



## Obtaining the Workshop Materials

Either

- Open your browser to <https://github.com/Dyalog19/SA3/archive/master.zip>
  - Download/save the file

Or

- Copy the master.zip file from the flash drive available in the workshop

Then

- Unzip the file (preferably to somewhere easy to type)

The folder name is SA3-master. Rename this to SA3 if you can.

We'll refer to this folder as [SA3] in examples, and you should replace [SA3] with the folder you unzipped to.

For example, if you unzipped to the root of c:\ and renamed the folder from c:\SA3-master to c:\SA3, when you see the example:

```
]load [SA3]/Demos/*
```

You'll enter

```
]load c:/SA3/Demos/*
```



Try this...(Properties)

```
'hr' □WC 'HTMLRenderer' ('HTML' 'Hello World!')
```

OR

```
hr ← □NEW 'HTMLRenderer' (, <'HTML' 'Hello World!')
```

```
hr.Caption←'My HTMLRenderer'
```

```
hr.HTML←'<h1>Hi!</h1>'
```

```
hr.Size←100 100
```

```
hr.(Size Posn)←(25 25)(25 25)
```

```
hr.Coord
```

```
hr.Coord←'ScaledPixel'
```

```
hr.(Size Posn)
```

```
hr.Posn←25 25
```



**HTMLRenderer Properties as implemented as of 5 Sept 2019**

Property	Windows	Mac OS	Linux
Type	+	+	+
HTML	+	+	+
Posn	+	+	+
Size	+	+	+
URL	+	+	+
Coord	+	+	+
Border *	-	-	-
Visible	+	+	+
Event	+	+	+
Sizeable *	+	+	-
Moveable *	-	-	-
SysMenu *	+	-	-
MaxButton *	+	-	-
MinButton *	+	+	-
IconObj	+	!	!
Data	+	+	+
Attach	+	!	!
KeepOnClose	+	+	+
AsChild	+	!	!
InterceptedURLs	+	+	+
CEFVersion	+	+	!
Caption	+	+	+
MethodList	+	+	+
ChildList	+	+	+
EventList	+	+	+
PropList	+	+	+

\* indicates settable at creation time only

+ indicates it works

- indicates it has no effect

! Indicates it produces an error



Try this...(URL vs HTML)

```
'hr' WC 'HTMLRenderer' ('URL' 'www.google.com') ('HTML' 'Hi!')  
hr.URL←'www.dyalog.com'  
hr.URL←'dyalog_root'  
hr.URL←'www.dyalog.com'  
hr.URL←''
```

Try this...(Callbacks)

```
)clear  
]load HttpUtils  
]load [SA3]/Demos/SimpleForm  
SimpleForm ''
```

Try this...(MsgBox)

```
)clear  
]load [SA3]/Utilities/MsgBox  
mb←NEW MsgBox  
mb.Caption←'Are you sure?'  
mb.Style←'query'  
mb.Text←'Engage ludicrous speed Captain?'  
btnClicked←mb.Run
```



## EasyGUI

```
]link.create # [SA3]/Utilities/EasyGUI
)CS APLSource.UserFunctions
msg←'Is it break time yet?'
AskYesNo msg
ns←specifyParams ''
ns.Title←'SA3 Workshop'
ns.Posn←0 0
ns AskYesNo msg
countries←'USA' 'Canada' 'Ireland' 'UK'
SelectMultipleCheckbox countries
```

A Use the same ns we created from before, on any function

```
ns SelectMultipleCheckbox countries
ns←specifyParams 'Title' 'Select a country'
ns.BtnCaption←'Submit countries'
ns.Size←40 40
ns.Theme←##.Themes.Dark
ns.Header←'Please select countries you have been to'
ns SelectMultipleCheckbox countries
```

A JavaScript example

```
path←FindFile 'Find the countries.csv file'
countries←,⍋CSV path      A Vector of countries
SelectMultipleDropdown countries
```

A Notifications

```
NotifyError 'Invalid syntax!'
(specifyParams('Header' 'Easily display data'))('Size' 60 60))NotifyInfo 5 4p⍋A
```

A Graphics

```
DisplaySVG ##.Demo.svg
ref←DisplayProgressBar 0 10      A Min Max
ref.setProgress 3
##.Demo.TestProgress           A Add some Styling and Program Control
##.Demo.SimpleInterestApp2 ''  A Leveraging the underlying class
```



Try this...(DUI Page class)

```
)clear  
]load [SA3]/DUI/DUI  
]load [SA3]/Demos/I*  
InputDemo  
InputDemo2 ''
```

Try this...(DUI MiSite)

```
)clear  
]load [SA3]/DUI/DUI  
DUI.Run '[SA3]/Demos/2048/ '
```

Try this... (WebSockets)

```
)clear  
]load [SA3]/Demos/Web*  
WebSocketDemo ''
```

Try this... (DoPopup)

```
)clear  
]load [SA3]/Demos/DoPop*  
DoPopupDemo ''  
DoPopupDemo2 ''
```

Try this...(cubeDemo)

```
)clear  
]load [SA3]/Demos/cubeDemo  
cubeDemo '[SA3]'
```