

Namespace Libs.TLV

Classes

[TlvObject](#)

Represents a node in a parsed TLV (Tag-Length-Value) structure. Provides access to nested TLV elements via an indexer and exposes the value of a primitive TLV element as a hexadecimal string.

[TlvParser](#)

[TreePrinter](#)

Provides functionality to generate an ASCII-art representation of a tree stored in a nested Dictionary<string, object> structure.

Class TlvObject


Namespace: [Libs.TLV](#)

Assembly: NfcTerminal.dll








Represents a node in a parsed TLV (Tag-Length-Value) structure. Provides access to nested TLV elements via an indexer and exposes the value of a primitive TLV element as a hexadecimal string.

```
public class TlvObject
```

Inheritance

[object](#)  ← TlvObject

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#) 

Constructors


TlvObject(Dictionary<string, object>)

Initializes a new instance of the [TlvObject](#) class that wraps a constructed TLV node (with child elements).

```
public TlvObject(Dictionary<string, object> source)
```

Parameters

source [Dictionary](#)  <[string](#) , [object](#)  >

A [Dictionary<TKey, TValue>](#)  containing the nested TLV structure. Each key is a tag name (or raw tag hex), and each value is either a string (primitive hex value) or another dictionary for further nesting.

Properties

IsEmpty

```
public bool IsEmpty { get; }
```

Property Value

[bool](#)

this[string]

Indexer to access a child TLV element by its tag name.

```
public TlvObject this[string index] { get; }
```

Parameters

index [string](#)

The tag name (or raw tag hex) of the desired child element.

Property Value

[TlvObject](#)

A [TlvObject](#) representing the nested TLV element: • If the specified tag does not exist, an empty [TlvObject](#) is returned. • If the specified tag is a primitive element, the returned object's [Value](#) property contains that element's hex string. • If the specified tag is constructed (has children), the returned object wraps the nested dictionary of child elements.

Source

```
public Dictionary<string, object> Source { get; }
```

Property Value

[Dictionary](#) <[string](#), [object](#)>

Value

Gets the primitive value of this TLV object as a hexadecimal string. If the instance represents a constructed node (i.e., has children), this property will be `null`.

```
public string Value { get; }
```

Property Value

[string](#) 

Class TlvParser

Namespace: [Libs.TLV](#)








Assembly: NfcTerminal.dll

```
public static class TlvParser
```

Inheritance

[object](#)  ← TlvParser

Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  , [object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

Fields

TagNames

Maps hex tag key to it name

```
public static Dictionary<string, string> TagNames
```

Field Value

[Dictionary](#)  <[string](#) , [string](#)  >

Methods

HexStringToBytes(string)

Converts a hexadecimal string into a byte array. Removes any whitespace characters (spaces, tabs, newlines) and dashes ('-') before parsing.

```
public static byte[] HexStringToBytes(string hex)
```

Parameters

hex [string](#)

A string of hexadecimal characters (must have even length after cleaning). Examples of valid inputs: • "9F020600000000100" • "9F02 06 00000000100" • "9F02-06-00000000-0100"

Returns

[byte](#) []

A byte array where each pair of hex characters is parsed into one byte.

Exceptions

[ArgumentNullException](#)

Thrown if `hex` is `null`.

[FormatException](#)

Thrown if the cleaned hex string has an odd length (cannot form complete bytes), or if any two-character chunk is not a valid hex byte (e.g. contains non-hex characters).

Parse(byte[])

Parses a raw byte array containing TLV-encoded data into a nested Dictionary<string, object>.

```
public static Dictionary<string, object> Parse(byte[] data)
```

Parameters

data [byte](#) []

A byte array where each element represents one byte of TLV-encoded data. This method starts at index 0 and attempts to consume the entire array as TLV.

Returns

[Dictionary](#) <[string](#), [object](#)>

A Dictionary where each key is the tag name (or raw tag hex if no friendly name exists) and each value is either: • A nested Dictionary<string, object> for constructed (sub-TLV) tags, or • A string (hex-encoded) for primitive tag values.

Parse(string)

Parses a hexadecimal-encoded TLV string into a nested Dictionary<string, object>. Internally, the method:

1. Cleans the input string of whitespace and hyphens.
2. Converts every two hex characters into one byte.
3. Invokes [ParseTlv\(byte\[\], ref int, int\)](#) on the resulting byte array.

```
public static Dictionary<string, object> Parse(string hexTlv)
```

Parameters

hexTlv [string](#)

A string containing TLV data represented as hexadecimal characters. It may include spaces, tabs, newlines, or dashes ("-") between bytes, all of which will be ignored. Example: "9F02 06 000000000100" or "9F02-06000000000100".

Returns

[Dictionary](#) <[string](#), [object](#)>

A Dictionary mapping each tag name (or raw tag hex if no friendly name exists) to: • a nested [Dictionary<TKey, TValue>](#) for constructed (sub-TLV) tags, or • a [string](#) (hex-encoded) for primitive tag values.

Exceptions

[FormatException](#)

Thrown if the cleaned hex string has an odd length (cannot form complete bytes), or if any two-character chunk is not a valid hex byte. Any FormatException thrown by [HexStringToBytes\(string\)](#) bubbles up here.

ParseTlv(byte[], ref int, int)

Parses a TLV (Tag-Length-Value) buffer beginning at index **i** and ending at **limit**. If a tag is "constructed" (bit-5 of the first tag byte is set), its value is interpreted as a nested TLV sequence. Otherwise, the value is returned as a hexadecimal string.

```
public static Dictionary<string, object> ParseTlv(byte[] buf, ref int i, int limit)
```

Parameters

buf [byte\[\]](#)

The complete TLV-encoded byte array.

i [int](#)

Reference to the current read index in **buf**. On return, **i** will point immediately past the last byte consumed for this TLV block.

limit [int](#)

The exclusive upper bound inside **buf** up to which parsing is valid. Must be between 0 and **buf.Length**.

Returns

[Dictionary](#) <[string](#), [object](#)>

A Dictionary mapping tag names (or raw tag hex strings if not found in TagNames) to either:

- string – for primitive (non-constructed) tag values, encoded as a hex string without “-” separators
- Dictionary<string,object> – for constructed tags, representing a nested TLV subtree.

Exceptions

[ArgumentOutOfRangeException](#)

Thrown if **i** or **limit** are outside the valid range of **buf**.

[FormatException](#)

Thrown whenever the TLV structure is invalid. Examples:

- Unexpected end of buffer while reading a tag or length
- Invalid length (negative or exceeding available bytes)
- Any error thrown by ReadTag or ReadLength is wrapped in a FormatException with context.

ToJson(Dictionary<string, object>)

Serializes a nested Dictionary<string, object> (as produced by Parse or ParseTlv) into a prettified JSON string with indentation.


```
public static string ToJson(Dictionary<string, object> dict)
```

Parameters

dict [Dictionary](#) <[string](#), [object](#)>

The Dictionary<string, object> to serialize. Each value may itself be another Dictionary<string, object> or a primitive string. The serializer will automatically recurse into nested dictionaries.

Returns

[string](#)

A JSON-formatted string with indented formatting, making the structure human-readable. Example output: { "TagName1": "A1B2C3", "TagName2": { "SubTag1": "00FF" } }

Class TreePrinter

Namespace: [Libs.TLV](#)

Assembly: NfcTerminal.dll

Provides functionality to generate an ASCII-art representation of a tree stored in a nested Dictionary<string, object> structure.

```
public static class TreePrinter
```

Inheritance

[object](#) ← TreePrinter

Inherited Members

[object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.GetType\(\)](#), [object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

Methods

GenerateTreeString(Dictionary<string, object>)

Generates a string containing an ASCII-art diagram of the tree.

```
public static string GenerateTreeString(Dictionary<string, object> tree)
```

Parameters

tree [Dictionary](#) <[string](#), [object](#)>

A Dictionary<string, object> where each key is a node label. If the associated value is a string, it is treated as a leaf ("key: value"). If the value is another Dictionary<string, object>, it represents an internal node whose children will be rendered recursively.

Returns

[string](#)

A multi-line string, using connectors ("├", "└") and indent-prefixes ("| " or spaces) to visualize the hierarchy.

Namespace Lin

Classes

[LinInterpreter](#)

A very small expression-language interpreter featuring variables, arithmetic/bitwise operators, user-defined functions and simple control flow constructs (`if`, `for`, `return`).

Class LinInterpreter


Namespace: [Lin](#)

Assembly: NfcTerminal.dll








A very small expression-language interpreter featuring variables, arithmetic/bitwise operators, user-defined functions and simple control flow constructs (**if**, **for**, **return**).

```
public class LinInterpreter
```

Inheritance

[object](#)  ← LinInterpreter

Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  , [object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

Properties

this[string]

Read-only accessor for a variable. Returns **null** when not defined.

```
public object this[string varName] { get; }
```

Parameters

varName [string](#) 

Property Value

[object](#) 

Methods

Execute(string)

Executes a single line or a multi-line compound statement. An expression returns its value; assignments return the assigned value; statements that do not produce a value return `null`.

```
public object Execute(string line)
```

Parameters

`line` [string](#)

A line read from the REPL.

Returns

[object](#)

The result of the executed line or `null`.

SetFunction(string, Func<List<object>, object>)

Set or add, build-in function to language

```
public void SetFunction(string name, Func<List<object>, object> function)
```

Parameters

`name` [string](#)

name of build in function

`function` [Func](#) <[List](#) <[object](#)>, [object](#)>

function itself

Namespace NfcDemo

Classes

[Apu](#)

[App](#)

[AppDelegate](#)

[AppShell](#)

[LinScriptPage](#)

A page that allows users to write and execute LIN scripts, displaying output and interacting with NFC tags.

[LinTerminalPage](#)

[MauiProgram](#)

[MessageOptions](#)

Represents a set of context-specific options presented to the user via an action sheet.

[Program](#)

[TLVPage](#)

Page that parses a TLV-encoded hex string, displays its tree representation, and allows copying the tree or JSON representation to the clipboard.

[TerminalPage](#)

Class Adu

Namespace: [NfcDemo](#)








Assembly: NfcTerminal.dll

```
public static class Adu
```

Inheritance

[object](#)  ← Adu

Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  , [object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

Methods

SelectByAid(byte[], byte, byte, byte, byte)

```
public static byte[] SelectByAid(byte[] aid, byte _class = 0, byte _inst = 0, byte _p1 = 0, byte _p2 = 0)
```

Parameters

aid [byte](#)  []

_class [byte](#) 

_inst [byte](#) 

_p1 [byte](#) 

_p2 [byte](#) 

Returns

[byte](#)  []

SplitResponse(byte[])

Extract form response status code and data

```
public static (byte[] Data, ushort SW) SplitResponse(byte[] resp)
```

Parameters

resp [byte\[\]](#)

Returns

([byte\[\]](#) Data, [ushort](#) SW)

Exceptions

[ArgumentException](#)

Class App

Namespace: [NfcDemo](#)

Assembly: NfcTerminal.dll

```
[XamlFilePath("App.xaml")]  
public class App : Application, INotifyPropertyChanged, IElementController,  
IEffectControlProvider, IToolTipElement, IContextFlyoutElement, IApplicationController,  
IElementConfiguration<Application>, IVisualTreeElement, IApplication, IElement
```

Inheritance

[object](#) ← [BindableObject](#) ← [Element](#) ← [Application](#) ← App

Implements

[INotifyPropertyChanged](#), [IElementController](#), [IEffectControlProvider](#), [IToolTipElement](#),
[IContextFlyoutElement](#), [IApplicationController](#), [IElementConfiguration](#) <[Application](#)> ,
[IVisualTreeElement](#), [IApplication](#), [IElement](#)

