

Namespace Core

Classes

[Canvas](#)

[Parser](#)

[StoredProgramExecutor](#)

[Token](#)

[Tokeniser](#)

Class Canvas

Namespace: [Core](#)

Assembly: Core.dll

```
public class Canvas : ICanvas
```








Inheritance

[object](#)  ← Canvas

Implements

[ICanvas](#)

Inherited Members

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

Constructors

Canvas(int, int)

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

Parameters

width [int](#) 

height [int](#) 

Canvas(Panel)

```
public Canvas(Panel panel)
```

Parameters

panel [Panel](#) 

Properties

BackgroundColour

```
public Color BackgroundColour { get; set; }
```

Property Value

[Color](#)

Bounds

```
public Rectangle Bounds { get; }
```

Property Value

[Rectangle](#)

GraphicsBuffer

```
public BufferedGraphics GraphicsBuffer { get; }
```

Property Value

[BufferedGraphics](#)

GraphicsBufferContext

```
public BufferedGraphicsContext GraphicsBufferContext { get; }
```

Property Value

IsPainting

```
public bool IsPainting { get; set; }
```

Property Value

[bool](#)

IsPenDown

```
public bool IsPenDown { get; set; }
```

Property Value

[bool](#)

Pen

```
public Pen Pen { get; }
```

Property Value

[Pen](#)

PenColour

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

Property Value

[Color](#)

PenPosition

```
public Point PenPosition { get; set; }
```

Property Value

[Point](#)

Methods

Clear()

```
public void Clear()
```

Clear(Color)

```
public void Clear(Color colour)
```

Parameters

colour [Color](#)

FreeDraw(int, int)

```
public void FreeDraw(int xPos, int yPos)
```

Parameters

xPos [int](#)

yPos [int](#)

Reset()

```
public void Reset()
```

Class Parser

Namespace: [Core](#)








Assembly: Core.dll

```
public class Parser
```

Inheritance

[object](#)  ← Parser

Inherited Members

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

Methods

parseLine(string)

Takes a line and returns the trimmed result

```
public string parseLine(string line)
```

Parameters

line [string](#) 

The line as a string

Returns

[string](#) 

The cleaned up string

parseLines(string)

Takes a multi-line query and splits it into multiple, trimmed lines

```
public List<string> parseLines(string lines)
```

Parameters

lines [string](#)

One string containing all lines

Returns

[List](#) <[string](#)>

An array of strings, each containing one line


Class StoredProgramExecutor

Namespace: [Core](#)








Assembly: Core.dll

```
public class StoredProgramExecutor
```

Inheritance

[object](#)  ← StoredProgramExecutor

Inherited Members

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

Constructors

StoredProgramExecutor(Canvas)

```
public StoredProgramExecutor(Canvas canvas)
```

Parameters

canvas [Canvas](#)

Methods

Execute(string)

```
public CommandResult Execute(string lines)
```

Parameters

lines [string](#) 

Returns

Class Token

Namespace: [Core](#)







Assembly: Core.dll

```
public class Token
```

Inheritance

[object](#)  ← Token

Inherited Members

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

Constructors

Token(TokenType, string)

Constructor for all token objects

```
public Token(TokenType type, string value)
```

Parameters

type [TokenType](#)

The type of token being created

value [string](#) 

A string formatted value for the token to contain

Properties

Type

```
public TokenType Type { get; }
```

Property Value

[TokenType](#)

Value

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

Property Value

[string](#)

Methods

ToString()

A function for converting the object values to string form

```
public override string ToString()
```

Returns

[string](#)

A formatted string containing the contents of the token

Class Tokeniser

Namespace: [Core](#)








Assembly: Core.dll

```
public class Tokeniser
```

Inheritance

[object](#)  ← Tokeniser

Inherited Members

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

Constructors

Tokeniser(Canvas)

Class constructor builds a list of commands as well as the regex named groups used for converting lines into tokens

```
public Tokeniser(Canvas canvas)
```

