Namespace BOOSEapp

Classes

[AppCanvas](#)

Drawing Class that handles all drawing on the BOOSE interpreter according to BOOSE commands. AppCanvas implements methods from ICanvas interface.

[AppCircle](#)

Class to draw a cirrcle round thecurrent cursor position.

[AppCommandFactory](#)

Designed to make command objects from the string passed into it from ProgramTextBox. AppCommandFactory extends the BOOSE command factory and replaces BOOSE objects like 'Circle' with new BOOSEapp commands to get around BOOSE restrictions.

[AppMoveTo](#)

Sets the cursor position for subsequent drawing operations, to the provide x,y position.

[AppRect](#)

Draws a rectangle of provided width and height with the current curosr position being the top left corner.

[BOOSEInterpreterGUI](#)

Graphical User Interface for interpreting BOOSE commands

Class AppCanvas

Namespace: BOOSEapp

Assembly: BOOSEapp.dll

Drawing Class that handles all drawing on the BOOSE interpreter according to BOOSE commands. AppCanvas implements methods from ICanvas interface.

```
public class AppCanvas : ICanvas
```

Inheritance

object ← AppCanvas

Implements

ICanvas

Inherited Members

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

Constructors

AppCanvas(int, int)

Constructor for canvas class which creates Bitmap used to implement drawing methods based on size of the drawing area.

```
public AppCanvas(int xsize, int ysize)
```

Parameters

`xsize` [int](int)

  Length of x-axis of bitmap.

`ysize` [int](int)

  Length of y-axis of bitmap.

Properties

PenColour

Get/Set the pencolour for the next drawing operation using a native colour datatype. Casts to relevant type.

```
public object PenColour { get; set; }
```

Property Value

object🔗

Xpos

X position of next drawing program.

```
public int Xpos { get; set; }
```

Property Value

int🔗

Ypos

Y position of next drawing program.

```
public int Ypos { get; set; }
```

Property Value

int🔗

Methods

Circle(int, bool)

Draws a circle of a set size based on the size of its radius at the cursors positon from the centre of the circle.

```
public void Circle(int radius, bool filled)
```

Parameters

radius int⧉

Radius of circle.

filled bool⧉

Boolen value on if the shapes centre should be filled in using the brushes current colour - If True circle is drawn filled, If False outline of circle is drawn instead.

Clear()

Fills in the bitmaps background in the default colour (DarkGrey).

```
public void Clear()
```

DrawTo(int, int)

Draws a line using the current pen from the cursors current X and Y position to a new provided X and Y position.

```
public void DrawTo(int x, int y)
```

Parameters

x int⧉

Specified X position.

y int⧉

Specified Y position.

MoveTo(int, int)

Moves the cursor to the X and Y position of the next drawing operation.

```
public void MoveTo(int x, int y)
```

Parameters

x int↗

    X position of cursor.

y int↗

    Y position of cursor.

Rect(int, int, bool)

Draws a rectangle at the position of the cursor from the top left.

```
public void Rect(int width, int height, bool filled)
```

Parameters

width int↗

    Width of rectangle.

height int↗

    Height of rectangle.

filled bool↗

    Boolen value on if the shapes centre should be filled in using the brushes current colour - If True rectangle is drawn filled, If False outline of rectangle is drawn instead.

Reset()

Resets cursor position to default position (0,0) and resets Pen and Brush colour values to black.

```
public void Reset()
```

Set(int, int)

Sets the output display size of the bitmap.

```
public void Set(int width, int height)
```

Parameters

width int↗

Width of bitmap display.

height int↗

Height of bitmap display.

SetColour(int, int, int)

Sets pen colour based on rgb values.

```
public void SetColour(int red, int green, int blue)
```

Parameters

red int↗

32-bit denary representation of red rgb value.

green int↗

32-bit denary representation of green rgb value.

blue int↗

32-bit denary representation of blue rgb value.

Tri(int, int)

Draws a triangle based on the x and y position of 3 points in a bounding rectangle.

```
public void Tri(int width, int height)
```

Parameters

width int⧉

   Width of the bounding rectangle.

height int⧉

   Height of the bounding rectangle.

