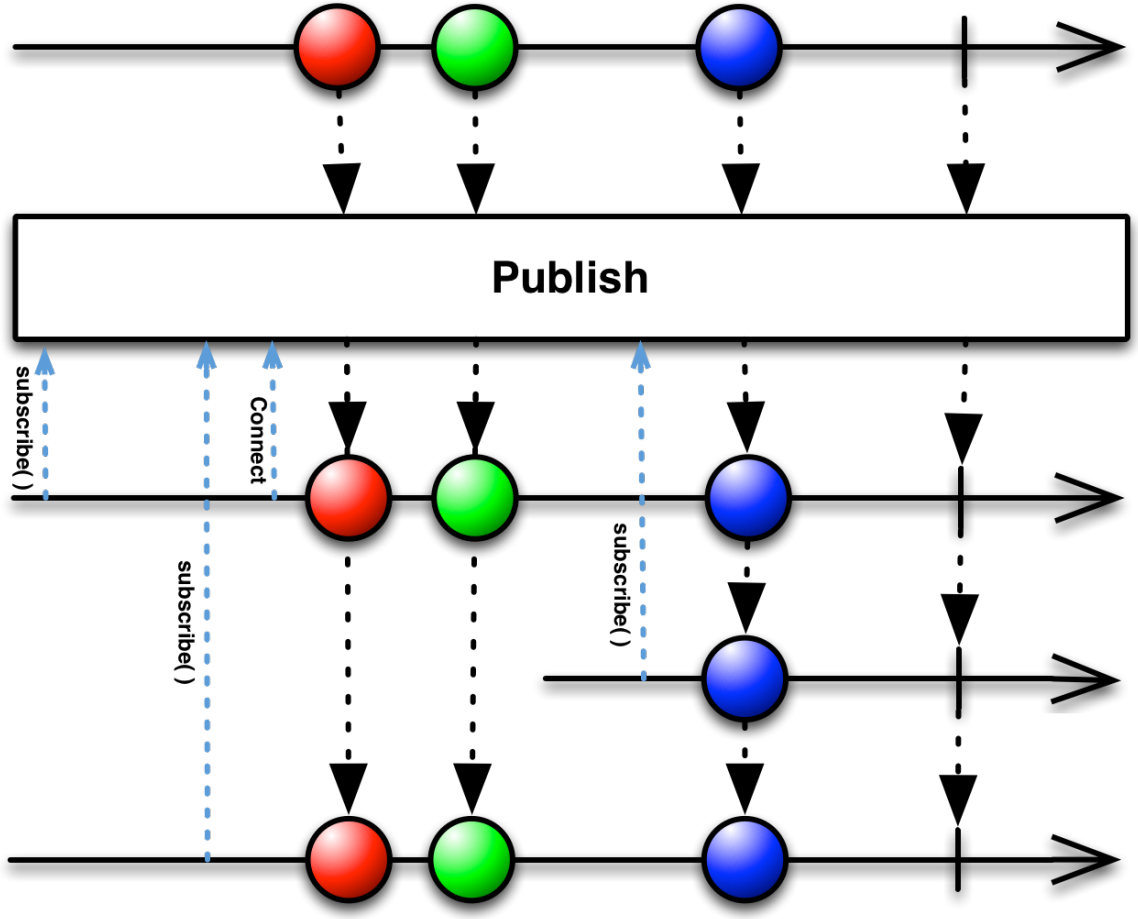