Parameters

canvas [Canvas](#)

Methods

Tokenise(string)

Takes a line and returns a series of token objects for evaluation of user input

```
public List<Token> Tokenise(string line)
```

Parameters

line [string](#)

A line from the user-given script as a string

Returns

[List](#) <[Token](#)>

A list of token objects for the evaluator to run/validate

Exceptions

[TokeniserException](#)

Namespace Core.Commands

Classes

[Circle](#)

[Clear](#)

[DrawTo](#)

[MoveTo](#)

[Peek](#)

[Poke](#)

[Rectangle](#)

[Triangle](#)

Class Circle

Namespace: [Core.Commands](#)

Assembly: Core.dll

```
public class Circle : ICommand
```

Inheritance

[object](#) ← Circle

Implements

[ICommand](#)

Inherited Members

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

Constructors

Circle(Canvas)

Constructor for the circle command Contains information about the command itself

```
public Circle(Canvas canvas)
```

Parameters

canvas [Canvas](#)

Properties

Description

```
public string Description { get; }
```

Property Value

[string](#)

Name

```
public string Name { get; }
```

Property Value

[string](#)

Usage

```
public string Usage { get; }
```

Property Value

[string](#)

Methods

Execute(List<object>)

The method which will be invoked when the command is run

```
public CommandResult Execute(List<object> parameters)
```

Parameters

parameters [List](#) <[object](#)>

A list of objects for parsing in the function which may be used when running the command

Returns

[CommandResult](#)

Result of whether the command was successful or not

Class Clear

Namespace: [Core.Commands](#)

Assembly: Core.dll

```
public class Clear : ICommand
```








Inheritance

[object](#)  ← Clear

Implements

[ICommand](#)

Inherited Members

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

Constructors

Clear(Canvas)

```
public Clear(Canvas canvas)
```

Parameters

canvas [Canvas](#)

Properties

Description

```
public string Description { get; }
```

Property Value

[string](#) 

Name

```
public string Name { get; }
```

Property Value

[string](#)

Usage

```
public string Usage { get; }
```

Property Value

[string](#)

Methods

Execute(List<object>)

```
public CommandResult Execute(List<object> parameters)
```

Parameters

parameters [List](#) <[object](#)>

Returns

[CommandResult](#)

Class DrawTo

Namespace: [Core.Commands](#)

Assembly: Core.dll

```
public class DrawTo : ICommand
```








Inheritance

[object](#)  ← DrawTo

Implements

[ICommand](#)

Inherited Members

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

Constructors

DrawTo(Canvas)

```
public DrawTo(Canvas canvas)
```

Parameters

canvas [Canvas](#)

Properties

Description

```
public string Description { get; }
```

Property Value

[string](#) 

Name

```
public string Name { get; }
```

Property Value

[string](#)

Usage

```
public string Usage { get; }
```

Property Value

[string](#)

Methods

Execute(List<object>)

```
public CommandResult Execute(List<object> parameters)
```

Parameters

parameters [List](#) <[object](#)>

Returns

[CommandResult](#)

Class MoveTo

Namespace: [Core.Commands](#)

Assembly: Core.dll

```
public class MoveTo : ICommand
```

Inheritance

[object](#) ← MoveTo

Implements

[ICommand](#)

Inherited Members

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

Constructors

MoveTo(Canvas)

```
public MoveTo(Canvas canvas)
```

Parameters

canvas [Canvas](#)

Properties

Description

```
public string Description { get; }
```

Property Value

[string](#)

Name

```
public string Name { get; }
```

Property Value

[string](#)

Usage

```
public string Usage { get; }
```

Property Value

[string](#)

Methods

Execute(List<object>)

```
public CommandResult Execute(List<object> parameters)
```

Parameters

parameters [List](#) <[object](#)>

Returns

[CommandResult](#)

Class Peek

Namespace: [Core.Commands](#)

Assembly: Core.dll

```
public class Peek : ICommand
```








Inheritance

[object](#)  ← Peek

Implements

[ICommand](#)