Inherited Members

[Application.ControlsApplicationMapper](#), [Application.Quit\(\)](#), [Application.SavePropertiesAsync\(\)](#),
[Application.On<T>\(\)](#), [Application.OnAppLinkRequestReceived\(Uri\)](#), [Application.OnParentSet\(\)](#),
[Application.OnResume\(\)](#), [Application.OnSleep\(\)](#), [Application.OnStart\(\)](#), [Application.CleanUp\(\)](#),
[Application.OpenWindow\(Window\)](#), [Application.CloseWindow\(Window\)](#),
[Application.CreateWindow\(IActivationState\)](#), [Application.AppLinks](#), [Application.Current](#),
[Application.MainPage](#), [Application.Properties](#), [Application.Resources](#),
[Application.UserAppTheme](#), [Application.PlatformAppTheme](#), [Application.RequestedTheme](#),
[Application.AccentColor](#), [Application.Windows](#), [Application.RequestedThemeChanged](#),
[Application.ModalPopped](#), [Application.ModalPopping](#), [Application.ModalPushed](#),
[Application.ModalPushing](#), [Application.PageAppearing](#), [Application.PageDisappearing](#),
[Element.AutomationIdProperty](#), [Element.ClassIdProperty](#), [Element.ControlsElementMapper](#),
[Element.FindByName\(string\)](#), [Element.RemoveDynamicResource\(BindableProperty\)](#),
[Element.SetDynamicResource\(BindableProperty, string\)](#), [Element.OnBindingContextChanged\(\)](#),
[Element.OnChildAdded\(Element\)](#), [Element.OnChildRemoved\(Element, int\)](#),
[Element.OnPropertyChanged\(string\)](#), [Element.OnParentChanging\(ParentChangingEventArgs\)](#),
[Element.OnParentChanged\(\)](#), [Element.OnHandlerChanging\(HandlerChangingEventArgs\)](#),
[Element.OnHandlerChanged\(\)](#),
[Element.MapAutomationPropertiesIsInAccessibleTree\(IElementHandler, Element\)](#),
[Element.MapAutomationPropertiesExcludedWithChildren\(IElementHandler, Element\)](#),
[Element.AutomationId](#), [Element.ClassId](#), [Element.Effects](#), [Element.Id](#), [Element.StyleId](#),
[Element.Parent](#), [Element.Handler](#), [Element.ChildAdded](#), [Element.ChildRemoved](#),

[Element.DescendantAdded](#) , [Element.DescendantRemoved](#) , [Element.ParentChanging](#) ,
[Element.ParentChanged](#) , [Element.HandlerChanging](#) , [Element.HandlerChanged](#) ,
[BindableObject.BindingContextProperty](#) , [BindableObject.ClearValue\(BindableProperty\)](#) ,
[BindableObject.ClearValue\(BindablePropertyKey\)](#) , [BindableObject.GetValue\(BindableProperty\)](#) ,
[BindableObject.IsSet\(BindableProperty\)](#) , [BindableObject.RemoveBinding\(BindableProperty\)](#) ,
[BindableObject.SetBinding\(BindableProperty, BindingBase\)](#) , [BindableObject.ApplyBindings\(\)](#) ,
[BindableObject.OnPropertyChanging\(string\)](#) , [BindableObject.UnapplyBindings\(\)](#) ,
[BindableObject.SetValue\(BindableProperty, object\)](#) ,
[BindableObject.SetValue\(BindablePropertyKey, object\)](#) ,
[BindableObject.CoerceValue\(BindableProperty\)](#) , [BindableObject.CoerceValue\(BindablePropertyKey\)](#) ,
[BindableObject.Dispatcher](#) , [BindableObject.BindingContext](#) , [BindableObject.PropertyChanged](#) ,
[BindableObject.PropertyChanging](#) , [BindableObject.BindingContextChanged](#) ,
[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

App()

```
public App()
```

Class AppDelegate

Namespace: [NfcDemo](#)

Assembly: NfcTerminal.dll

```
[Register("AppDelegate")]  
public class AppDelegate : MauiUIApplicationDelegate, IEquatable<NSObject>,   
    INSOBJectProtocol, IUIActivityItemsConfigurationProviding, IUIPasteConfigurationSupporting,   
    IUIResponderStandardEditActions, IUIUserActivityRestoring, IUIAppDelegate,   
    INativeObject, IDisposable, IPlatformApplication
```

Inheritance

[object](#) < NSObject < UIResponder < [MauiUIApplicationDelegate](#) < AppDelegate

Implements

[IEquatable](#) < NSObject>, INSOBJectProtocol, IUIActivityItemsConfigurationProviding, IUIPasteConfigurationSupporting, IUIResponderStandardEditActions, IUIUserActivityRestoring, IUIAppDelegate, INativeObject, [IDisposable](#), [IPlatformApplication](#)

Inherited Members

[MauiUIApplicationDelegate.WillFinishLaunching\(UIApplication, NSDictionary\)](#),
[MauiUIApplicationDelegate.FinishedLaunching\(UIApplication, NSDictionary\)](#),
[MauiUIApplicationDelegate.RespondsToSelector\(Selector\)](#),
[MauiUIApplicationDelegate.GetConfiguration\(UIApplication, UISceneSession, UISceneConnectionOptions\)](#),
[MauiUIApplicationDelegate.PerformActionForShortcutItem\(UIApplication, UIApplicationShortcutItem, UIOperationHandler\)](#),
[MauiUIApplicationDelegate.OpenUrl\(UIApplication, NSURL, NSDictionary\)](#),
[MauiUIApplicationDelegate.ContinueUserActivity\(UIApplication, NSUserActivity, UIApplicationRestorationHandler\)](#),
[MauiUIApplicationDelegate.OnActivated\(UIApplication\)](#),
[MauiUIApplicationDelegate.OnResignActivation\(UIApplication\)](#),
[MauiUIApplicationDelegate.WillTerminate\(UIApplication\)](#),
[MauiUIApplicationDelegate.DidEnterBackground\(UIApplication\)](#),
[MauiUIApplicationDelegate.WillEnterForeground\(UIApplication\)](#),
[MauiUIApplicationDelegate.ApplicationSignificantTimeChange\(UIApplication\)](#),
[MauiUIApplicationDelegate.BuildMenu\(UIMenuBuilder\)](#),
[MauiUIApplicationDelegate.CanPerform\(Selector, NSObject\)](#), [MauiUIApplicationDelegate.Current](#),
[MauiUIApplicationDelegate.Window](#), [MauiUIApplicationDelegate.Services](#),
[MauiUIApplicationDelegate.Application](#), UIResponder.AccessibilityDecrement(),

UIResponder.AccessibilityElementDidBecomeFocused() ,
UIResponder.AccessibilityElementDidLoseFocus() , UIResponder.AccessibilityElementIsFocused() ,
UIResponder.AccessibilityIncrement() , UIResponder.AccessibilityPerformEscape() ,
UIResponder.AccessibilityPerformMagicTap() ,
UIResponder.AccessibilityScroll(UIAccessibilityScrollDirection) , UIResponder.BecomeFirstResponder() ,
UIResponder.CanPaste(NSItemProvider[]) , UIResponder.CaptureTextFromCamera(NSObject) ,
UIResponder.ClearTextInputContextIdentifier(NSString) , UIResponder.Copy(NSObject) ,
UIResponder.Cut(NSObject) , UIResponder.DecreaseSize(NSObject) , UIResponder.Delete(NSObject) ,
UIResponder.Duplicate(NSObject) , UIResponder.Export(NSObject) , UIResponder.Find(NSObject) ,
UIResponder.FindAndReplace(NSObject) , UIResponder.FindNext(NSObject) ,
UIResponder.FindPrevious(NSObject) , UIResponder.GetTargetForAction(Selector, NSObject) ,
UIResponder.IncreaseSize(NSObject) , UIResponder.MakeTextWritingDirectionLeftToRight(NSObject) ,
UIResponder.MakeTextWritingDirectionRightToLeft(NSObject) ,
UIResponder.MotionBegan(UIEventSubtype, UIEvent) ,
UIResponder.MotionCancelled(UIEventSubtype, UIEvent) ,
UIResponder.MotionEnded(UIEventSubtype, UIEvent) , UIResponder.Move(NSObject) ,
UIResponder.Paste(NSObject) , UIResponder.Paste(NSItemProvider[]) ,
UIResponder.PasteAndGo(NSObject) , UIResponder.PasteAndMatchStyle(NSObject) ,
UIResponder.PasteAndSearch(NSObject) , UIResponder.PressesBegan(NSSet<UIPress>, UIPressesEvent) ,
UIResponder.PressesCancelled(NSSet<UIPress>, UIPressesEvent) ,
UIResponder.PressesChanged(NSSet<UIPress>, UIPressesEvent) ,
UIResponder.PressesEnded(NSSet<UIPress>, UIPressesEvent) , UIResponder.Print(NSObject) ,
UIResponder.ReloadInputViews() , UIResponder.RemoteControlReceived(UIEvent) ,
UIResponder.Rename(NSObject) , UIResponder.ResignFirstResponder() ,
UIResponder.RestoreUserActivityState(NSUserActivity) , UIResponder.Select(NSObject) ,
UIResponder.SelectAll(NSObject) , UIResponder.ToggleBoldface(NSObject) ,
UIResponder.ToggleItalics(NSObject) , UIResponder.ToggleUnderline(NSObject) ,
UIResponder.TouchesBegan(NSSet, UIEvent) , UIResponder.TouchesCancelled(NSSet, UIEvent) ,
UIResponder.TouchesEnded(NSSet, UIEvent) , UIResponder.TouchesEstimatedPropertiesUpdated(NSSet) ,
UIResponder.TouchesMoved(NSSet, UIEvent) ,
UIResponder.UpdateTextAttributes(UITextAttributesConversionHandler) ,
UIResponder.UpdateUserActivityState(NSUserActivity) , UIResponder.UseSelectionForFind(NSObject) ,
UIResponder.ValidateCommand(UICommand) , UIResponder.ClassHandle ,
UIResponder.AccessibilityAssistiveTechnologyFocusedIdentifiers ,
UIResponder.AccessibilityCustomActions , UIResponder.AccessibilityDragSourceDescriptors ,
UIResponder.AccessibilityDropPointDescriptors , UIResponder.ActivityItemsConfiguration ,
UIResponder.CanBecomeFirstResponder , UIResponder.CanResignFirstResponder ,
UIResponder.EditingInteractionConfiguration , UIResponder.InputAccessoryView ,
UIResponder.InputAccessoryViewController , UIResponder.InputAssistantItem , UIResponder.InputView ,
UIResponder.InputViewController , UIResponder.IsFirstResponder , UIResponder.KeyCommands ,