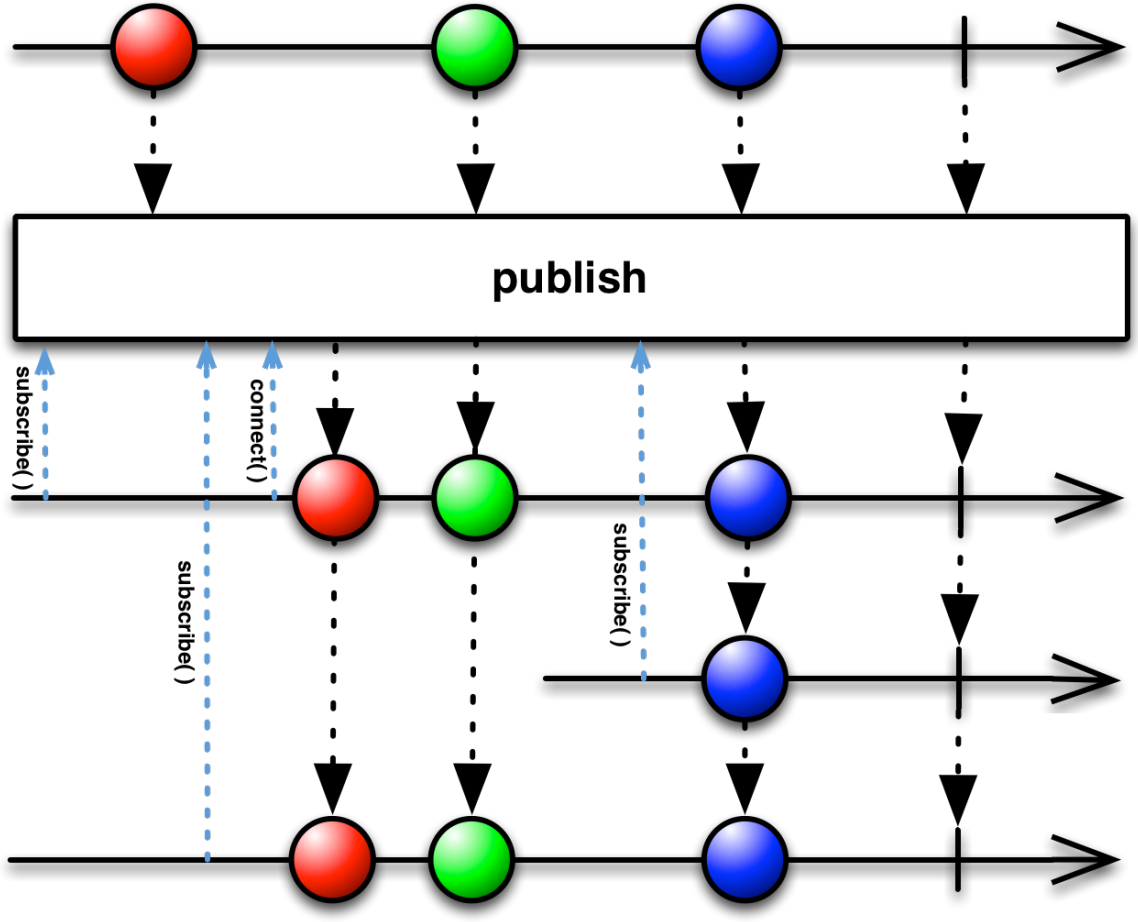
29.Publish