WriteText(string)

Draws text on the output window at the cursors current position. Primarily used to display caught exception errors.

```
public void WriteText(string text)
```

Parameters

text string⧉

   String to output.

getBitmap()

Gets the drawing object of whatever native type. Returns an object so it can be cast to a native type. Use this to get native drawing type so that it can be displayed/output.

```
public object getBitmap()
```

Returns

[object](#)↗

CanvasBitmap

Class AppCircle

Namespace: [BOOSEapp](#)

Assembly: BOOSEapp.dll

Class to draw a cirrcle round thecurrent cursor position.

```
public class AppCircle : CommandOneParameter, ICommand
```

Inheritance

[object](#) ← Command ← CanvasCommand ← CommandOneParameter ← AppCircle

Implements

ICommand

Inherited Members

CommandOneParameter.param1 , CommandOneParameter.param1unprocessed , CanvasCommand.yPos , CanvasCommand.xPos , CanvasCommand.canvas , CanvasCommand.Canvas , Command.IsDouble , Command.program , Command.parameterList , Command.parameters , Command.paramsint , [Command.Set(StoredProgram, string)](#) , Command.Compile() , [Command.ProcessParameters(string)](#) , Command.ToString() , Command.Program , Command.Name , Command.ParameterList , Command.Parameters , Command.Paramsint , [object.Equals(object)](#) , [object.Equals(object, object)](#) , [object.GetHashCode()](#) , [object.GetType()](#) , [object.MemberwiseClone()](#) , [object.ReferenceEquals(object, object)](#)

Constructors

AppCircle()

Blank constructor for factory instantiation

```
public AppCircle()
```

AppCircle(Canvas, int)

Draws circle from cursors current position to x,y (the cursor is left at x,y

```
public AppCircle(Canvas c, int radius)
```

Parameters

c Canvas

   Canvas object

radius int↗

   Radius of circle

Methods

CheckParameters(string[])

Overrideen generic one parameter message to say radius not p1.

```
public override void CheckParameters(string[] parameterList)
```

Parameters

parameterList string↗[]

   List of parameters in command (e.g. Circle, 50)

Exceptions

CommandException

   Exception is thrown when command has more then 1 parameter as circle only takes one parameter

Execute()

Executes the command

```
public override void Execute()
```

Exceptions

CanvasException

Exception thrown if radius is less then 1 or a double type instead of int

Class AppCommandFactory

Namespace: BOOSEapp

Assembly: BOOSEapp.dll

Designed to make command objects from the string passed into it from ProgramTextBox. AppCommandFactory extends the BOOSE command factory and replaces BOOSE objects like 'Circle' with new BOOSEapp commands to get around BOOSE restrictions.

```
public class AppCommandFactory : CommandFactory, ICommandFactory
```

Inheritance

object ← CommandFactory ← AppCommandFactory

Implements

ICommandFactory

Inherited Members

object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object) , object.ToString()

Methods

MakeCommand(string)

Overrides original MakeCommand method and creates BOOSEapp objects to bypass the original BOOSE command restrictions. Makes a 'Command' Object from the string passed from ProgramTextBox - if the passed string does not match any of the updated commands - runs the base method of MakeCommand with the restrictions instead.

```
public override ICommand MakeCommand(string commandType)
```

Parameters

`commandType` string

   String holding command to be created. Case is unimportant and trimmed

Returns

ICommand

    ICommand object if successful

Exceptions

FactoryException

    Throw if no such command

Class AppMoveTo

Namespace: BOOSEapp

Assembly: BOOSEapp.dll

Sets the cursor position for subsequent drawing operations, to the provide x,y position.

```
public class AppMoveTo : CommandTwoParameters, ICommand
```

Inheritance

object ← Command ← CanvasCommand ← CommandOneParameter ← CommandTwoParameters ← AppMoveTo

Implements

ICommand

Inherited Members

CommandTwoParameters.param2 , CommandTwoParameters.param2unprocessed , CommandOneParameter.param1 , CommandOneParameter.param1unprocessed , CanvasCommand.yPos , CanvasCommand.xPos , CanvasCommand.canvas , CanvasCommand.Canvas , Command.IsDouble , Command.program , Command.parameterList , Command.parameters , Command.paramsint , Command.Set(StoredProgram, string) , Command.Compile() , Command.ProcessParameters(string) , Command.ToString() , Command.Program , Command.Name , Command.ParameterList , Command.Parameters , Command.Paramsint , object.Equals(object) , object.Equals(object, object) , object.GetHashCode() , object.GetType() , object.MemberwiseClone() , object.ReferenceEquals(object, object)