UIResponder.NextResponder , UIResponder.PasteConfiguration ,
UIResponder.TextInputContextIdentifier , UIResponder.TextInputMode , UIResponder.UndoManager ,
UIResponder.UserActivity , NSObject.PlatformAssembly , NSObject.Dispose() , NSObject.MarkDirty() ,
NSObject.ConformsToProtocol(NativeHandle) , NSObject.DangerousRelease() ,
NSObject.DangerousRetain() , NSObject.DangerousAutorelease() ,
NSObject.BeginInvokeOnMainThread(Selector, NSObject) ,
NSObject.InvokeOnMainThread(Selector, NSObject) , [NSObject.BeginInvokeOnMainThread\(Action\)](#) ,
[NSObject.InvokeOnMainThread\(Action\)](#) , [NSObject.FromObject\(object\)](#) ,
NSObject.SetValueForKeyPath(NativeHandle, NSString) , NSObject.GetHashCode() ,
[NSObject.Equals\(object\)](#) , NSObject.Equals(NSObject) , NSObject.ToString() ,
[NSObject.Invoke\(Action, double\)](#) , [NSObject.Invoke\(Action, TimeSpan\)](#) , [NSObject.Dispose\(bool\)](#) ,
[NSObject.AddObserver\(string, NSKeyValueObservingOptions, Action<NSObservedChange>\)](#) ,
[NSObject.AddObserver\(NSString, NSKeyValueObservingOptions, Action<NSObservedChange>\)](#) ,
NSObject.Alloc(Class) , NSObject.Init() , [NSObject.InvokeInBackground\(Action\)](#) ,
[NSObject.AddObserver\(NSObject, NSString, NSKeyValueObservingOptions, nint\)](#) ,
[NSObject.AddObserver\(NSObject, string, NSKeyValueObservingOptions, nint\)](#) ,
[NSObject.AutomaticallyNotifiesObserversForKey\(string\)](#) , NSObject.AwakeFromNib() ,
NSObject.CancelPreviousPerformRequest(NSObject) ,
NSObject.CancelPreviousPerformRequest(NSObject, Selector, NSObject) , NSObject.Copy() ,
NSObject.DidChange(NSKeyValueChange, NSIndexSet, NSString) ,
NSObject.DidChange(NSString, NSKeyValueSetMutationKind, NSSet) ,
[NSObject.DidChangeValue\(string\)](#) , NSObject.DoesNotRecognizeSelector(Selector) ,
NSObject.GetDictionaryOfValuesFromKeys(NSString[]) ,
NSObject.GetKeyPathsForValuesAffecting(NSString) , NSObject.GetMethodForSelector(Selector) ,
NSObject.GetNativeHash() , NSObject.IsEqual(NSObject) , NSObject.IsKindOfClass(Class) ,
NSObject.IsMemberOfClass(Class) , NSObject.MutableCopy() ,
[NSObject.ObserveValue\(NSString, NSObject, NSDictionary, nint\)](#) ,
[NSObject.PerformSelector\(Selector, NSObject, double, NSString\[\]\)](#) ,
[NSObject.PerformSelector\(Selector, NSObject, double\)](#) ,
[NSObject.PerformSelector\(Selector, NSThread, NSObject, bool\)](#) ,
[NSObject.PerformSelector\(Selector, NSThread, NSObject, bool, NSString\[\]\)](#) ,
NSObject.PerformSelector(Selector) , NSObject.PerformSelector(Selector, NSObject) ,
NSObject.PerformSelector(Selector, NSObject, NSObject) , NSObject.PrepareForInterfaceBuilder() ,
[NSObject.RemoveObserver\(NSObject, NSString, nint\)](#) ,
[NSObject.RemoveObserver\(NSObject, string, nint\)](#) , NSObject.RemoveObserver(NSObject, NSString) ,
[NSObject.RemoveObserver\(NSObject, string\)](#) , NSObject.SetNilValueForKey(NSString) ,
NSObject.SetValueForKey(NSObject, NSString) , NSObject.SetValueForKeyPath(NSObject, NSString) ,
NSObject.SetValueForUndefinedKey(NSObject, NSString) ,
NSObject.SetValuesForKeysWithDictionary(NSDictionary) , NSObject.ValueForKey(NSString) ,
NSObject.ValueForKeyPath(NSString) , NSObject.ValueForUndefinedKey(NSString) ,

NSObject.WillChange(NSKeyValueChange, NSIndexSet, NSString) ,
NSObject.WillChange(NSString, NSKeyValueSetMutationKind, NSSet) ,
[NSObject.WillChangeValue\(string\)](#) , NSObject.IsDirectBinding , NSObject.SuperHandle ,
NSObject.Handle , NSObject.AccessibilityAttributedUserInputLabels ,
NSObject.AccessibilityRespondsToUserInteraction , NSObject.AccessibilityTextualContext ,
NSObject.AccessibilityUserInputLabels , NSObject.Class , NSObject.DebugDescription ,
NSObject.Description , NSObject.IsProxy , NSObject.RetainCount , NSObject.Self , NSObject.Superclass ,
NSObject.Zone , NSObject.ChangeIndexesKey , NSObject.ChangeKindKey , NSObject.ChangeNewKey ,
NSObject.ChangeNotificationIsPriorKey , NSObject.ChangeOldKey , [object.Equals\(object, object\)](#) ,
[object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#)

Methods

CreateMauiApp()

When overridden in a derived class, creates the [MauiApp](#) to be used in this application. Typically a [MauiApp](#) is created by calling [CreateBuilder\(bool\)](#), configuring the returned [MauiAppBuilder](#), and returning the built app by calling [Build\(\)](#).

```
protected override MauiApp CreateMauiApp()
```

Returns

[MauiApp](#)

The built [MauiApp](#).

Class AppShell

Namespace: [NfcDemo](#)

Assembly: NfcTerminal.dll

```
[XamlFilePath("AppShell.xaml")]  
public class AppShell : Shell, INotifyPropertyChanged, IVisualTreeElement,  
IEffectControlProvider, IToolTipElement, IContextFlyoutElement, IAnimatable, ITitledElement,  
IToolbarElement, ILayout, IElementConfiguration<Page>, ISafeAreaView, IFlyoutView, IView,  
IElement, ITransform, IShellController, IPageController, IVisualElementController,  
IElementController, IPageContainer<Page>
```

Inheritance

[object](#) ← [BindableObject](#) ← [Element](#) ← [NavigableElement](#) ← [VisualElement](#) ← [Page](#) ← [Shell](#) ← [AppShell](#)

Implements

[INotifyPropertyChanged](#), [IVisualTreeElement](#), [IEffectControlProvider](#), [IToolTipElement](#),
[IContextFlyoutElement](#), [IAnimatable](#), [ITitledElement](#), [IToolbarElement](#), [ILayout](#),
[IElementConfiguration](#) <[Page](#)>, [ISafeAreaView](#), [IFlyoutView](#), [IView](#), [IElement](#), [ITransform](#),
[IShellController](#), [IPageController](#), [IVisualElementController](#), [IElementController](#),
[IPageContainer](#) <[Page](#)>

Inherited Members

[Shell.BackButtonBehaviorProperty](#), [Shell.PresentationModeProperty](#),
[Shell.FlyoutBehaviorProperty](#), [Shell.NavBarIsVisibleProperty](#), [Shell.NavBarHasShadowProperty](#),
[Shell.SearchHandlerProperty](#), [Shell.FlyoutItemsVisibleProperty](#), [Shell.TabBarIsVisibleProperty](#),
[Shell.TitleViewProperty](#), [Shell.MenuItemTemplateProperty](#), [Shell.ItemTemplateProperty](#),
[Shell.BackgroundColorProperty](#), [Shell.DisabledColorProperty](#), [Shell.ForegroundColorProperty](#),
[Shell.TabBarBackgroundColorProperty](#), [Shell.TabBarDisabledColorProperty](#),
[Shell.TabBarForegroundColorProperty](#), [Shell.TabBarTitleColorProperty](#),
[Shell.TabBarUnselectedColorProperty](#), [Shell.TitleColorProperty](#), [Shell.UnselectedColorProperty](#),
[Shell.FlyoutBackdropProperty](#), [Shell.FlyoutWidthProperty](#), [Shell.FlyoutHeightProperty](#),
[Shell.CurrentItemProperty](#), [Shell.CurrentStateProperty](#), [Shell.FlyoutBackgroundImageProperty](#),
[Shell.FlyoutBackgroundImageAspectProperty](#), [Shell.FlyoutBackgroundColorProperty](#),
[Shell.FlyoutBackgroundProperty](#), [Shell.FlyoutHeaderBehaviorProperty](#),
[Shell.FlyoutHeaderProperty](#), [Shell.FlyoutFooterProperty](#), [Shell.FlyoutHeaderTemplateProperty](#),
[Shell.FlyoutFooterTemplateProperty](#), [Shell.FlyoutIsPresentedProperty](#), [Shell.ItemsProperty](#),
[Shell.FlyoutIconProperty](#), [Shell.FlyoutVerticalScrollModeProperty](#), [Shell.FlyoutContentProperty](#),
[Shell.FlyoutContentTemplateProperty](#), [Shell.OnPropertyChanged\(string\)](#),

[Shell.GetFlyoutItemsVisible\(BindableObject\)](#), [Shell.SetFlyoutItemsVisible\(BindableObject, bool\)](#),
[Shell.GetMenuItemTemplate\(BindableObject\)](#),
[Shell.SetMenuItemTemplate\(BindableObject, DataTemplate\)](#),
[Shell.GetItemTemplate\(BindableObject\)](#), [Shell.SetItemTemplate\(BindableObject, DataTemplate\)](#),
[Shell.GetBackButtonBehavior\(BindableObject\)](#),
[Shell.SetBackButtonBehavior\(BindableObject, BackButtonBehavior\)](#),
[Shell.GetPresentationMode\(BindableObject\)](#),
[Shell.SetPresentationMode\(BindableObject, PresentationMode\)](#),
[Shell.GetFlyoutBehavior\(BindableObject\)](#), [Shell.SetFlyoutBehavior\(BindableObject, FlyoutBehavior\)](#),
[Shell.GetFlyoutWidth\(BindableObject\)](#), [Shell.SetFlyoutWidth\(BindableObject, double\)](#),
[Shell.GetFlyoutHeight\(BindableObject\)](#), [Shell.SetFlyoutHeight\(BindableObject, double\)](#),
[Shell.GetNavBarIsVisible\(BindableObject\)](#), [Shell.SetNavBarIsVisible\(BindableObject, bool\)](#),
[Shell.GetNavBarHasShadow\(BindableObject\)](#), [Shell.SetNavBarHasShadow\(BindableObject, bool\)](#),
[Shell.GetSearchHandler\(BindableObject\)](#), [Shell.SetSearchHandler\(BindableObject, SearchHandler\)](#),
[Shell.GetTabBarsVisible\(BindableObject\)](#), [Shell.SetTabBarsVisible\(BindableObject, bool\)](#),
[Shell.GetTitleView\(BindableObject\)](#), [Shell.SetTitleView\(BindableObject, View\)](#),
[Shell.GetBackgroundColor\(BindableObject\)](#), [Shell.SetBackgroundColor\(BindableObject, Color\)](#),
[Shell.GetDisabledColor\(BindableObject\)](#), [Shell.SetDisabledColor\(BindableObject, Color\)](#),
[Shell.GetForegroundColor\(BindableObject\)](#), [Shell.SetForegroundColor\(BindableObject, Color\)](#),
[Shell.GetTabBarBackgroundColor\(BindableObject\)](#),
[Shell.SetTabBarBackgroundColor\(BindableObject, Color\)](#),
[Shell.GetTabBarDisabledColor\(BindableObject\)](#),
[Shell.SetTabBarDisabledColor\(BindableObject, Color\)](#),
[Shell.GetTabBarForegroundColor\(BindableObject\)](#),
[Shell.SetTabBarForegroundColor\(BindableObject, Color\)](#), [Shell.GetTabBarTitleColor\(BindableObject\)](#),
[Shell.SetTabBarTitleColor\(BindableObject, Color\)](#), [Shell.GetTabBarUnselectedColor\(BindableObject\)](#),
[Shell.SetTabBarUnselectedColor\(BindableObject, Color\)](#), [Shell.GetTitleColor\(BindableObject\)](#),
[Shell.SetTitleColor\(BindableObject, Color\)](#), [Shell.GetUnselectedColor\(BindableObject\)](#),
[Shell.SetUnselectedColor\(BindableObject, Color\)](#), [Shell.GetFlyoutBackdrop\(BindableObject\)](#),
[Shell.SetFlyoutBackdrop\(BindableObject, Brush\)](#), [Shell.GoToAsync\(ShellNavigationState\)](#),
[Shell.GoToAsync\(ShellNavigationState, bool\)](#),
[Shell.GoToAsync\(ShellNavigationState, IDictionary<string, object>\)](#),
[Shell.GoToAsync\(ShellNavigationState, bool, IDictionary<string, object>\)](#),
[Shell.AddLogicalChild\(Element\)](#), [Shell.RemoveLogicalChild\(Element\)](#),
[Shell.OnBindingContextChanged\(\)](#), [Shell.OnBackButtonPressed\(\)](#),
[Shell.OnNavigated\(ShellNavigatedEventArgs\)](#), [Shell.OnNavigating\(ShellNavigatingEventArgs\)](#),
[Shell.LayoutChildren\(double, double, double, double\)](#), [Shell.CurrentPage](#), [Shell.Current](#),
[Shell.FlyoutVerticalScrollMode](#), [Shell.FlyoutIcon](#), [Shell.CurrentItem](#), [Shell.CurrentState](#),
[Shell.FlyoutBackgroundImage](#), [Shell.FlyoutBackgroundImageAspect](#),
[Shell.FlyoutBackgroundColor](#), [Shell.FlyoutBackground](#), [Shell.FlyoutBackdrop](#), [Shell.FlyoutWidth](#),