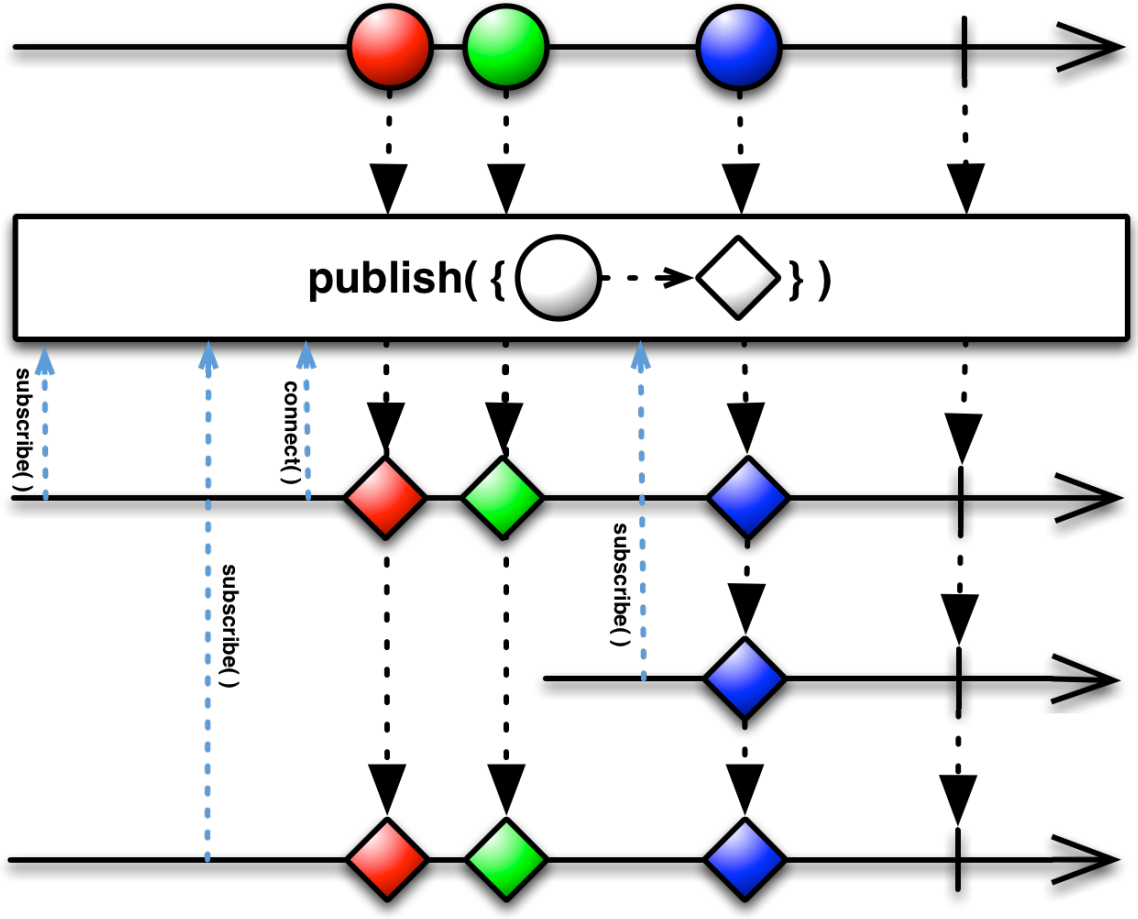
Publish 示意图

将普通的 Observable 转换为可连接的 Observable


Publish
subscribe( )
Connect
subscribe( )
subscribe( )

可连接的 Observable (*connectable Observable*)与普通的 Observable 差不多，不过它并不会在被订阅时开始发射数据，而是直到使用了`Connect`操作符时才会开始。用这种方法，你可以在任何时候让一个 Observable 开始发射数据。


publish
subscribe( )
connect( )
subscribe( )
subscribe( )


publish({ })
subscribe( )
connect( )
subscribe( )
subscribe( )

有一个变体接受一个函数作为参数。这个函数用原始Observable发射的数据作为参数，产生一个新的数据作为ConnectableObservable给发射，替换原位置的数据项。实质是在签名的基础上添加一个Select操作。

Publish 所在知识地图中的位置


UniRx
Creation:创建
Concurrency:并发
Time:时间
Unity
Common:常用
Paging:分页
Concatenate:联合
Convertions:转换
Aggregate:聚合
Events:事件
FromEvent
FromEventPatter

Publish 代码示例

```
/*************************************************************************
 * http://sikiedu.com liangxie
 *************************************************************************/

using System;
using UniRx;
using UnityEngine;

namespace UniRxLesson
{
      public class UniRxPublishExample : MonoBehaviour
      {
            void Start()
            {
                  var unshared = Observable.Range(1, 4);
```

```
                // Each subscription starts a new sequence
                unshared.Subscribe(i => Debug.Log("Unshared Subscription #1: " + i));
                unshared.Subscribe(i => Debug.Log("Unshared Subscription #2: " + i));

                // By using publish the subscriptions are shared, but the sequence doesn't
start until Connect() is called.
                var shared = unshared.Publish();
                shared.Subscribe(i => Debug.Log("Shared Subscription #1: " + i));
                shared.Subscribe(i => Debug.Log("Shared Subscription #2: " + i));
                shared.Connect();
            }
        }
}
```

输出结果为:

```
Unshared Subscription #1: 1
Unshared Subscription #1: 2
Unshared Subscription #1: 3
```

```
Unshared Subscription #1: 4
Unshared Subscription #2: 1
Unshared Subscription #2: 2
Unshared Subscription #2: 3
Unshared Subscription #2: 4
Shared Subscription #1: 1
Shared Subscription #2: 1
Shared Subscription #1: 2
Shared Subscription #2: 2
Shared Subscription #1: 3
Shared Subscription #2: 3
Shared Subscription #1: 4
Shared Subscription #2: 4
```