Inherited Members

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

Constructors

Peek(Canvas)

```
public Peek(Canvas canvas)
```

Parameters

canvas [Canvas](#)

Properties

Description

```
public string Description { get; }
```

Property Value

[string](#) 

Name

```
public string Name { get; }
```

Property Value

[string](#)

Usage

```
public string Usage { get; }
```

Property Value

[string](#)

Methods

Execute(List<object>)

```
public CommandResult Execute(List<object> parameters)
```

Parameters

parameters [List](#) <[object](#)>

Returns

[CommandResult](#)

Class Poke

Namespace: [Core.Commands](#)

Assembly: Core.dll

```
public class Poke : ICommand
```








Inheritance

[object](#)  ← Poke

Implements

[ICommand](#)

Inherited Members

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

Constructors

Poke(Canvas)

```
public Poke(Canvas canvas)
```

Parameters

canvas [Canvas](#)

Properties

Description

```
public string Description { get; }
```

Property Value

[string](#) 

Name

```
public string Name { get; }
```

Property Value

[string](#)

Usage

```
public string Usage { get; }
```

Property Value

[string](#)

Methods

Execute(List<object>)

```
public CommandResult Execute(List<object> parameters)
```

Parameters

parameters [List](#) <[object](#)>

Returns

[CommandResult](#)

Class Rectangle

Namespace: [Core.Commands](#)

Assembly: Core.dll

```
public class Rectangle : ICommand
```

Inheritance

[object](#) ← Rectangle

Implements

[ICommand](#)

Inherited Members

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

Constructors

Rectangle(Canvas)

```
public Rectangle(Canvas canvas)
```

Parameters

canvas [Canvas](#)

Properties

Description

```
public string Description { get; }
```

Property Value

[string](#)

Name

```
public string Name { get; }
```

Property Value

[string](#)

Usage

```
public string Usage { get; }
```

Property Value

[string](#)

Methods

Execute(List<object>)

```
public CommandResult Execute(List<object> parameters)
```

Parameters

parameters [List](#) <[object](#)>

Returns

[CommandResult](#)

Class Triangle

Namespace: [Core.Commands](#)

Assembly: Core.dll

```
public class Triangle : ICommand
```








Inheritance

[object](#)  ← Triangle

Implements

[ICommand](#)

Inherited Members

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

Constructors

Triangle(Canvas)

```
public Triangle(Canvas canvas)
```

Parameters

canvas [Canvas](#)

Properties

Description

```
public string Description { get; }
```

Property Value

[string](#) 

Name

```
public string Name { get; }
```

Property Value

[string](#)

Usage

```
public string Usage { get; }
```

Property Value

[string](#)

Methods

Execute(List<object>)

```
public CommandResult Execute(List<object> parameters)
```

Parameters

parameters [List](#) <[object](#)>

Returns

[CommandResult](#)

Namespace Core.Enums

Classes

[CommandsList](#)

Enums

[CommandResult](#)

[PatternType](#)

[TokenType](#)

Enum CommandResult

Namespace: [Core.Enums](#)

Assembly: Core.dll

```
public enum CommandResult
```

Fields

```
Error = -1
```

```
Finished = 2
```

```
Success = 1
```

Class CommandsList

Namespace: [Core.Enums](#)

Assembly: Core.dll

```
public class CommandsList
```

Inheritance

[object](#) ← CommandsList

Inherited Members

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

Constructors

CommandsList(Canvas)

```
public CommandsList(Canvas canvas)
```

Parameters

canvas [Canvas](#)

Fields

commands

```
public Dictionary<string, ICommand> commands
```

Field Value

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

Properties

commandsRegex

```
public string commandsRegex { get; set; }
```

Property Value

[string](#)[↗]

Methods

AddCommand(ICommand)

```
public void AddCommand(ICommand command)
```

Parameters

command [ICommand](#)

getCommandsRegex()

```
public string getCommandsRegex()
```

Returns

[string](#)[↗]