[Shell.FlyoutHeight](#) , [Shell.FlyoutBehavior](#) , [Shell.FlyoutHeader](#) , [Shell.FlyoutFooter](#) ,
[Shell.FlyoutHeaderBehavior](#) , [Shell.FlyoutHeaderTemplate](#) , [Shell.FlyoutFooterTemplate](#) ,
[Shell.FlyoutIsPresented](#) , [Shell.Items](#) , [Shell.ItemTemplate](#) , [Shell.MenuItemTemplate](#) ,
[Shell.FlyoutItems](#) , [Shell.FlyoutContent](#) , [Shell.FlyoutContentTemplate](#) , [Shell.Navigated](#) ,
[Shell.Navigating](#) , [Page.BusySetSignalName](#) , [Page.AlertSignalName](#) , [Page.PromptSignalName](#) ,
[Page.ActionSheetSignalName](#) , [Page.BackgroundImageSourceProperty](#) , [Page.IsBusyProperty](#) ,
[Page.PaddingProperty](#) , [Page.TitleProperty](#) , [Page.IconImageSourceProperty](#) ,
[Page.OnNavigatedTo\(NavigatedToEventArgs\)](#) , [Page.OnNavigatingFrom\(NavigatingFromEventArgs\)](#) ,
[Page.OnNavigatedFrom\(NavigatedFromEventArgs\)](#) , [Page.GetParentWindow\(\)](#) ,
[Page.DisplayActionSheet\(string, string, string, params string\[\]\)](#) ,
[Page.DisplayActionSheet\(string, string, string, FlowDirection, params string\[\]\)](#) ,
[Page.DisplayAlert\(string, string, string\)](#) , [Page.DisplayAlert\(string, string, string, string\)](#) ,
[Page.DisplayAlert\(string, string, string, FlowDirection\)](#) ,
[Page.DisplayAlert\(string, string, string, string, FlowDirection\)](#) ,
[Page.DisplayPromptAsync\(string, string, string, string, string, int, Keyboard, string\)](#) ,
[Page.ForceLayout\(\)](#) , [Page.SendBackButtonPressed\(\)](#) , [Page.OnAppearing\(\)](#) ,
[Page.OnChildMeasureInvalidated\(object, EventArgs\)](#) , [Page.OnDisappearing\(\)](#) , [Page.OnParentSet\(\)](#) ,
[Page.OnSizeAllocated\(double, double\)](#) , [Page.UpdateChildrenLayout\(\)](#) , [Page.On<T>\(\)](#) ,
[Page.BackgroundImageSource](#) , [Page.IconImageSource](#) , [Page.IsBusy](#) , [Page.Padding](#) ,
[Page.Title](#) , [Page.ToolbarItems](#) , [Page.MenuBarItems](#) , [Page.NavigatedTo](#) , [Page.NavigatingFrom](#) ,
[Page.NavigatedFrom](#) , [Page.LayoutChanged](#) , [Page.Appearing](#) , [Page.Disappearing](#) ,
[VisualElement.ControlsVisualElementMapper](#) , [VisualElement.ShadowProperty](#) ,
[VisualElement.ZIndexProperty](#) , [VisualElement.NavigationProperty](#) , [VisualElement.StyleProperty](#) ,
[VisualElement.InputTransparentProperty](#) , [VisualElement.IsEnabledProperty](#) ,
[VisualElement.XProperty](#) , [VisualElement.YProperty](#) , [VisualElement.AnchorXProperty](#) ,
[VisualElement.AnchorYProperty](#) , [VisualElement.TranslationXProperty](#) ,
[VisualElement.TranslationYProperty](#) , [VisualElement.WidthProperty](#) , [VisualElement.HeightProperty](#) ,
[VisualElement.RotationProperty](#) , [VisualElement.RotationXProperty](#) ,
[VisualElement.RotationYProperty](#) , [VisualElement.ScaleProperty](#) , [VisualElement.ScaleXProperty](#) ,
[VisualElement.ScaleYProperty](#) , [VisualElement.ClipProperty](#) , [VisualElement.VisualProperty](#) ,
[VisualElement.IsVisibleProperty](#) , [VisualElement.OpacityProperty](#) ,
[VisualElement.BackgroundProperty](#) , [VisualElement.BehaviorsProperty](#) ,
[VisualElement.TriggersProperty](#) , [VisualElement.WidthRequestProperty](#) ,
[VisualElement.HeightRequestProperty](#) , [VisualElement.MinimumWidthRequestProperty](#) ,
[VisualElement.MinimumHeightRequestProperty](#) , [VisualElement.MaximumWidthRequestProperty](#) ,
[VisualElement.MaximumHeightRequestProperty](#) , [VisualElement.IsFocusedProperty](#) ,
[VisualElement.FlowDirectionProperty](#) , [VisualElement.WindowProperty](#) ,
[VisualElement.MapBackgroundColor\(IViewHandler, IView\)](#) ,
[VisualElement.MapBackgroundImageSource\(IViewHandler, IView\)](#) , [VisualElement.Arrange\(Rect\)](#) ,
[VisualElement.ArrangeOverride\(Rect\)](#) , [VisualElement.Layout\(Rect\)](#) ,

[VisualElement.InvalidateMeasureOverride\(\)](#), [VisualElement.MeasureOverride\(double, double\)](#), [VisualElement.BatchBegin\(\)](#), [VisualElement.BatchCommit\(\)](#), [VisualElement.Focus\(\)](#), [VisualElement.Measure\(double, double, MeasureFlags\)](#), [VisualElement.Unfocus\(\)](#), [VisualElement.InvalidateMeasure\(\)](#), [VisualElement.OnChildAdded\(Element\)](#), [VisualElement.OnChildRemoved\(Element, int\)](#), [VisualElement.OnChildrenReordered\(\)](#), [VisualElement.OnMeasure\(double, double\)](#), [VisualElement.SizeAllocated\(double, double\)](#), [VisualElement.ChangeVisualState\(\)](#), [VisualElement.Frame](#), [VisualElement.Handler](#), [VisualElement.Shadow](#), [VisualElement.ZIndex](#), [VisualElement.DesiredSize](#), [VisualElement.IsLoaded](#), [VisualElement.Visual](#), [VisualElement.FlowDirection](#), [VisualElement.Window](#), [VisualElement.AnchorX](#), [VisualElement.AnchorY](#), [VisualElement.BackgroundColor](#), [VisualElement.Background](#), [VisualElement.Behaviors](#), [VisualElement.Bounds](#), [VisualElement.Height](#), [VisualElement.HeightRequest](#), [VisualElement.InputTransparent](#), [VisualElement.IsEnabled](#), [VisualElement.IsFocused](#), [VisualElement.IsVisible](#), [VisualElement.MinimumHeightRequest](#), [VisualElement.MinimumWidthRequest](#), [VisualElement.MaximumHeightRequest](#), [VisualElement.MaximumWidthRequest](#), [VisualElement.Opacity](#), [VisualElement.Rotation](#), [VisualElement.RotationX](#), [VisualElement.RotationY](#), [VisualElement.Scale](#), [VisualElement.ScaleX](#), [VisualElement.ScaleY](#), [VisualElement.TranslationX](#), [VisualElement.TranslationY](#), [VisualElement.Triggers](#), [VisualElement.Width](#), [VisualElement.WidthRequest](#), [VisualElement.X](#), [VisualElement.Y](#), [VisualElement.Clip](#), [VisualElement.Resources](#), [VisualElement.Loaded](#), [VisualElement.Unloaded](#), [VisualElement.ChildrenReordered](#), [VisualElement.Focused](#), [VisualElement.MeasureInvalidated](#), [VisualElement.SizeChanged](#), [VisualElement.Unfocused](#), [NavigableElement.Navigation](#), [NavigableElement.Style](#), [NavigableElement.StyleClass](#), [NavigableElement.class](#), [Element.AutomationIdProperty](#), [Element.ClassIdProperty](#), [Element.ControlsElementMapper](#), [Element.FindByName\(string\)](#), [Element.RemoveDynamicResource\(BindableProperty\)](#), [Element.SetDynamicResource\(BindableProperty, string\)](#), [Element.OnParentChanging\(ParentChangingEventArgs\)](#), [Element.OnParentChanged\(\)](#), [Element.OnHandlerChanging\(HandlerChangingEventArgs\)](#), [Element.OnHandlerChanged\(\)](#), [Element.MapAutomationPropertiesIsInAccessibleTree\(IElementHandler, Element\)](#), [Element.MapAutomationPropertiesExcludedWithChildren\(IElementHandler, Element\)](#), [Element.AutomationId](#), [Element.ClassId](#), [Element.Effects](#), [Element.Id](#), [Element.StyleId](#), [Element.Parent](#), [Element.ChildAdded](#), [Element.ChildRemoved](#), [Element.DescendantAdded](#), [Element.DescendantRemoved](#), [Element.ParentChanging](#), [Element.ParentChanged](#), [Element.HandlerChanging](#), [Element.HandlerChanged](#), [BindableObject.BindingContextProperty](#), [BindableObject.ClearValue\(BindableProperty\)](#), [BindableObject.ClearValue\(BindablePropertyKey\)](#), [BindableObject.GetValue\(BindableProperty\)](#), [BindableObject.IsSet\(BindableProperty\)](#), [BindableObject.RemoveBinding\(BindableProperty\)](#), [BindableObject.SetBinding\(BindableProperty, BindingBase\)](#), [BindableObject.ApplyBindings\(\)](#), [BindableObject.OnPropertyChanging\(string\)](#), [BindableObject.UnapplyBindings\(\)](#),

[BindableObject.SetValue\(BindableProperty, object\)](#),
[BindableObject.SetValue\(BindablePropertyKey, object\)](#),
[BindableObject.CoerceValue\(BindableProperty\)](#), [BindableObject.CoerceValue\(BindablePropertyKey\)](#),
[BindableObject.Dispatcher](#), [BindableObject.BindingContext](#), [BindableObject.PropertyChanged](#),
[BindableObject.PropertyChanging](#), [BindableObject.BindingContextChanged](#),
[object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.GetType\(\)](#),
[object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

Constructors

AppShell()

```
public AppShell()
```

Class LinScriptPage









Namespace: [NfcDemo](#)

Assembly: NfcTerminal.dll





















A page that allows users to write and execute LIN scripts, displaying output and interacting with NFC tags.

```
[XamlFilePath("LinScriptPage.xaml")]  
public class LinScriptPage : ContentPage, INotifyPropertyChanged, IVisualTreeElement,  
IEffectControlProvider, IToolTipElement, IContextFlyoutElement, IAnimatable, ITitledElement,  
IToolbarElement, ILayout, IPageController, IVisualElementController, IElementController,  
IElementConfiguration<Page>, ISafeAreaView, IContentView, IPadding, IHotReloadableView,  
IView, IElement, ITransform, IReplaceableView
```



























Inheritance

[object](#)  ← [BindableObject](#)  ← [Element](#)  ← [NavigableElement](#)  ← [VisualElement](#)  ← [Page](#)  ← [TemplatedPage](#)  ← [ContentPage](#)  ← LinScriptPage

Implements

[INotifyPropertyChanged](#) , [IVisualTreeElement](#) , [IEffectControlProvider](#) , [IToolTipElement](#) ,
[IContextFlyoutElement](#) , [IAnimatable](#) , [ITitledElement](#) , [IToolbarElement](#) , [ILayout](#) ,
[IPageController](#) , [IVisualElementController](#) , [IElementController](#) , [IElementConfiguration](#)  <[Page](#) >,
[ISafeAreaView](#) , [IContentView](#) , [IPadding](#) , [IHotReloadableView](#) , [IView](#) , [IElement](#) , [ITransform](#) ,
[IReplaceableView](#) 

