

Foundation Messenger

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The Messenger is a static application service for relaying events (messages) in a loosely coupled way. Any object may be "Published" through the messenger and handled by methods (or coroutines) through the app.

- Support for objects, structs, enums and interfaces
- Support for caching. This allows for publishing then subscribing and then receiving a message in that order. This is useful for one time messages like authentication.
- Use the IMessengerObject interface to add a Publish() extension method to your message.
- Supports [Subscribe] annotation. Using this annotation unlocks the Subscribe(object) helper method. This helper method allows for the subscribe of all decorated methods automatically.
- Support for coroutines event handling.

Platforms

Desktop, Webplayer, iOS, Android, Windows Store

Setup

Make sure the files exist in your project.

Use

Subscribing

Subscribing is the wiring of methods to the messenger. Methods must take a single argument of the message type they are handling. When a message of the appropriate type is published the method will be called.

```
public class MyHandler: MonoBehaviour
{
    void Awake()
    {
        // Subscribe using the [Subscribe] annotation
    }
}
```

```

    Messenger.Subscribe(this);

    // Subscribe manually
    Messenger<MessageType>.Subscribe(MyHandler);

    // Subscribe manually
    Messenger<MessageType>.SubscribeCortoutine(MyCoroutineHandler);
}

void OnDestroy()
{
    // Unsubscribe using the [Subscribe] annotation
    Messenger.Unsubscribe(this);

    // Unsubscribe manually
    Messenger<MessageType>.Unsubscribe(MyHandler);

    // Unsubscribe manually
    Messenger<MessageType>.UnsubscribeCortoutine(MyCoroutineHandler);
}

[Subscribe]
public void MyHandler(MessageType arg);

[Subscribe]
public IEnumerator MyCoroutineHandler(MessageType arg);
}

```

Publishing

Publishing is the sending a message to subscribed members.

```

public class MyPublisher: MonoBehaviour
{
    void Awake()
    {
        var message = new MessageType();

        // publish using the IMessengerObject Extension Method
        message.Publish();

        // publish Manually
        Messenger.Publish(message);
    }
}

```

Caching

Messages may be cached. When cached the message will be saved and issued to late subscribers.

```

// Cache the message
[CachedMessage]

// or

// Cache the message and clear the cache of old messages of the same type
[CachedMessage(OnePerType=true)]

public class MessageType : IMessengerObject
{

```

