet
       {
          public string Name { get; set; }
          public int Age { get; set; }
      }
      private void Start()
       {
          Pet[] pets =
              new Pet {Name = "Barley", Age = 10},
              new Pet {Name = "Boots", Age = 4},
              new Pet {Name = "Whiskers", Age = 6}
          };
          var allStartWithB = pets.All(pet =>
              pet.Name.StartsWith("B"));
          Debug.LogFormat(
              "{0} pet names start with 'B'.",
              allStartWithB ? "All" : "Not all");
      }
   }
}
```

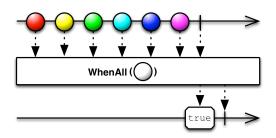
输出结果为:

UniRx WhenAll 示意图

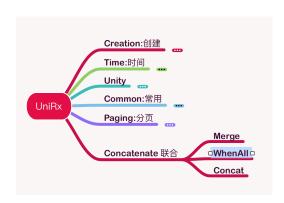
判定是否Observable发射的所有数据都满足某个条件



传递一个谓词函数给 WhenAll 操作符,这个函数接受原始 Observable 发射的数据,根据计算返回一个布尔值。WhenAll 返回一个只发射一个单个布尔值的 Observable,如果原始 Observable 正常终止并且每一项数据都满足条件,就返回 true;如果原始 Observable 的任意一项数据不满足条件就返回 False。



UniRx WhenAll 在知识地图中的位置



UniRx WhenAll 示例代码

```
* http://sikiedu.com liangxie
using System.Collections;
using UniRx;
using UnityEngine;
namespace UniRxLesson
   public class UniRxWhenAllExample : MonoBehaviour
    {
        IEnumerator A()
            yield return new WaitForSeconds(1.0f);
            Debug.Log("A");
       IEnumerator B()
            yield return new WaitForSeconds(1.0f);
            Debug.Log("B");
       }
        IEnumerator C()
            yield return new WaitForSeconds(1.0f);
            Debug.Log("C");
        private void Start()
           var streamA = Observable.FromCoroutine(A);
           var streamB = Observable.FromCoroutine(B);
           var streamC = Observable.FromCoroutine(C);
            Observable.WhenAll(streamA, streamB, streamC)
                .Subscribe(_ => { Debug.Log("Completed"); });
       }
   }
}
输出结果为(A、B、C 输出顺序不一定):
В
С
Completed
```

今天的内容就这些