Inherited Members

[ContentPage.ContentProperty](#) , [ContentPage.OnBindingContextChanged\(\)](#) ,
[ContentPage.MeasureOverride\(double, double\)](#) , [ContentPage.ArrangeOverride\(Rect\)](#) ,
[ContentPage.InvalidateMeasureOverride\(\)](#) , [ContentPage.Content](#) ,
[TemplatedPage.ControlTemplateProperty](#) , [TemplatedPage.OnApplyTemplate\(\)](#) ,
[TemplatedPage.OnChildRemoved\(Element, int\)](#) , [TemplatedPage.GetTemplateChild\(string\)](#) ,
[TemplatedPage.ControlTemplate](#) , [Page.BusySetSignalName](#) , [Page.AlertSignalName](#) ,
[Page.PromptSignalName](#) , [Page.ActionSheetSignalName](#) , [Page.BackgroundImageSourceProperty](#) ,
[Page.IsBusyProperty](#) , [Page.PaddingProperty](#) , [Page.TitleProperty](#) ,
[Page.IconImageSourceProperty](#) , [Page.OnNavigatedTo\(NavigatedToEventArgs\)](#) ,
[Page.OnNavigatingFrom\(NavigatingFromEventArgs\)](#) ,
[Page.OnNavigatedFrom\(NavigatedFromEventArgs\)](#) , [Page.GetParentWindow\(\)](#) ,
[Page.DisplayActionSheet\(string, string, string, params string\[\]\)](#) ,
[Page.DisplayActionSheet\(string, string, string, FlowDirection, params string\[\]\)](#) 

[Page.DisplayAlert\(string, string, string\)](#), [Page.DisplayAlert\(string, string, string, string\)](#),
[Page.DisplayAlert\(string, string, string, FlowDirection\)](#),
[Page.DisplayAlert\(string, string, string, string, FlowDirection\)](#),
[Page.DisplayPromptAsync\(string, string, string, string, string, int, Keyboard, string\)](#),
[Page.ForceLayout\(\)](#), [Page.SendBackButtonPressed\(\)](#),
[Page.LayoutChildren\(double, double, double, double\)](#), [Page.OnBackButtonPressed\(\)](#),
[Page.OnChildMeasureInvalidated\(object, EventArgs\)](#), [Page.OnParentSet\(\)](#),
[Page.OnSizeAllocated\(double, double\)](#), [Page.UpdateChildrenLayout\(\)](#), [Page.On<T>\(\)](#),
[Page.BackgroundImageSource](#), [Page.IconImageSource](#), [Page.IsBusy](#), [Page.Padding](#),
[Page.Title](#), [Page.ToolbarItems](#), [Page.MenuBarItems](#), [Page.NavigatedTo](#), [Page.NavigatingFrom](#),
[Page.NavigatedFrom](#), [Page.LayoutChanged](#), [Page.Appearing](#), [Page.Disappearing](#),
[VisualElement.ControlsVisualElementMapper](#), [VisualElement.ShadowProperty](#),
[VisualElement.ZIndexProperty](#), [VisualElement.NavigationProperty](#), [VisualElement.StyleProperty](#),
[VisualElement.InputTransparentProperty](#), [VisualElement.IsEnabledProperty](#),
[VisualElement.XProperty](#), [VisualElement.YProperty](#), [VisualElement.AnchorXProperty](#),
[VisualElement.AnchorYProperty](#), [VisualElement.TranslationXProperty](#),
[VisualElement.TranslationYProperty](#), [VisualElement.WidthProperty](#), [VisualElement.HeightProperty](#),
[VisualElement.RotationProperty](#), [VisualElement.RotationXProperty](#),
[VisualElement.RotationYProperty](#), [VisualElement.ScaleProperty](#), [VisualElement.ScaleXProperty](#),
[VisualElement.ScaleYProperty](#), [VisualElement.ClipProperty](#), [VisualElement.VisualProperty](#),
[VisualElement.IsVisibleProperty](#), [VisualElement.OpacityProperty](#),
[VisualElement.BackgroundColorProperty](#), [VisualElement.BackgroundProperty](#),
[VisualElement.BehaviorsProperty](#), [VisualElement.TriggersProperty](#),
[VisualElement.WidthRequestProperty](#), [VisualElement.HeightRequestProperty](#),
[VisualElement.MinimumWidthRequestProperty](#), [VisualElement.MinimumHeightRequestProperty](#),
[VisualElement.MaximumWidthRequestProperty](#), [VisualElement.MaximumHeightRequestProperty](#),
[VisualElement.IsFocusedProperty](#), [VisualElement.FlowDirectionProperty](#),
[VisualElement.WindowProperty](#), [VisualElement.MapBackgroundColor\(IViewHandler, IView\)](#),
[VisualElement.MapBackgroundImageSource\(IViewHandler, IView\)](#), [VisualElement.Arrange\(Rect\)](#),
[VisualElement.Layout\(Rect\)](#), [VisualElement.BatchBegin\(\)](#), [VisualElement.BatchCommit\(\)](#),
[VisualElement.Focus\(\)](#), [VisualElement.Measure\(double, double, MeasureFlags\)](#),
[VisualElement.Unfocus\(\)](#), [VisualElement.InvalidateMeasure\(\)](#),
[VisualElement.OnChildAdded\(Element\)](#), [VisualElement.OnChildrenReordered\(\)](#),
[VisualElement.OnMeasure\(double, double\)](#), [VisualElement.SizeAllocated\(double, double\)](#),
[VisualElement.ChangeVisualState\(\)](#), [VisualElement.Frame](#), [VisualElement.Handler](#),
[VisualElement.Shadow](#), [VisualElement.ZIndex](#), [VisualElement.DesiredSize](#),
[VisualElement.IsLoaded](#), [VisualElement.Visual](#), [VisualElement.FlowDirection](#),
[VisualElement.Window](#), [VisualElement.AnchorX](#), [VisualElement.AnchorY](#),
[VisualElement.BackgroundColor](#), [VisualElement.Background](#), [VisualElement.Behaviors](#),
[VisualElement.Bounds](#), [VisualElement.Height](#), [VisualElement.HeightRequest](#),

[VisualElement.InputTransparent](#) , [VisualElement.IsEnabled](#) , [VisualElement.IsFocused](#) ,
[VisualElement.IsVisible](#) , [VisualElement.MinimumHeightRequest](#) ,
[VisualElement.MinimumWidthRequest](#) , [VisualElement.MaximumHeightRequest](#) ,
[VisualElement.MaximumWidthRequest](#) , [VisualElement.Opacity](#) , [VisualElement.Rotation](#) ,
[VisualElement.RotationX](#) , [VisualElement.RotationY](#) , [VisualElement.Scale](#) , [VisualElement.ScaleX](#) ,
[VisualElement.ScaleY](#) , [VisualElement.TranslationX](#) , [VisualElement.TranslationY](#) ,
[VisualElement.Triggers](#) , [VisualElement.Width](#) , [VisualElement.WidthRequest](#) , [VisualElement.X](#) ,
[VisualElement.Y](#) , [VisualElement.Clip](#) , [VisualElement.Resources](#) , [VisualElement.Loaded](#) ,
[VisualElement.Unloaded](#) , [VisualElement.ChildrenReordered](#) , [VisualElement.Focused](#) ,
[VisualElement.MeasureInvalidated](#) , [VisualElement.SizeChanged](#) , [VisualElement.Unfocused](#) ,
[NavigableElement.Navigation](#) , [NavigableElement.Style](#) , [NavigableElement.StyleClass](#) ,
[NavigableElement.class](#) , [Element.AutomationIdProperty](#) , [Element.ClassIdProperty](#) ,
[Element.ControlsElementMapper](#) , [Element.FindByName\(string\)](#) ,
[Element.RemoveDynamicResource\(BindableProperty\)](#) ,
[Element.SetDynamicResource\(BindableProperty, string\)](#) , [Element.OnPropertyChanged\(string\)](#) ,
[Element.OnParentChanging\(ParentChangingEventArgs\)](#) , [Element.OnParentChanged\(\)](#) ,
[Element.OnHandlerChanging\(HandlerChangingEventArgs\)](#) , [Element.OnHandlerChanged\(\)](#) ,
[Element.MapAutomationPropertiesIsInAccessibleTree\(IElementHandler, Element\)](#) ,
[Element.MapAutomationPropertiesExcludedWithChildren\(IElementHandler, Element\)](#) ,
[Element.AutomationId](#) , [Element.ClassId](#) , [Element.Effects](#) , [Element.Id](#) , [Element.StyleId](#) ,
[Element.Parent](#) , [Element.ChildAdded](#) , [Element.ChildRemoved](#) , [Element.DescendantAdded](#) ,
[Element.DescendantRemoved](#) , [Element.ParentChanging](#) , [Element.ParentChanged](#) ,
[Element.HandlerChanging](#) , [Element.HandlerChanged](#) , [BindableObject.BindingContextProperty](#) ,
[BindableObject.ClearValue\(BindableProperty\)](#) , [BindableObject.ClearValue\(BindablePropertyKey\)](#) ,
[BindableObject.GetValue\(BindableProperty\)](#) , [BindableObject.IsSet\(BindableProperty\)](#) ,
[BindableObject.RemoveBinding\(BindableProperty\)](#) ,
[BindableObject.SetBinding\(BindableProperty, BindingBase\)](#) , [BindableObject.ApplyBindings\(\)](#) ,
[BindableObject.OnPropertyChanging\(string\)](#) , [BindableObject.UnapplyBindings\(\)](#) ,
[BindableObject.SetValue\(BindableProperty, object\)](#) ,
[BindableObject.SetValue\(BindablePropertyKey, object\)](#) ,
[BindableObject.CoerceValue\(BindableProperty\)](#) , [BindableObject.CoerceValue\(BindablePropertyKey\)](#) ,
[BindableObject.Dispatcher](#) , [BindableObject.BindingContext](#) , [BindableObject.PropertyChanged](#) ,
[BindableObject.PropertyChanging](#) , [BindableObject.BindingContextChanged](#) ,
[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#)

Constructors

LinScriptPage()

Initializes a new instance of the [LinScriptPage](#) class. Sets up the NFC service, LIN interpreter, and default script content.

```
public LinScriptPage()
```

Methods

AppendLine(string, Color?)

Appends a line of text with an optional color to the output label and scrolls to the bottom.

```
public void AppendLine(string text, Color? color = null)
```

Parameters

text [string](#) 

The text to append.

color [Color](#) 

The color of the text. Defaults to white if `null`.

OnAppearing()

Called when the page appears. Resumes NFC tag discovery.

```
protected override void OnAppearing()
```

OnDisappearing()

Called when the page is no longer visible. Pauses NFC tag discovery.

```
protected override void OnDisappearing()
```


SelectLine(Editor, int)

Selects and highlights the specified line number in the given [Editor](#).

```
public static void SelectLine(Editor editor, int lineNumber)
```

Parameters

editor [Editor](#)

The editor control whose text will be updated.

lineNumber [int](#)

The 1-based line number to select and highlight.