Enum PatternType

Namespace: [Core.Enums](#)

Assembly: Core.dll

```
public enum PatternType
```

Fields

```
assignment = 0
```

```
call = 1
```

```
condition = 3
```

```
expression = 2
```

```
invalid = -1
```

```
iteration = 4
```

Enum TokenType

Namespace: [Core.Enums](#)

Assembly: Core.dll

```
public enum TokenType
```

Fields

```
command = 0
```

```
conditional = 1
```

```
integer = 5
```

```
invalid = -1
```

```
iteration = 2
```

```
operation = 7
```

```
punctuation = 8
```

```
real = 6
```

```
variableName = 4
```

```
variableType = 3
```

Namespace Core.Evaluators

Classes

[ExpressionEvaluator](#)

[TokenEvaluator](#)

Class ExpressionEvaluator

Namespace: [Core.Evaluators](#)

Assembly: Core.dll

```
public class ExpressionEvaluator
```

Inheritance

[object](#) ← ExpressionEvaluator

Inherited Members

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

Methods

EvaluateExpression(List<Token>, ref int)

An implementation of expression evaluation without memory of previously assigned variables

```
public double EvaluateExpression(List<Token> tokens, ref int index)
```

Parameters

tokens [List](#) <[Token](#)>

Expession tokens to be evaluated

index [int](#)

Current index within the list of tokens, as a reference so they aren't double parsed elsewhere

Returns

[double](#)

Float result of the evaluation

EvaluateExpression(List<Token>, ref int, Dictionary<string, double>)

A polyorphic implementation of expression evaluation that allows for a variable list to be passed this enables variable resolution for previously assigned variables

```
public double EvaluateExpression(List<Token> tokens, ref int index, Dictionary<string, double> variables)
```

Parameters

tokens [List](#) <[Token](#)>

Expression tokens to be evaluated

index [int](#)

Current index within the list of tokens, as a reference so they aren't double parsed elsewhere

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

A list of previously assigned variables

Returns

[double](#)

Float result of the evaluation

Class TokenEvaluator

Namespace: [Core.Evaluators](#)

Assembly: Core.dll

```
public class TokenEvaluator
```

Inheritance

[object](#) ← TokenEvaluator

Inherited Members

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

Constructors

TokenEvaluator(Canvas)

```
public TokenEvaluator(Canvas canvas)
```

Parameters

canvas [Canvas](#)

Fields

variables

```
public Dictionary<string, double> variables
```

Field Value

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

Methods

Execute(List<Token>)

Evaluates and execute a list of tokens

```
public CommandResult Execute(List<Token> tokens)
```

Parameters

tokens [List](#) <[Token](#)>

List of tokens to evaluate

Returns

[CommandResult](#)

Returns result of final command, this indicates that the program was successfully run and did not fail early

Namespace Core.Exceptions

Classes

[BooseException](#)

[CanvasException](#)

[CommandException](#)

[ParserException](#)

[StoredProgramException](#)

[TokeniserException](#)

[VariableException](#)

Class BoozeException

Namespace: [Core.Exceptions](#)

Assembly: Core.dll

```
public class BoozeException : Exception, ISerializable
```

Inheritance

[object](#) ← [Exception](#) ← BoozeException

Implements

[ISerializable](#)

Derived

[CanvasException](#), [CommandException](#), [ParserException](#), [StoredProgramException](#), [TokeniserException](#), [VariableException](#)

Inherited Members

[Exception.GetBaseException\(\)](#), [Exception.GetType\(\)](#), [Exception.ToString\(\)](#), [Exception.Data](#), [Exception.HelpLink](#), [Exception.HResult](#), [Exception.InnerException](#), [Exception.Message](#), [Exception.Source](#), [Exception.StackTrace](#), [Exception.TargetSite](#), [Exception.SerializeObjectState](#), [object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#)

Constructors

BoozeException(string)

```
public BoozeException(string message)
```

Parameters

message [string](#)

Class CanvasException

Namespace: [Core.Exceptions](#)