Constructors

AppMoveTo()

Blank constructor for factory instantiation.

```
public AppMoveTo()
```

Methods

CheckParameters(string[])

Overrideen generic two parameters message to say X and Y not p1 and p2.

```
public override void CheckParameters(string[] parameterList)
```

Parameters

`parameterList` [string](#)[]

List of parameters in command (e.g. moveto 100,100)

Exceptions

CommandException

Exception is thrown when command has more then 2 parameters as moveto only takes two parameters

Execute()

Executes the MoveTo command, if successful the drawing cursor will be moved to the passed x,y position.

```
public override void Execute()
```

Exceptions

CanvasException

Exception thrown if parameters are negitive or double.

Class AppRect

Namespace: [BOOSEapp](#)

Assembly: BOOSEapp.dll

Draws a rectangle of provided width and height with the current curosr position being the top left corner.

```
public class AppRect : CommandTwoParameters, ICommand
```

Inheritance

[object](#) ← Command ← CanvasCommand ← CommandOneParameter ← CommandTwoParameters ← AppRect

Implements

ICommand

Inherited Members

CommandTwoParameters.param2 , CommandTwoParameters.param2unprocessed , CommandOneParameter.param1 , CommandOneParameter.param1unprocessed , CanvasCommand.yPos , CanvasCommand.xPos , CanvasCommand.canvas , CanvasCommand.Canvas , Command.IsDouble , Command.program , Command.parameterList , Command.parameters , Command.paramsint , [Command.Set(StoredProgram, string)](#) , Command.Compile() , [Command.ProcessParameters(string)](#) , Command.ToString() , Command.Program , Command.Name , Command.ParameterList , Command.Parameters , Command.Paramsint , [object.Equals(object)](#) , [object.Equals(object, object)](#) , [object.GetHashCode()](#) , [object.GetType()](#) , [object.MemberwiseClone()](#) , [object.ReferenceEquals(object, object)](#)

Constructors

AppRect()

Blank constructor of factory instantiation.

```
public AppRect()
```

AppRect(Canvas, int, int)

Draws a rectangle starting in the top left from current cursor posittion.

```
public AppRect(Canvas c, int width, int height)
```

Parameters

c Canvas

  Cnavas object

width [int↗](int)

  Width of rectangle

height [int↗](int)

  Height of rectangle

Methods

CheckParameters(string[])

Overrideen generic two parameters message to say width and height not p1 and p2.

```
public override void CheckParameters(string[] parameterList)
```

Parameters

parameterList [string↗](string)[]

  List of parameters in command (e.g. rect 100,200)

Exceptions

CommandException

  Exception is thrown when command has more then 2 parameters as rect only takes two parameters

Execute()

Executes the Rect command - if successful a rectangle will be drawn on the canvas.

```
public override void Execute()
```

Exceptions

CanvasException

Exception thrown if parameters are negitive or double.

Class BOOSEInterpreterGUI

Namespace: [BOOSEapp](#)

Assembly: BOOSEapp.dll

Graphical User Interface for interpreting BOOSE commands

```
public class BOOSEInterpreterGUI : Form, IDropTarget, ISynchronizeInvoke, IWin32Window,
IBindableComponent, IComponent, IDisposable, IContainerControl
```

Inheritance

[object](#) ← [MarshalByRefObject](#) ← [Component](#) ← [Control](#) ← [ScrollableControl](#) ←
[ContainerControl](#) ← [Form](#) ← BOOSEInterpreterGUI

Implements

[IDropTarget](#), [ISynchronizeInvoke](#), [IWin32Window](#), [IBindableComponent](#), [IComponent](#),
[IDisposable](#), [IContainerControl](#)