Class LinTerminalPage

Namespace: [NfcDemo](#)

Assembly: NfcTerminal.dll

```
[XamlFilePath("LinTerminalPage.xaml")]  
public class LinTerminalPage : ContentPage, INotifyPropertyChanged, IVisualTreeElement,  
IEffectControlProvider, IToolTipElement, IContextFlyoutElement, IAnimatable, ITitledElement,  
IToolbarElement, ILayout, IPageController, IVisualElementController, IElementController,  
IElementConfiguration<Page>, ISafeAreaView, IContentView, IPadding, IHotReloadableView,  
IView, IElement, ITransform, IReplaceableView
```

Inheritance

[object](#) ← [BindableObject](#) ← [Element](#) ← [NavigableElement](#) ← [VisualElement](#) ← [Page](#) ← [TemplatedPage](#) ← [ContentPage](#) ← LinTerminalPage

Implements

[INotifyPropertyChanged](#), [IVisualTreeElement](#), [IEffectControlProvider](#), [IToolTipElement](#), [IContextFlyoutElement](#), [IAnimatable](#), [ITitledElement](#), [IToolbarElement](#), [ILayout](#), [IPageController](#), [IVisualElementController](#), [IElementController](#), [IElementConfiguration](#) <[Page](#)>, [ISafeAreaView](#), [IContentView](#), [IPadding](#), [IHotReloadableView](#), [IView](#), [IElement](#), [ITransform](#), [IReplaceableView](#)

Inherited Members

[ContentPage.ContentProperty](#), [ContentPage.OnBindingContextChanged\(\)](#), [ContentPage.MeasureOverride\(double, double\)](#), [ContentPage.ArrangeOverride\(Rect\)](#), [ContentPage.InvalidateMeasureOverride\(\)](#), [ContentPage.Content](#), [TemplatedPage.ControlTemplateProperty](#), [TemplatedPage.OnApplyTemplate\(\)](#), [TemplatedPage.OnChildRemoved\(Element, int\)](#), [TemplatedPage.GetTemplateChild\(string\)](#), [TemplatedPage.ControlTemplate](#), [Page.BusySetSignalName](#), [Page.AlertSignalName](#), [Page.PromptSignalName](#), [Page.ActionSheetSignalName](#), [Page.BackgroundImageSourceProperty](#), [Page.IsBusyProperty](#), [Page.PaddingProperty](#), [Page.TitleProperty](#), [Page.IconImageSourceProperty](#), [Page.OnNavigatedTo\(NavigatedToEventArgs\)](#), [Page.OnNavigatingFrom\(NavigatingFromEventArgs\)](#), [Page.OnNavigatedFrom\(NavigatedFromEventArgs\)](#), [Page.GetParentWindow\(\)](#), [Page.DisplayActionSheet\(string, string, string, params string\[\]\)](#), [Page.DisplayActionSheet\(string, string, string, FlowDirection, params string\[\]\)](#), [Page.DisplayAlert\(string, string, string\)](#), [Page.DisplayAlert\(string, string, string, string\)](#), [Page.DisplayAlert\(string, string, string, FlowDirection\)](#), [Page.DisplayAlert\(string, string, string, string, FlowDirection\)](#),

[Page.DisplayPromptAsync\(string, string, string, string, string, int, Keyboard, string\)](#),
[Page.ForceLayout\(\)](#), [Page.SendBackButtonPressed\(\)](#),
[Page.LayoutChildren\(double, double, double, double\)](#), [Page.OnBackButtonPressed\(\)](#),
[Page.OnChildMeasureInvalidated\(object, EventArgs\)](#), [Page.OnParentSet\(\)](#),
[Page.OnSizeAllocated\(double, double\)](#), [Page.UpdateChildrenLayout\(\)](#), [Page.On<T>\(\)](#),
[Page.BackgroundImageSource](#), [Page.IconImageSource](#), [Page.IsBusy](#), [Page.Padding](#),
[Page.Title](#), [Page.ToolbarItems](#), [Page.MenuBarItems](#), [Page.NavigatedTo](#), [Page.NavigatingFrom](#),
[Page.NavigatedFrom](#), [Page.LayoutChanged](#), [Page.Appearing](#), [Page.Disappearing](#),
[VisualElement.ControlsVisualElementMapper](#), [VisualElement.ShadowProperty](#),
[VisualElement.ZIndexProperty](#), [VisualElement.NavigationProperty](#), [VisualElement.StyleProperty](#),
[VisualElement.InputTransparentProperty](#), [VisualElement.IsEnabledProperty](#),
[VisualElement.XProperty](#), [VisualElement.YProperty](#), [VisualElement.AnchorXProperty](#),
[VisualElement.AnchorYProperty](#), [VisualElement.TranslationXProperty](#),
[VisualElement.TranslationYProperty](#), [VisualElement.WidthProperty](#), [VisualElement.HeightProperty](#),
[VisualElement.RotationProperty](#), [VisualElement.RotationXProperty](#),
[VisualElement.RotationYProperty](#), [VisualElement.ScaleProperty](#), [VisualElement.ScaleXProperty](#),
[VisualElement.ScaleYProperty](#), [VisualElement.ClipProperty](#), [VisualElement.VisualProperty](#),
[VisualElement.IsVisibleProperty](#), [VisualElement.OpacityProperty](#),
[VisualElement.BackgroundColorProperty](#), [VisualElement.BackgroundProperty](#),
[VisualElement.BehaviorsProperty](#), [VisualElement.TriggersProperty](#),
[VisualElement.WidthRequestProperty](#), [VisualElement.HeightRequestProperty](#),
[VisualElement.MinimumWidthRequestProperty](#), [VisualElement.MinimumHeightRequestProperty](#),
[VisualElement.MaximumWidthRequestProperty](#), [VisualElement.MaximumHeightRequestProperty](#),
[VisualElement.IsFocusedProperty](#), [VisualElement.FlowDirectionProperty](#),
[VisualElement.WindowProperty](#), [VisualElement.MapBackgroundColor\(IViewHandler, IView\)](#),
[VisualElement.MapBackgroundImageSource\(IViewHandler, IView\)](#), [VisualElement.Arrange\(Rect\)](#),
[VisualElement.Layout\(Rect\)](#), [VisualElement.BatchBegin\(\)](#), [VisualElement.BatchCommit\(\)](#),
[VisualElement.Focus\(\)](#), [VisualElement.Measure\(double, double, MeasureFlags\)](#),
[VisualElement.Unfocus\(\)](#), [VisualElement.InvalidateMeasure\(\)](#),
[VisualElement.OnChildAdded\(Element\)](#), [VisualElement.OnChildrenReordered\(\)](#),
[VisualElement.OnMeasure\(double, double\)](#), [VisualElement.SizeAllocated\(double, double\)](#),
[VisualElement.ChangeVisualState\(\)](#), [VisualElement.Frame](#), [VisualElement.Handler](#),
[VisualElement.Shadow](#), [VisualElement.ZIndex](#), [VisualElement.DesiredSize](#),
[VisualElement.IsLoaded](#), [VisualElement.Visual](#), [VisualElement.FlowDirection](#),
[VisualElement.Window](#), [VisualElement.AnchorX](#), [VisualElement.AnchorY](#),
[VisualElement.BackgroundColor](#), [VisualElement.Background](#), [VisualElement.Behaviors](#),
[VisualElement.Bounds](#), [VisualElement.Height](#), [VisualElement.HeightRequest](#),
[VisualElement.InputTransparent](#), [VisualElement.IsEnabled](#), [VisualElement.IsFocused](#),
[VisualElement.IsVisible](#), [VisualElement.MinimumHeightRequest](#),
[VisualElement.MinimumWidthRequest](#), [VisualElement.MaximumHeightRequest](#),

[VisualElement.MaximumWidthRequest](#), [VisualElement.Opacity](#), [VisualElement.Rotation](#), [VisualElement.RotationX](#), [VisualElement.RotationY](#), [VisualElement.Scale](#), [VisualElement.ScaleX](#), [VisualElement.ScaleY](#), [VisualElement.TranslationX](#), [VisualElement.TranslationY](#), [VisualElement.Triggers](#), [VisualElement.Width](#), [VisualElement.WidthRequest](#), [VisualElement.X](#), [VisualElement.Y](#), [VisualElement.Clip](#), [VisualElement.Resources](#), [VisualElement.Loaded](#), [VisualElement.Unloaded](#), [VisualElement.ChildrenReordered](#), [VisualElement.Focused](#), [VisualElement.MeasureInvalidated](#), [VisualElement.SizeChanged](#), [VisualElement.Unfocused](#), [NavigableElement.Navigation](#), [NavigableElement.Style](#), [NavigableElement.StyleClass](#), [NavigableElement.class](#), [Element.AutomationIdProperty](#), [Element.ClassIdProperty](#), [Element.ControlsElementMapper](#), [Element.FindByName\(string\)](#), [Element.RemoveDynamicResource\(BindableProperty\)](#), [Element.SetDynamicResource\(BindableProperty, string\)](#), [Element.OnPropertyChanged\(string\)](#), [Element.OnParentChanging\(ParentChangingEventArgs\)](#), [Element.OnParentChanged\(\)](#), [Element.OnHandlerChanging\(HandlerChangingEventArgs\)](#), [Element.OnHandlerChanged\(\)](#), [Element.MapAutomationPropertiesIsInAccessibleTree\(IElementHandler, Element\)](#), [Element.MapAutomationPropertiesExcludedWithChildren\(IElementHandler, Element\)](#), [Element.AutomationId](#), [Element.ClassId](#), [Element.Effects](#), [Element.Id](#), [Element.StyleId](#), [Element.Parent](#), [Element.ChildAdded](#), [Element.ChildRemoved](#), [Element.DescendantAdded](#), [Element.DescendantRemoved](#), [Element.ParentChanging](#), [Element.ParentChanged](#), [Element.HandlerChanging](#), [Element.HandlerChanged](#), [BindableObject.BindingContextProperty](#), [BindableObject.ClearValue\(BindableProperty\)](#), [BindableObject.ClearValue\(BindablePropertyKey\)](#), [BindableObject.GetValue\(BindableProperty\)](#), [BindableObject.IsSet\(BindableProperty\)](#), [BindableObject.RemoveBinding\(BindableProperty\)](#), [BindableObject.SetBinding\(BindableProperty, BindingBase\)](#), [BindableObject.ApplyBindings\(\)](#), [BindableObject.OnPropertyChanging\(string\)](#), [BindableObject.UnapplyBindings\(\)](#), [BindableObject.SetValue\(BindableProperty, object\)](#), [BindableObject.SetValue\(BindablePropertyKey, object\)](#), [BindableObject.CoerceValue\(BindableProperty\)](#), [BindableObject.CoerceValue\(BindablePropertyKey\)](#), [BindableObject.Dispatcher](#), [BindableObject.BindingContext](#), [BindableObject.PropertyChanged](#), [BindableObject.PropertyChanging](#), [BindableObject.BindingContextChanged](#), [object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.GetType\(\)](#), [object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

Constructors

LinTerminalPage()

Initializes a new instance of the [LinTerminalPage](#) class. Subscribes to NFC tag discovery events and sets up the output scrolling behavior.

```
public LinTerminalPage()
```

Methods

OnAppearing()

Called when the page appears. Resumes NFC tag discovery.

```
protected override void OnAppearing()
```

OnDisappearing()

Called when the page is no longer visible. Pauses NFC tag discovery.

```
protected override void OnDisappearing()
```

Class MauiProgram

Namespace: [NfcDemo](#)








Assembly: NfcTerminal.dll

```
public static class MauiProgram
```

Inheritance

[object](#)  ← MauiProgram

Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  ,
[object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

Methods

CreateMauiApp()

```
public static MauiApp CreateMauiApp()
```

Returns

[MauiApp](#) 

Class MessageOptions

Namespace: [NfcDemo](#)

Assembly: NfcTerminal.dll








Represents a set of context-specific options presented to the user via an action sheet.

```
public class MessageOptions
```

Inheritance

[object](#)  ← MessageOptions

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) , [object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#) 

Constructors

MessageOptions(object, string, params (string option, Action<object> callback)[])

Initializes a new instance of the [MessageOptions](#) class with the specified context, message, and options.

```
public MessageOptions(object context, string msg, params (string option, Action<object>  
callback)[] options)
```

Parameters

context [object](#) 

An arbitrary object passed to each option's callback when invoked.

msg [string](#) 

The base message text displayed or truncated in the action sheet title.

options ([string](#)  [option](#) , [Action](#)  <[object](#)  > [callback](#) )[]

A list of tuples, each containing an option label and a callback action taking the `context` as a parameter.

Methods

Invoke(Page)

Displays an action sheet on the specified [Page](#) with the defined options. When the user selects an option, invokes the corresponding callback with the provided context.

```
public void Invoke(Page page)
```

Parameters

`page` [Page](#)

The [Page](#) on which to display the action sheet.