Assembly: Core.dll

```
public class CanvasException : BoozeException, ISerializable
```

Inheritance

[object](#) ← [Exception](#) ← [BoozeException](#) ← CanvasException

Implements

[ISerializable](#)

Inherited Members

[Exception.GetBaseException\(\)](#), [Exception.GetType\(\)](#), [Exception.ToString\(\)](#), [Exception.Data](#), [Exception.HelpLink](#), [Exception.HResult](#), [Exception.InnerException](#), [Exception.Message](#), [Exception.Source](#), [Exception.StackTrace](#), [Exception.TargetSite](#), [Exception.SerializeObjectState](#), [object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#)

Constructors

CanvasException(string)

```
public CanvasException(string message)
```

Parameters

message [string](#)

Class CommandException

Namespace: [Core.Exceptions](#)

Assembly: Core.dll

```
public class CommandException : BusinessException, ISerializable
```

Inheritance

[object](#) ← [Exception](#) ← [BusinessException](#) ← CommandException

Implements

[ISerializable](#)

Inherited Members

[Exception.GetBaseException\(\)](#), [Exception.GetType\(\)](#), [Exception.ToString\(\)](#), [Exception.Data](#), [Exception.HelpLink](#), [Exception.HResult](#), [Exception.InnerException](#), [Exception.Message](#), [Exception.Source](#), [Exception.StackTrace](#), [Exception.TargetSite](#), [Exception.SerializeObjectState](#), [object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#)

Constructors

CommandException(string)

```
public CommandException(string message)
```

Parameters

message [string](#)

Class ParserException

Namespace: [Core.Exceptions](#)

Assembly: Core.dll

```
public class ParserException : BoozeException, ISerializable
```

Inheritance

[object](#) ← [Exception](#) ← [BoozeException](#) ← ParserException

Implements

[ISerializable](#)

Inherited Members

[Exception.GetBaseException\(\)](#), [Exception.GetType\(\)](#), [Exception.ToString\(\)](#), [Exception.Data](#), [Exception.HelpLink](#), [Exception.HResult](#), [Exception.InnerException](#), [Exception.Message](#), [Exception.Source](#), [Exception.StackTrace](#), [Exception.TargetSite](#), [Exception.SerializeObjectState](#), [object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#)

Constructors

ParserException(string)

```
public ParserException(string message)
```

Parameters

message [string](#)

Class StoredProgramException

Namespace: [Core.Exceptions](#)

Assembly: Core.dll

```
public class StoredProgramException : BoozeException, ISerializable
```

Inheritance

[object](#) ← [Exception](#) ← [BoozeException](#) ← StoredProgramException

Implements

[ISerializable](#)

Inherited Members

[Exception.GetBaseException\(\)](#), [Exception.GetType\(\)](#), [Exception.ToString\(\)](#), [Exception.Data](#), [Exception.HelpLink](#), [Exception.HResult](#), [Exception.InnerException](#), [Exception.Message](#), [Exception.Source](#), [Exception.StackTrace](#), [Exception.TargetSite](#), [Exception.SerializeObjectState](#), [object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#)

Constructors

StoredProgramException(string)

```
public StoredProgramException(string message)
```

Parameters

message [string](#)

Class TokeniserException

Namespace: [Core.Exceptions](#)

Assembly: Core.dll

```
public class TokeniserException : BoozeException, ISerializable
```

Inheritance

[object](#) ← [Exception](#) ← [BoozeException](#) ← TokeniserException

Implements

[ISerializable](#)

Inherited Members

[Exception.GetBaseException\(\)](#), [Exception.GetType\(\)](#), [Exception.ToString\(\)](#), [Exception.Data](#), [Exception.HelpLink](#), [Exception.HResult](#), [Exception.InnerException](#), [Exception.Message](#), [Exception.Source](#), [Exception.StackTrace](#), [Exception.TargetSite](#), [Exception.SerializeObjectState](#), [object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#)