Inherited Members

[Form.SetVisibleCore(bool)](#) , [Form.Activate()](#) , [Form.ActivateMdiChild(Form)](#) ,
[Form.AddOwnedForm(Form)](#) , [Form.AdjustFormScrollbars(bool)](#) , [Form.Close()](#) ,
[Form.CreateAccessibilityInstance()](#) , [Form.CreateControlsInstance()](#) , [Form.CreateHandle()](#) ,
[Form.DefWndProc(ref Message)](#) , [Form.ProcessMnemonic(char)](#) , [Form.CenterToParent()](#) ,
[Form.CenterToScreen()](#) , [Form.LayoutMdi(MdiLayout)](#) , [Form.OnActivated(EventArgs)](#) ,
[Form.OnBackgroundImageChanged(EventArgs)](#) ,
[Form.OnBackgroundImageLayoutChanged(EventArgs)](#) , [Form.OnClosing(CancelEventArgs)](#) ,
[Form.OnClosed(EventArgs)](#) , [Form.OnFormClosing(FormClosingEventArgs)](#) ,
[Form.OnFormClosed(FormClosedEventArgs)](#) , [Form.OnCreateControl()](#) ,
[Form.OnDeactivate(EventArgs)](#) , [Form.OnEnabledChanged(EventArgs)](#) , [Form.OnEnter(EventArgs)](#) ,
[Form.OnFontChanged(EventArgs)](#) , [Form.OnGotFocus(EventArgs)](#) ,
[Form.OnHandleCreated(EventArgs)](#) , [Form.OnHandleDestroyed(EventArgs)](#) ,
[Form.OnHelpButtonClicked(CancelEventArgs)](#) , [Form.OnLayout(LayoutEventArgs)](#) ,
[Form.OnLoad(EventArgs)](#) , [Form.OnMaximizedBoundsChanged(EventArgs)](#) ,
[Form.OnMaximumSizeChanged(EventArgs)](#) , [Form.OnMinimumSizeChanged(EventArgs)](#) ,
[Form.OnInputLanguageChanged(InputLanguageChangedEventArgs)](#) ,
[Form.OnInputLanguageChanging(InputLanguageChangingEventArgs)](#) ,
[Form.OnVisibleChanged(EventArgs)](#) , [Form.OnMdiChildActivate(EventArgs)](#) ,
[Form.OnMenuStart(EventArgs)](#) , [Form.OnMenuComplete(EventArgs)](#) ,
[Form.OnPaint(PaintEventArgs)](#) , [Form.OnResize(EventArgs)](#) ,
[Form.OnDpiChanged(DpiChangedEventArgs)](#) , [Form.OnGetDpiScaledSize(int, int, ref Size)](#) ,

Form.OnRightToLeftLayoutChanged(EventArgs) , Form.OnShown(EventArgs) ,
Form.OnTextChanged(EventArgs) , Form.ProcessCmdKey(ref Message, Keys) ,
Form.ProcessDialogKey(Keys) , Form.ProcessDialogChar(char) ,
Form.ProcessKeyPreview(ref Message) , Form.ProcessTabKey(bool) ,
Form.RemoveOwnedForm(Form) , Form.Select(bool, bool) ,
Form.ScaleMinMaxSize(float, float, bool) ,
Form.GetScaledBounds(Rectangle, SizeF, BoundsSpecified) ,
Form.ScaleControl(SizeF, BoundsSpecified) , Form.SetBoundsCore(int, int, int, int, BoundsSpecified) ,
Form.SetClientSizeCore(int, int) , Form.SetDesktopBounds(int, int, int, int) ,
Form.SetDesktopLocation(int, int) , Form.Show(IWin32Window) , Form.ShowDialog() ,
Form.ShowDialog(IWin32Window) , Form.ToString() , Form.UpdateDefaultButton() ,
Form.OnResizeBegin(EventArgs) , Form.OnResizeEnd(EventArgs) ,
Form.OnStyleChanged(EventArgs) , Form.ValidateChildren() ,
Form.ValidateChildren(ValidationConstraints) , Form.WndProc(ref Message) , Form.AcceptButton ,
Form.ActiveForm , Form.ActiveMdiChild , Form.AllowTransparency , Form.AutoScroll ,
Form.AutoSize , Form.AutoSizeMode , Form.AutoValidate , Form.BackColor ,
Form.FormBorderStyle , Form.CancelButton , Form.ClientSize , Form.ControlBox ,
Form.CreateParams , Form.DefaultImeMode , Form.DefaultSize , Form.DesktopBounds ,
Form.DesktopLocation , Form.DialogResult , Form.HelpButton , Form.Icon , Form.IsMdiChild ,
Form.IsMdiContainer , Form.IsRestrictedWindow , Form.KeyPreview , Form.Location ,
Form.MaximizedBounds , Form.MaximumSize , Form.MainMenuStrip , Form.MinimumSize ,
Form.MaximizeBox , Form.MdiChildren , Form.MdiChildrenMinimizedAnchorBottom ,
Form.MdiParent , Form.MinimizeBox , Form.Modal , Form.Opacity , Form.OwnedForms ,
Form.Owner , Form.RestoreBounds , Form.RightToLeftLayout , Form.ShowInTaskbar ,
Form.ShowIcon , Form.ShowWithoutActivation , Form.Size , Form.SizeGripStyle ,
Form.StartPosition , Form.Text , Form.TopLevel , Form.TopMost , Form.TransparencyKey ,
Form.WindowState , Form.AutoSizeChanged , Form.AutoValidateChanged ,
Form.HelpButtonClicked , Form.MaximizedBoundsChanged , Form.MaximumSizeChanged ,
Form.MinimumSizeChanged , Form.Activated , Form.Deactivate , Form.FormClosing ,
Form.FormClosed , Form.Load , Form.MdiChildActivate , Form.MenuComplete ,
Form.MenuStart , Form.InputLanguageChanged , Form.InputLanguageChanging ,
Form.RightToLeftLayoutChanged , Form.Shown , Form.DpiChanged , Form.ResizeBegin ,
Form.ResizeEnd , ContainerControl.OnAutoValidateChanged(EventArgs) ,
ContainerControl.OnMove(EventArgs) , ContainerControl.OnParentChanged(EventArgs) ,
ContainerControl.PerformAutoScale() , ContainerControl.RescaleConstantsForDpi(int, int) ,
ContainerControl.Validate() , ContainerControl.Validate(bool) ,
ContainerControl.AutoScaleDimensions , ContainerControl.AutoScaleFactor ,
ContainerControl.AutoScaleMode , ContainerControl.BindingContext ,
ContainerControl.CanEnableIme , ContainerControl.ActiveControl ,
ContainerControl.CurrentAutoScaleDimensions , ContainerControl.ParentForm ,