Class Program

Namespace: [NfcDemo](#)








Assembly: NfcTerminal.dll

```
public class Program
```

Inheritance

[object](#)  ← Program

Inherited Members

[object.Equals\(object\)](#)  , [object.Equals\(object, object\)](#)  , [object.GetHashCode\(\)](#)  , [object.GetType\(\)](#)  ,
[object.MemberwiseClone\(\)](#)  , [object.ReferenceEquals\(object, object\)](#)  , [object.ToString\(\)](#) 

Class TLVPage









Namespace: [NfcDemo](#)

Assembly: NfcTerminal.dll


















Page that parses a TLV-encoded hex string, displays its tree representation, and allows copying the tree or JSON representation to the clipboard.

```
[XamlFilePath("TLVPage.xaml")]
public class TLVPage : ContentPage, INotifyPropertyChanged, IVisualTreeElement,
IEffectControlProvider, IToolTipElement, IContextFlyoutElement, IAnimatable, ITitledElement,
IToolbarElement, ILayout, IPageController, IVisualElementController, IElementController,
IElementConfiguration<Page>, ISafeAreaView, IContentView, IPadding, IHotReloadableView,
IView, IElement, ITransform, IReplaceableView
```



























Inheritance

[object](#)  ← [BindableObject](#)  ← [Element](#)  ← [NavigableElement](#)  ← [VisualElement](#)  ← [Page](#)  ← [TemplatedPage](#)  ← [ContentPage](#)  ← TLVPage

Implements

[INotifyPropertyChanged](#) , [IVisualTreeElement](#) , [IEffectControlProvider](#) , [IToolTipElement](#) ,
[IContextFlyoutElement](#) , [IAnimatable](#) , [ITitledElement](#) , [IToolbarElement](#) , [ILayout](#) ,
[IPageController](#) , [IVisualElementController](#) , [IElementController](#) , [IElementConfiguration](#)  [<Page>](#) ,
[ISafeAreaView](#) , [IContentView](#) , [IPadding](#) , [IHotReloadableView](#) , [IView](#) , [IElement](#) , [ITransform](#) ,
[IReplaceableView](#)

Inherited Members

[ContentPage.ContentProperty](#) , [ContentPage.OnBindingContextChanged\(\)](#) ,
[ContentPage.MeasureOverride\(double, double\)](#) , [ContentPage.ArrangeOverride\(Rect\)](#) ,
[ContentPage.InvalidateMeasureOverride\(\)](#) , [ContentPage.Content](#) ,
[TemplatedPage.ControlTemplateProperty](#) , [TemplatedPage.OnApplyTemplate\(\)](#) ,
[TemplatedPage.OnChildRemoved\(Element, int\)](#) , [TemplatedPage.GetTemplateChild\(string\)](#) ,
[TemplatedPage.ControlTemplate](#) , [Page.BusySetSignalName](#) , [Page.AlertSignalName](#) ,
[Page.PromptSignalName](#) , [Page.ActionSheetSignalName](#) , [Page.BackgroundImageSourceProperty](#) ,
[Page.IsBusyProperty](#) , [Page.PaddingProperty](#) , [Page.TitleProperty](#) ,
[Page.IconImageSourceProperty](#) , [Page.OnNavigatedTo\(NavigatedToEventArgs\)](#) ,
[Page.OnNavigatingFrom\(NavigatingFromEventArgs\)](#) ,
[Page.OnNavigatedFrom\(NavigatedFromEventArgs\)](#) , [Page.GetParentWindow\(\)](#) ,
[Page.DisplayActionSheet\(string, string, string, params string\[\]\)](#) ,
[Page.DisplayActionSheet\(string, string, string, FlowDirection, params string\[\]\)](#) 

[Page.DisplayAlert\(string, string, string\)](#), [Page.DisplayAlert\(string, string, string, string\)](#),
[Page.DisplayAlert\(string, string, string, FlowDirection\)](#),
[Page.DisplayAlert\(string, string, string, string, FlowDirection\)](#),
[Page.DisplayPromptAsync\(string, string, string, string, string, int, Keyboard, string\)](#),
[Page.ForceLayout\(\)](#), [Page.SendBackButtonPressed\(\)](#),
[Page.LayoutChildren\(double, double, double, double\)](#), [Page.OnAppearing\(\)](#),
[Page.OnBackButtonPressed\(\)](#), [Page.OnChildMeasureInvalidated\(object, EventArgs\)](#),
[Page.OnDisappearing\(\)](#), [Page.OnParentSet\(\)](#), [Page.OnSizeAllocated\(double, double\)](#),
[Page.UpdateChildrenLayout\(\)](#), [Page.On<T>\(\)](#), [Page.BackgroundImageSource](#),
[Page.IconImageSource](#), [Page.IsBusy](#), [Page.Padding](#), [Page.Title](#), [Page.ToolbarItems](#),
[Page.MenuBarItems](#), [Page.NavigatedTo](#), [Page.NavigatingFrom](#), [Page.NavigatedFrom](#),
[Page.LayoutChanged](#), [Page.Appearing](#), [Page.Disappearing](#),
[VisualElement.ControlsVisualElementMapper](#), [VisualElement.ShadowProperty](#),
[VisualElement.ZIndexProperty](#), [VisualElement.NavigationProperty](#), [VisualElement.StyleProperty](#),
[VisualElement.InputTransparentProperty](#), [VisualElement.IsEnabledProperty](#),
[VisualElement.XProperty](#), [VisualElement.YProperty](#), [VisualElement.AnchorXProperty](#),
[VisualElement.AnchorYProperty](#), [VisualElement.TranslationXProperty](#),
[VisualElement.TranslationYProperty](#), [VisualElement.WidthProperty](#), [VisualElement.HeightProperty](#),
[VisualElement.RotationProperty](#), [VisualElement.RotationXProperty](#),
[VisualElement.RotationYProperty](#), [VisualElement.ScaleProperty](#), [VisualElement.ScaleXProperty](#),
[VisualElement.ScaleYProperty](#), [VisualElement.ClipProperty](#), [VisualElement.VisualProperty](#),
[VisualElement.IsVisibleProperty](#), [VisualElement.OpacityProperty](#),
[VisualElement.BackgroundColorProperty](#), [VisualElement.BackgroundProperty](#),
[VisualElement.BehaviorsProperty](#), [VisualElement.TriggersProperty](#),
[VisualElement.WidthRequestProperty](#), [VisualElement.HeightRequestProperty](#),
[VisualElement.MinimumWidthRequestProperty](#), [VisualElement.MinimumHeightRequestProperty](#),
[VisualElement.MaximumWidthRequestProperty](#), [VisualElement.MaximumHeightRequestProperty](#),
[VisualElement.IsFocusedProperty](#), [VisualElement.FlowDirectionProperty](#),
[VisualElement.WindowProperty](#), [VisualElement.MapBackgroundColor\(IViewHandler, IView\)](#),
[VisualElement.MapBackgroundImageSource\(IViewHandler, IView\)](#), [VisualElement.Arrange\(Rect\)](#),
[VisualElement.Layout\(Rect\)](#), [VisualElement.BatchBegin\(\)](#), [VisualElement.BatchCommit\(\)](#),
[VisualElement.Focus\(\)](#), [VisualElement.Measure\(double, double, MeasureFlags\)](#),
[VisualElement.Unfocus\(\)](#), [VisualElement.InvalidateMeasure\(\)](#),
[VisualElement.OnChildAdded\(Element\)](#), [VisualElement.OnChildrenReordered\(\)](#),
[VisualElement.OnMeasure\(double, double\)](#), [VisualElement.SizeAllocated\(double, double\)](#),
[VisualElement.ChangeVisualState\(\)](#), [VisualElement.Frame](#), [VisualElement.Handler](#),
[VisualElement.Shadow](#), [VisualElement.ZIndex](#), [VisualElement.DesiredSize](#),
[VisualElement.IsLoaded](#), [VisualElement.Visual](#), [VisualElement.FlowDirection](#),
[VisualElement.Window](#), [VisualElement.AnchorX](#), [VisualElement.AnchorY](#),
[VisualElement.BackgroundColor](#), [VisualElement.Background](#), [VisualElement.Behaviors](#),

[VisualElement.Bounds](#), [VisualElement.Height](#), [VisualElement.HeightRequest](#),
[VisualElement.InputTransparent](#), [VisualElement.IsEnabled](#), [VisualElement.IsFocused](#),
[VisualElement.IsVisible](#), [VisualElement.MinimumHeightRequest](#),
[VisualElement.MinimumWidthRequest](#), [VisualElement.MaximumHeightRequest](#),
[VisualElement.MaximumWidthRequest](#), [VisualElement.Opacity](#), [VisualElement.Rotation](#),
[VisualElement.RotationX](#), [VisualElement.RotationY](#), [VisualElement.Scale](#), [VisualElement.ScaleX](#),
[VisualElement.ScaleY](#), [VisualElement.TranslationX](#), [VisualElement.TranslationY](#),
[VisualElement.Triggers](#), [VisualElement.Width](#), [VisualElement.WidthRequest](#), [VisualElement.X](#),
[VisualElement.Y](#), [VisualElement.Clip](#), [VisualElement.Resources](#), [VisualElement.Loaded](#),
[VisualElement.Unloaded](#), [VisualElement.ChildrenReordered](#), [VisualElement.Focused](#),
[VisualElement.MeasureInvalidated](#), [VisualElement.SizeChanged](#), [VisualElement.Unfocused](#),
[NavigableElement.Navigation](#), [NavigableElement.Style](#), [NavigableElement.StyleClass](#),
[NavigableElement.class](#), [Element.AutomationIdProperty](#), [Element.ClassIdProperty](#),
[Element.ControlsElementMapper](#), [Element.FindByName\(string\)](#),
[Element.RemoveDynamicResource\(BindableProperty\)](#),
[Element.SetDynamicResource\(BindableProperty, string\)](#), [Element.OnPropertyChanged\(string\)](#),
[Element.OnParentChanging\(ParentChangingEventArgs\)](#), [Element.OnParentChanged\(\)](#),
[Element.OnHandlerChanging\(HandlerChangingEventArgs\)](#), [Element.OnHandlerChanged\(\)](#),
[Element.MapAutomationPropertiesIsInAccessibleTree\(IElementHandler, Element\)](#),
[Element.MapAutomationPropertiesExcludedWithChildren\(IElementHandler, Element\)](#),
[Element.AutomationId](#), [Element.ClassId](#), [Element.Effects](#), [Element.Id](#), [Element.StyleId](#),
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[Element.DescendantRemoved](#), [Element.ParentChanging](#), [Element.ParentChanged](#),
[Element.HandlerChanging](#), [Element.HandlerChanged](#), [BindableObject.BindingContextProperty](#),
[BindableObject.ClearValue\(BindableProperty\)](#), [BindableObject.ClearValue\(BindablePropertyKey\)](#),
[BindableObject.GetValue\(BindableProperty\)](#), [BindableObject.IsSet\(BindableProperty\)](#),
[BindableObject.RemoveBinding\(BindableProperty\)](#),
[BindableObject.SetBinding\(BindableProperty, BindingBase\)](#), [BindableObject.ApplyBindings\(\)](#),
[BindableObject.OnPropertyChanging\(string\)](#), [BindableObject.UnapplyBindings\(\)](#),
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[BindableObject.SetValue\(BindablePropertyKey, object\)](#),
[BindableObject.CoerceValue\(BindableProperty\)](#), [BindableObject.CoerceValue\(BindablePropertyKey\)](#),
[BindableObject.Dispatcher](#), [BindableObject.BindingContext](#), [BindableObject.PropertyChanged](#),
[BindableObject.PropertyChanging](#), [BindableObject.BindingContextChanged](#),
[object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.GetType\(\)](#),
[object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

Constructors

TLVPage()

Initializes a new instance of the [TLVPage](#) class with a default TLV input.

```
public TLVPage()
```

TLVPage(string)

Initializes a new instance of the [TLVPage](#) class with a provided TLV input string.

```
public TLVPage(string inputText)
```

Parameters

inputText [string](#) 

The TLV-encoded hex string to parse and display.