Constructors

TokeniserException(string)

```
public TokeniserException(string message)
```

Parameters

message [string](#)

Class VariableException

Namespace: [Core.Exceptions](#)

Assembly: Core.dll

```
public class VariableException : BoozeException, ISerializable
```

Inheritance

[object](#) ← [Exception](#) ← [BoozeException](#) ← VariableException

Implements

[ISerializable](#)

Inherited Members

[Exception.GetBaseException\(\)](#), [Exception.GetType\(\)](#), [Exception.ToString\(\)](#), [Exception.Data](#), [Exception.HelpLink](#), [Exception.HResult](#), [Exception.InnerException](#), [Exception.Message](#), [Exception.Source](#), [Exception.StackTrace](#), [Exception.TargetSite](#), [Exception.SerializeObjectState](#), [object.Equals\(object\)](#), [object.Equals\(object, object\)](#), [object.GetHashCode\(\)](#), [object.MemberwiseClone\(\)](#), [object.ReferenceEquals\(object, object\)](#)

Constructors

VariableException(string)

```
public VariableException(string message)
```

Parameters

message [string](#)

Namespace Core.Interfaces

Interfaces

[ICanvas](#)

[ICommand](#)

Interface ICanvas

Namespace: [Core.Interfaces](#)

Assembly: Core.dll

```
public interface ICanvas
```

Properties

BackgroundColour

```
Color BackgroundColour { get; set; }
```

Property Value

[Color](#)

Bounds

```
Rectangle Bounds { get; }
```

Property Value

[Rectangle](#)

GraphicsBuffer

```
BufferedGraphics GraphicsBuffer { get; }
```

Property Value

[BufferedGraphics](#)

GraphicsBufferContext

```
BufferedGraphicsContext GraphicsBufferContext { get; }
```

Property Value

[BufferedGraphicsContext](#)

IsPainting

```
bool IsPainting { get; set; }
```

Property Value

[bool](#)

IsPenDown

```
bool IsPenDown { get; set; }
```

Property Value

[bool](#)

Pen

```
Pen Pen { get; }
```

Property Value

[Pen](#)

PenColour

```
Color PenColour { get; set; }
```

Property Value

[Color](#)

PenPosition

```
Point PenPosition { get; set; }
```

Property Value

[Point](#)

Methods

Clear()

```
void Clear()
```

Clear(Color)

```
void Clear(Color colour)
```


Parameters

colour [Color](#)

FreeDraw(int, int)

```
void FreeDraw(int xPos, int yPos)
```

Parameters

xPos [int](#)

yPos [int](#)

Interface ICommand

Namespace: [Core.Interfaces](#)

Assembly: Core.dll

```
public interface ICommand
```

Properties

Description

```
string Description { get; }
```

Property Value

[string](#) 

Name

```
string Name { get; }
```

Property Value

[string](#) 

Usage

```
string Usage { get; }
```

Property Value

[string](#) 

Methods

Execute(List<object>)

CommandResult **Execute**(List<object> parameters)

Parameters

parameters [List](#) <[object](#)>

Returns

[CommandResult](#)

Namespace CoreUnitTest

Classes

[CoreUnitTest](#)

Class CoreUnitTest

Namespace: [CoreUnitTest](#)








Assembly: CoreUnitTest.dll

```
public class CoreUnitTest
```

Inheritance

[object](#)  ← CoreUnitTest

Inherited Members

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

Constructors

CoreUnitTest()

```
public CoreUnitTest()
```

Methods

DrawToTest()

```
[Fact]  
public void DrawToTest()
```

MoveToTest()

```
[Fact]  
public void MoveToTest()
```

MultiLineTest()

```
[Fact]
```

```
public void MultiLineTest()
```

Namespace Frontend

Classes

[MainWindow](#)

Class MainWindow

Namespace: [Frontend](#)

Assembly: Frontend.dll

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

Inheritance

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

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.OnMouseDown\(MouseEventArgs\)](#),
[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

MainWindow()

```
public MainWindow()
```

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.