ScrollableControl.ScrollStateAutoScrolling , ScrollableControl.ScrollStateHScrollVisible ,
ScrollableControl.ScrollStateVScrollVisible , ScrollableControl.ScrollStateUserHasScrolled ,
ScrollableControl.ScrollStateFullDrag , ScrollableControl.GetScrollState(int) ,
ScrollableControl.OnMouseWheel(MouseEventArgs) ,
ScrollableControl.OnRightToLeftChanged(EventArgs) ,
ScrollableControl.OnPaintBackground(PaintEventArgs) ,
ScrollableControl.OnPaddingChanged(EventArgs) , ScrollableControl.SetDisplayRectLocation(int, int) ,
ScrollableControl.ScrollControlIntoView(Control) , ScrollableControl.ScrollToControl(Control) ,
ScrollableControl.OnScroll(ScrollEventArgs) , ScrollableControl.SetAutoScrollMargin(int, int) ,
ScrollableControl.SetScrollState(int, bool) , ScrollableControl.AutoScrollMargin ,
ScrollableControl.AutoScrollPosition , ScrollableControl.AutoScrollMinSize ,
ScrollableControl.DisplayRectangle , ScrollableControl.HScroll , ScrollableControl.HorizontalScroll ,
ScrollableControl.VScroll , ScrollableControl.VerticalScroll , ScrollableControl.Scroll ,
Control.GetAccessibilityObjectById(int) , Control.SetAutoSizeMode(AutoSizeMode) ,
Control.GetAutoSizeMode() , Control.GetPreferredSize(Size) ,
Control.AccessibilityNotifyClients(AccessibleEvents, int) ,
Control.AccessibilityNotifyClients(AccessibleEvents, int, int) , Control.BeginInvoke(Delegate) ,
Control.BeginInvoke(Action) , Control.BeginInvoke(Delegate, params object[]) ,
Control.BringToFront() , Control.Contains(Control) , Control.CreateGraphics() ,
Control.CreateControl() , Control.DestroyHandle() , Control.DoDragDrop(object, DragDropEffects) ,
Control.DoDragDrop(object, DragDropEffects, Bitmap, Point, bool) ,
Control.DrawToBitmap(Bitmap, Rectangle) , Control.EndInvoke(IAsyncResult) , Control.FindForm() ,
Control.GetTopLevel() , Control.RaiseKeyEvent(object, KeyEventArgs) ,
Control.RaiseMouseEvent(object, MouseEventArgs) , Control.Focus() ,
Control.FromChildHandle(nint) , Control.FromHandle(nint) ,
Control.GetChildAtPoint(Point, GetChildAtPointSkip) , Control.GetChildAtPoint(Point) ,
Control.GetContainerControl() , Control.GetNextControl(Control, bool) ,
Control.GetStyle(ControlStyles) , Control.Hide() , Control.InitLayout() , Control.Invalidate(Region) ,
Control.Invalidate(Region, bool) , Control.Invalidate() , Control.Invalidate(bool) ,
Control.Invalidate(Rectangle) , Control.Invalidate(Rectangle, bool) , Control.Invoke(Action) ,
Control.Invoke(Delegate) , Control.Invoke(Delegate, params object[]) ,
Control.Invoke<T>(Func<T>) , Control.InvokePaint(Control, PaintEventArgs) ,
Control.InvokePaintBackground(Control, PaintEventArgs) , Control.IsKeyLocked(Keys) ,
Control.IsInputChar(char) , Control.IsInputKey(Keys) , Control.IsMnemonic(char, string) ,
Control.LogicalToDeviceUnits(int) , Control.LogicalToDeviceUnits(Size) ,
Control.ScaleBitmapLogicalToDevice(ref Bitmap) , Control.NotifyInvalidate(Rectangle) ,
Control.InvokeOnClick(Control, EventArgs) , Control.OnAutoSizeChanged(EventArgs) ,
Control.OnBackColorChanged(EventArgs) , Control.OnBindingContextChanged(EventArgs) ,
Control.OnCausesValidationChanged(EventArgs) , Control.OnContextMenuStripChanged(EventArgs) ,
Control.OnCursorChanged(EventArgs) , Control.OnDataContextChanged(EventArgs) ,