Class TerminalPage

Namespace: [NfcDemo](#)

Assembly: NfcTerminal.dll

```
[XamlFilePath("TerminalPage.xaml")]  
public class TerminalPage : ContentPage, INotifyPropertyChanged, IVisualTreeElement,  
IEffectControlProvider, IToolTipElement, IContextFlyoutElement, IAnimatable, ITitledElement,  
IToolbarElement, ILayout, IPageController, IVisualElementController, IElementController,  
IElementConfiguration<Page>, ISafeAreaView, IContentView, IPadding, IHotReloadableView,  
IView, IElement, ITransform, IReplaceableView
```

Inheritance

[object](#) ← [BindableObject](#) ← [Element](#) ← [NavigableElement](#) ← [VisualElement](#) ← [Page](#) ← [TemplatedPage](#) ← [ContentPage](#) ← TerminalPage

Implements

[INotifyPropertyChanged](#), [IVisualTreeElement](#), [IEffectControlProvider](#), [IToolTipElement](#), [IContextFlyoutElement](#), [IAnimatable](#), [ITitledElement](#), [IToolbarElement](#), [ILayout](#), [IPageController](#), [IVisualElementController](#), [IElementController](#), [IElementConfiguration](#) <[Page](#)>, [ISafeAreaView](#), [IContentView](#), [IPadding](#), [IHotReloadableView](#), [IView](#), [IElement](#), [ITransform](#), [IReplaceableView](#)

Inherited Members

[ContentPage.ContentProperty](#), [ContentPage.OnBindingContextChanged\(\)](#), [ContentPage.MeasureOverride\(double, double\)](#), [ContentPage.ArrangeOverride\(Rect\)](#), [ContentPage.InvalidateMeasureOverride\(\)](#), [ContentPage.Content](#), [TemplatedPage.ControlTemplateProperty](#), [TemplatedPage.OnApplyTemplate\(\)](#), [TemplatedPage.OnChildRemoved\(Element, int\)](#), [TemplatedPage.GetTemplateChild\(string\)](#), [TemplatedPage.ControlTemplate](#), [Page.BusySetSignalName](#), [Page.AlertSignalName](#), [Page.PromptSignalName](#), [Page.ActionSheetSignalName](#), [Page.BackgroundImageSourceProperty](#), [Page.IsBusyProperty](#), [Page.PaddingProperty](#), [Page.TitleProperty](#), [Page.IconImageSourceProperty](#), [Page.OnNavigatedTo\(NavigatedToEventArgs\)](#), [Page.OnNavigatingFrom\(NavigatingFromEventArgs\)](#), [Page.OnNavigatedFrom\(NavigatedFromEventArgs\)](#), [Page.GetParentWindow\(\)](#), [Page.DisplayActionSheet\(string, string, string, params string\[\]\)](#), [Page.DisplayActionSheet\(string, string, string, FlowDirection, params string\[\]\)](#), [Page.DisplayAlert\(string, string, string\)](#), [Page.DisplayAlert\(string, string, string, string\)](#), [Page.DisplayAlert\(string, string, string, FlowDirection\)](#), [Page.DisplayAlert\(string, string, string, string, FlowDirection\)](#),

[Page.DisplayPromptAsync\(string, string, string, string, string, int, Keyboard, string\)](#),
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[Page.LayoutChildren\(double, double, double, double\)](#), [Page.OnBackButtonPressed\(\)](#),
[Page.OnChildMeasureInvalidated\(object, EventArgs\)](#), [Page.OnParentSet\(\)](#),
[Page.OnSizeAllocated\(double, double\)](#), [Page.UpdateChildrenLayout\(\)](#), [Page.On<T>\(\)](#),
[Page.BackgroundImageSource](#), [Page.IconImageSource](#), [Page.IsBusy](#), [Page.Padding](#),
[Page.Title](#), [Page.ToolbarItems](#), [Page.MenuBarItems](#), [Page.NavigatedTo](#), [Page.NavigatingFrom](#),
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[VisualElement.ScaleYProperty](#), [VisualElement.ClipProperty](#), [VisualElement.VisualProperty](#),
[VisualElement.IsVisibleProperty](#), [VisualElement.OpacityProperty](#),
[VisualElement.BackgroundColorProperty](#), [VisualElement.BackgroundProperty](#),
[VisualElement.BehaviorsProperty](#), [VisualElement.TriggersProperty](#),
[VisualElement.WidthRequestProperty](#), [VisualElement.HeightRequestProperty](#),
[VisualElement.MinimumWidthRequestProperty](#), [VisualElement.MinimumHeightRequestProperty](#),
[VisualElement.MaximumWidthRequestProperty](#), [VisualElement.MaximumHeightRequestProperty](#),
[VisualElement.IsFocusedProperty](#), [VisualElement.FlowDirectionProperty](#),
[VisualElement.WindowProperty](#), [VisualElement.MapBackgroundColor\(IViewHandler, IView\)](#),
[VisualElement.MapBackgroundImageSource\(IViewHandler, IView\)](#), [VisualElement.Arrange\(Rect\)](#),
[VisualElement.Layout\(Rect\)](#), [VisualElement.BatchBegin\(\)](#), [VisualElement.BatchCommit\(\)](#),
[VisualElement.Focus\(\)](#), [VisualElement.Measure\(double, double, MeasureFlags\)](#),
[VisualElement.Unfocus\(\)](#), [VisualElement.InvalidateMeasure\(\)](#),
[VisualElement.OnChildAdded\(Element\)](#), [VisualElement.OnChildrenReordered\(\)](#),
[VisualElement.OnMeasure\(double, double\)](#), [VisualElement.SizeAllocated\(double, double\)](#),
[VisualElement.ChangeVisualState\(\)](#), [VisualElement.Frame](#), [VisualElement.Handler](#),
[VisualElement.Shadow](#), [VisualElement.ZIndex](#), [VisualElement.DesiredSize](#),
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[VisualElement.Bounds](#), [VisualElement.Height](#), [VisualElement.HeightRequest](#),
[VisualElement.InputTransparent](#), [VisualElement.IsEnabled](#), [VisualElement.IsFocused](#),
[VisualElement.IsVisible](#), [VisualElement.MinimumHeightRequest](#),
[VisualElement.MinimumWidthRequest](#), [VisualElement.MaximumHeightRequest](#),

[VisualElement.MaximumWidthRequest](#), [VisualElement.Opacity](#), [VisualElement.Rotation](#), [VisualElement.RotationX](#), [VisualElement.RotationY](#), [VisualElement.Scale](#), [VisualElement.ScaleX](#), [VisualElement.ScaleY](#), [VisualElement.TranslationX](#), [VisualElement.TranslationY](#), [VisualElement.Triggers](#), [VisualElement.Width](#), [VisualElement.WidthRequest](#), [VisualElement.X](#), [VisualElement.Y](#), [VisualElement.Clip](#), [VisualElement.Resources](#), [VisualElement.Loaded](#), [VisualElement.Unloaded](#), [VisualElement.ChildrenReordered](#), [VisualElement.Focused](#), [VisualElement.MeasureInvalidated](#), [VisualElement.SizeChanged](#), [VisualElement.Unfocused](#), [NavigableElement.Navigation](#), [NavigableElement.Style](#), [NavigableElement.StyleClass](#), [NavigableElement.class](#), [Element.AutomationIdProperty](#), [Element.ClassIdProperty](#), [Element.ControlsElementMapper](#), [Element.FindByName\(string\)](#), [Element.RemoveDynamicResource\(BindableProperty\)](#), [Element.SetDynamicResource\(BindableProperty, string\)](#), [Element.OnPropertyChanged\(string\)](#), [Element.OnParentChanging\(ParentChangingEventArgs\)](#), [Element.OnParentChanged\(\)](#), [Element.OnHandlerChanging\(HandlerChangingEventArgs\)](#), [Element.OnHandlerChanged\(\)](#), [Element.MapAutomationPropertiesIsInAccessibleTree\(IElementHandler, Element\)](#), [Element.MapAutomationPropertiesExcludedWithChildren\(IElementHandler, Element\)](#), [Element.AutomationId](#), [Element.ClassId](#), [Element.Effects](#), [Element.Id](#), [Element.StyleId](#), [Element.Parent](#), [Element.ChildAdded](#), [Element.ChildRemoved](#), [Element.DescendantAdded](#), [Element.DescendantRemoved](#), [Element.ParentChanging](#), [Element.ParentChanged](#), [Element.HandlerChanging](#), [Element.HandlerChanged](#), [BindableObject.BindingContextProperty](#), [BindableObject.ClearValue\(BindableProperty\)](#), [BindableObject.ClearValue\(BindablePropertyKey\)](#), [BindableObject.GetValue\(BindableProperty\)](#), [BindableObject.IsSet\(BindableProperty\)](#), [BindableObject.RemoveBinding\(BindableProperty\)](#), [BindableObject.SetBinding\(BindableProperty, BindingBase\)](#), [BindableObject.ApplyBindings\(\)](#), [BindableObject.OnPropertyChanging\(string\)](#), [BindableObject.UnapplyBindings\(\)](#), [BindableObject.SetValue\(BindableProperty, object\)](#), [BindableObject.SetValue\(BindablePropertyKey, object\)](#), [BindableObject.CoerceValue\(BindableProperty\)](#), [BindableObject.CoerceValue\(BindablePropertyKey\)](#), [BindableObject.Dispatcher](#), [BindableObject.BindingContext](#), [BindableObject.PropertyChanged](#), [BindableObject.PropertyChanging](#), [BindableObject.BindingContextChanged](#), [object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.GetType\(\)](#), [object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#), [object.ToString\(\)](#)

Constructors

TerminalPage()

Initializes a new instance of the [TerminalPage](#) class. Subscribes to NFC tag discovery events and sets up automatic scrolling of the output stack.


```
public TerminalPage()
```

Methods

OnAppearing()

Called when the page appears. Resumes NFC tag discovery.

```
protected override void OnAppearing()
```

OnDisappearing()

Called when the page is no longer visible. Pauses NFC tag discovery.

```
protected override void OnDisappearing()
```

Namespace NfcDemo.Lin

Classes

[LinExtension](#)

Provides extension functions for the LIN interpreter, including NFC operations and TLV parsing.

Class LinExtension

Namespace: [NfcDemo.Lin](#)

Assembly: NfcTerminal.dll








Provides extension functions for the LIN interpreter, including NFC operations and TLV parsing.

```
public class LinExtension
```

Inheritance

[object](#)  ← LinExtension

Inherited Members

[object.Equals\(object\)](#) , [object.Equals\(object, object\)](#) , [object.GetHashCode\(\)](#) , [object.GetType\(\)](#) ,
[object.MemberwiseClone\(\)](#) , [object.ReferenceEquals\(object, object\)](#) , [object.ToString\(\)](#) 

Constructors

LinExtension(Page, INfcService, Action<string, Color>)

Initializes a new instance of the [LinExtension](#) class. Also contains definitions for new built-in functions (data processing,nfc,printing): adpu(hex) num(string,base) hex(int,counitng zeros) ascii(string) -> hex byres to asci substr(string,int bgin,count) replace(str,form,to) find(str,key) byte(string,index,count*) tlv(string) tree(TLV) tlv_read(tlv,string,*)

```
public LinExtension(Page page, INfcService nfc, Action<string, Color> onMessage)
```

Parameters

page [Page](#) 

The page context in which to execute LIN commands.

nfc [INfcService](#)

The NFC service used for sending and receiving APDU commands.

onMessage [Action](#)  <[string](#) , [Color](#)  >

Callback invoked when printing messages, with text and color.

Fields

cts

Cancellation token source for asynchronous operations.

```
public CancellationTokenSource? cts
```

Field Value

[CancellationTokenSource](#)

Methods

Execute(string)

Executes a single line of LIN script, ignoring lines that start with "//" (comments).

```
public object Execute(string line)
```

Parameters

line [string](#)

The line of LIN script to execute.

Returns

[object](#)

The result of the LIN interpreter execution, or **null** if the line is a comment or there is no return value.