Control.OnDockChanged(EventArgs)☐ , Control.OnForeColorChanged(EventArgs)☐ ,
Control.OnNotifyMessage(Message)☐ , Control.OnParentBackColorChanged(EventArgs)☐ ,
Control.OnParentBackgroundImageChanged(EventArgs)☐ ,
Control.OnParentBindingContextChanged(EventArgs)☐ , Control.OnParentCursorChanged(EventArgs)☐ ,
Control.OnParentDataContextChanged(EventArgs)☐ , Control.OnParentEnabledChanged(EventArgs)☐ ,
Control.OnParentFontChanged(EventArgs)☐ , Control.OnParentForeColorChanged(EventArgs)☐ ,
Control.OnParentRightToLeftChanged(EventArgs)☐ , Control.OnParentVisibleChanged(EventArgs)☐ ,
Control.OnPrint(PaintEventArgs)☐ , Control.OnTabIndexChanged(EventArgs)☐ ,
Control.OnTabStopChanged(EventArgs)☐ , Control.OnClick(EventArgs)☐ ,
Control.OnClientSizeChanged(EventArgs)☐ , Control.OnControlAdded(ControlEventArgs)☐ ,
Control.OnControlRemoved(ControlEventArgs)☐ , Control.OnLocationChanged(EventArgs)☐ ,
Control.OnDoubleClick(EventArgs)☐ , Control.OnDragEnter(DragEventArgs)☐ ,
Control.OnDragOver(DragEventArgs)☐ , Control.OnDragLeave(EventArgs)☐ ,
Control.OnDragDrop(DragEventArgs)☐ , Control.OnGiveFeedback(GiveFeedbackEventArgs)☐ ,
Control.InvokeGotFocus(Control, EventArgs)☐ , Control.OnHelpRequested(HelpEventArgs)☐ ,
Control.OnInvalidated(InvalidateEventArgs)☐ , Control.OnKeyDown(KeyEventArgs)☐ ,
Control.OnKeyPress(KeyPressEventArgs)☐ , Control.OnKeyUp(KeyEventArgs)☐ ,
Control.OnLeave(EventArgs)☐ , Control.InvokeLostFocus(Control, EventArgs)☐ ,
Control.OnLostFocus(EventArgs)☐ , Control.OnMarginChanged(EventArgs)☐ ,
Control.OnMouseDoubleClick(MouseEventArgs)☐ , Control.OnMouseClick(MouseEventArgs)☐ ,
Control.OnMouseCaptureChanged(EventArgs)☐ , Control.OnMouseDown(MouseEventArgs)☐ ,
Control.OnMouseEnter(EventArgs)☐ , Control.OnMouseLeave(EventArgs)☐ ,
Control.OnDpiChangedBeforeParent(EventArgs)☐ , Control.OnDpiChangedAfterParent(EventArgs)☐ ,
Control.OnMouseHover(EventArgs)☐ , Control.OnMouseMove(MouseEventArgs)☐ ,
Control.OnMouseUp(MouseEventArgs)☐ ,
Control.OnQueryContinueDrag(QueryContinueDragEventArgs)☐ ,
Control.OnRegionChanged(EventArgs)☐ , Control.OnPreviewKeyDown(PreviewKeyDownEventArgs)☐ ,
Control.OnSizeChanged(EventArgs)☐ , Control.OnChangeUICues(UICuesEventArgs)☐ ,
Control.OnSystemColorsChanged(EventArgs)☐ , Control.OnValidating(CancelEventArgs)☐ ,
Control.OnValidated(EventArgs)☐ , Control.PerformLayout()☐ , Control.PerformLayout(Control, string)☐ ,
Control.PointToClient(Point)☐ , Control.PointToScreen(Point)☐ ,
Control.PreProcessMessage(ref Message)☐ , Control.PreProcessControlMessage(ref Message)☐ ,
Control.ProcessKeyEventArgs(ref Message)☐ , Control.ProcessKeyMessage(ref Message)☐ ,
Control.RaiseDragEvent(object, DragEventArgs)☐ , Control.RaisePaintEvent(object, PaintEventArgs)☐ ,
Control.RecreateHandle()☐ , Control.RectangleToClient(Rectangle)☐ ,
Control.RectangleToScreen(Rectangle)☐ , Control.ReflectMessage(nint, ref Message)☐ ,
Control.Refresh()☐ , Control.ResetMouseEventArgs()☐ , Control.ResetText()☐ , Control.ResumeLayout()☐ ,
Control.ResumeLayout(bool)☐ , Control.Scale(SizeF)☐ , Control.Select()☐ ,
Control.SelectNextControl(Control, bool, bool, bool, bool)☐ , Control.SendToBack()☐ ,
Control.SetBounds(int, int, int, int)☐ , Control.SetBounds(int, int, int, int, BoundsSpecified)☐ ,

Control.SizeFromClientSize(Size) , Control.SetStyle(ControlStyles, bool) , Control.SetTopLevel(bool) ,
Control.RtlTranslateAlignment(HorizontalAlignment) ,
Control.RtlTranslateAlignment(LeftRightAlignment) ,
Control.RtlTranslateAlignment(ContentAlignment) ,
Control.RtlTranslateHorizontal(HorizontalAlignment) ,
Control.RtlTranslateLeftRight(LeftRightAlignment) , Control.RtlTranslateContent(ContentAlignment) ,
Control.Show() , Control.SuspendLayout() , Control.Update() , Control.UpdateBounds() ,
Control.UpdateBounds(int, int, int, int) , Control.UpdateBounds(int, int, int, int, int, int) ,
Control.UpdateZOrder() , Control.UpdateStyles() , Control.OnImeModeChanged(EventArgs) ,
Control.AccessibilityObject , Control.AccessibleDefaultActionDescription ,
Control.AccessibleDescription , Control.AccessibleName , Control.AccessibleRole ,
Control.AllowDrop , Control.Anchor , Control.AutoScrollOffset , Control.LayoutEngine ,
Control.DataContext , Control.BackgroundImage , Control.BackgroundImageLayout ,
Control.Bottom , Control.Bounds , Control.CanFocus , Control.CanRaiseEvents ,
Control.CanSelect , Control.Capture , Control.CausesValidation ,
Control.CheckForIllegalCrossThreadCalls , Control.ClientRectangle , Control.CompanyName ,
Control.ContainsFocus , Control.ContextMenuStrip , Control.Controls , Control.Created ,
Control.Cursor , Control.DataBindings , Control.DefaultBackColor , Control.DefaultCursor ,
Control.DefaultFont , Control.DefaultForeColor , Control.DefaultMargin ,
Control.DefaultMaximumSize , Control.DefaultMinimumSize , Control.DefaultPadding ,
Control.DeviceDpi , Control.IsDisposed , Control.Disposing , Control.Dock ,
Control.DoubleBuffered , Control.Enabled , Control.Focused , Control.Font ,
Control.FontHeight , Control.ForeColor , Control.Handle , Control.HasChildren , Control.Height ,
Control.IsHandleCreated , Control.InvokeRequired , Control.IsAccessible ,
Control.IsAncestorSiteInDesignMode , Control.IsMirrored , Control.Left , Control.Margin ,
Control.ModifierKeys , Control.MouseButtons , Control.MousePosition , Control.Name ,
Control.Parent , Control.ProductName , Control.ProductVersion , Control.RecreatingHandle ,
Control.Region , Control.RenderRightToLeft , Control.ResizeRedraw , Control.Right ,
Control.RightToLeft , Control.ScaleChildren , Control.Site , Control.TabIndex , Control.TabStop ,
Control.Tag , Control.Top , Control.TopLevelControl , Control.ShowKeyboardCues ,
Control.ShowFocusCues , Control.UseWaitCursor , Control.Visible , Control.Width ,
Control.PreferredSize , Control.Padding , Control.ImeMode , Control.ImeModeBase ,
Control.PropagatingImeMode , Control.BackColorChanged , Control.BackgroundImageChanged ,
Control.BackgroundImageLayoutChanged , Control.BindingContextChanged ,
Control.CausesValidationChanged , Control.ClientSizeChanged ,
Control.ContextMenuStripChanged , Control.CursorChanged , Control.DockChanged ,
Control.EnabledChanged , Control.FontChanged , Control.ForeColorChanged ,
Control.LocationChanged , Control.MarginChanged , Control.RegionChanged ,
Control.RightToLeftChanged , Control.SizeChanged , Control.TabIndexChanged ,
Control.TabStopChanged , Control.TextChanged , Control.VisibleChanged , Control.Click ,

Control.ControlAdded⬈ , Control.ControlRemoved⬈ , Control.DataContextChanged⬈ , Control.DragDrop⬈ , Control.DragEnter⬈ , Control.DragOver⬈ , Control.DragLeave⬈ , Control.GiveFeedback⬈ , Control.HandleCreated⬈ , Control.HandleDestroyed⬈ , Control.HelpRequested⬈ , Control.Invalidated⬈ , Control.PaddingChanged⬈ , Control.Paint⬈ , Control.QueryContinueDrag⬈ , Control.QueryAccessibilityHelp⬈ , Control.DoubleClick⬈ , Control.Enter⬈ , Control.GotFocus⬈ , Control.KeyDown⬈ , Control.KeyPress⬈ , Control.KeyUp⬈ , Control.Layout⬈ , Control.Leave⬈ , Control.LostFocus⬈ , Control.MouseClick⬈ , Control.MouseDoubleClick⬈ , Control.MouseCaptureChanged⬈ , Control.MouseDown⬈ , Control.MouseEnter⬈ , Control.MouseLeave⬈ , Control.DpiChangedBeforeParent⬈ , Control.DpiChangedAfterParent⬈ , Control.MouseHover⬈ , Control.MouseMove⬈ , Control.MouseUp⬈ , Control.MouseWheel⬈ , Control.Move⬈ , Control.PreviewKeyDown⬈ , Control.Resize⬈ , Control.ChangeUICues⬈ , Control.StyleChanged⬈ , Control.SystemColorsChanged⬈ , Control.Validating⬈ , Control.Validated⬈ , Control.ParentChanged⬈ , Control.ImeModeChanged⬈ , Component.Dispose()⬈ , Component.GetService(Type)⬈ , Component.Container⬈ , Component.DesignMode⬈ , Component.Events⬈ , Component.Disposed⬈ , MarshalByRefObject.GetLifetimeService()⬈ , MarshalByRefObject.InitializeLifetimeService()⬈ , MarshalByRefObject.MemberwiseClone(bool)⬈ , object.Equals(object)⬈ , object.Equals(object, object)⬈ , object.GetHashCode()⬈ , object.GetType()⬈ , object.MemberwiseClone()⬈ , object.ReferenceEquals(object, object)⬈

Constructors

BOOSEInterpreterGUI()

GUI constructor which initialises all elements of the program: It creates the bitmap canvas to be drawn on, A Command Factory to create the corresponding objects of all valid commands, a stored program to store a program of Command objects and a parser to split given commands into command types and parameters.

```
public BOOSEInterpreterGUI()
```

Methods

Dispose(bool)

Clean up any resources being used.

```
protected override void Dispose(bool disposing)
```

Parameters

disposing [bool](⧉)

true if managed resources should be disposed; otherwise, false.