

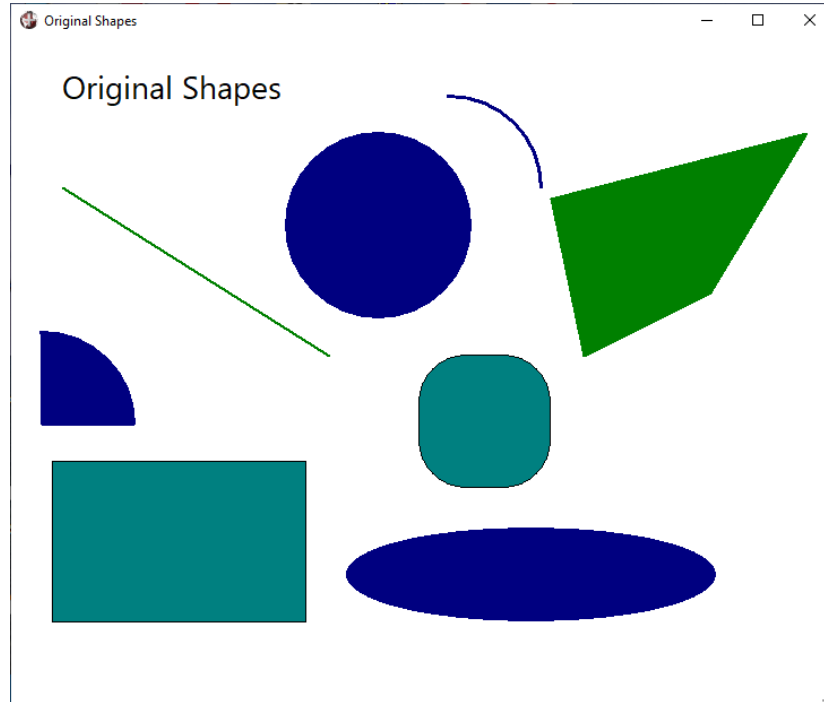
# Shape Controls Enhancements

PxPlus 2019 (v16)

# PxPlus 2018 Shape Controls

## Shape Controls

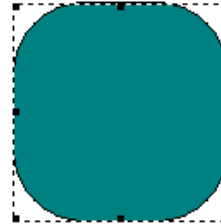
- Arc
- Circle (Ellipse)
- Line
- Pie
- Polygon
- Rectangle (Default)



# Rectangle

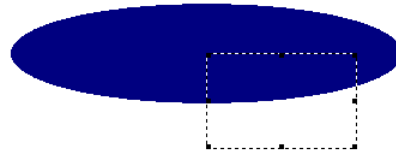
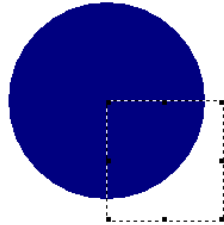
## Shape Controls

- Rectangle Definition: (default shape)
  - Size defined by column, line, width and height of shape drawn in the designer
  - Enter **Pen Style**, **Width** and **Color** (border)
  - Enter **Fill Pattern** and **Fill Color(s)** (two colors if using a gradient)
  - Enter optional **Radius** (rounded corners)



# Original Arc, Circle, Ellipse & Pie

## Shape Controls

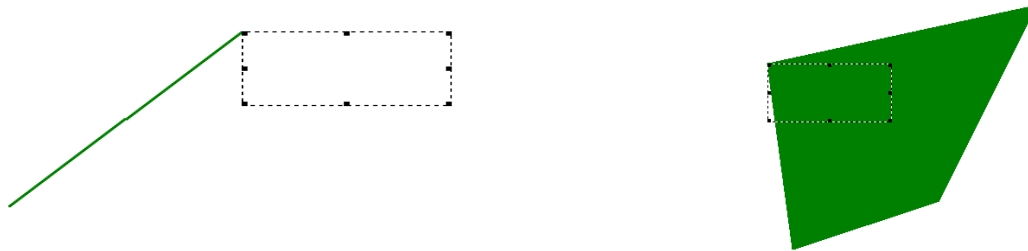


- Original Arc, Circle, Ellipse & Pie definitions:
  - Center defined by column and line of shape drawn in designer (top, left corner)
  - Enter **Pen Style**, **Width** and **Color** (border)
  - Enter **Fill Pattern** and **Fill Color(s)** if not Arc
  - Enter **Radius** and **Ratio** (ratio =1 for Circle)
  - Enter **Angles** if Arc or Pie

# Original Line and Polygon

## Shape Controls

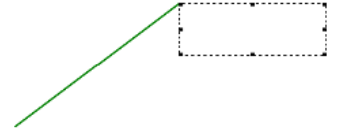
- Original Line and Polygon definitions:
  - Start position defined by column and line of shape drawn in designer (top, left corner)
  - Enter **Pen Style**, **Width** and **Color** (border)
  - Enter **Fill Pattern** and **Fill Colors** if Polygon
  - Enter **X/Y Values** in graphical units (multiple for polygon)



# Problems with Original Shape Controls

## Shape Controls

- Difficult to locate the shape control to edit for all shapes except Rectangles
- Difficult to determine X/Y Values for a Line or Polygon
  - Many use a frame 0 high or 0 wide instead of a horizontal/vertical line
- Hard to estimate the radius needed for the proper size
- Resizing
  - Impossible to resize Lines in *iNomads* because of graphical units in a browser environment
- Font settings with different aspect ratios will result in different locations for the X/Y graphical units used in Lines and Polygons



# New Shape Controls for PxPlus 2019

## Shape Controls

- Re-designed all shapes controls except Rectangles and Polygons
  - Consider using an image or bitmap rather than a polygon
- Kept old definitions for compatibility but renamed them
- Going forward - controls can use the new shape definitions
- Convert functionality
- Resizing logic makes more sense

# Shape Names

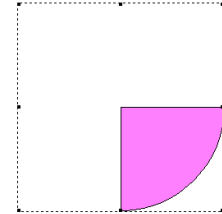
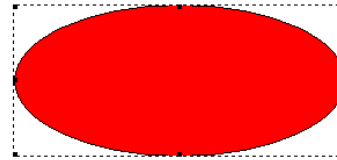
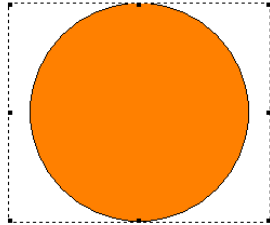
## Shape Controls

PxPlus 2018 Shape	PxPlus 2019 Shape
Rectangle	Rectangle ( <i>unchanged</i> )
Polygon	Polygon ( <i>unchanged</i> )
Radius Arc	Arc
Radius Circle	Circle
Poly Line	Line
Radius Pie	Pie



# New Arc, Circle, Ellipse & Pie

## Shape Controls

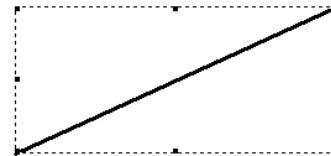
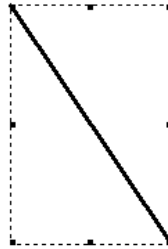
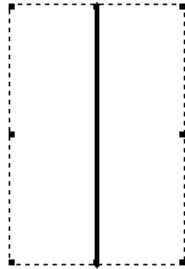
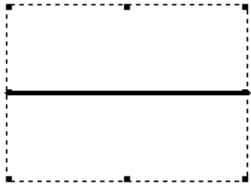


- New Arc, Circle, Ellipse & Pie definitions:
  - Size is defined by rectangle drawn (circle centered in smallest dimension)
  - Enter **Pen Style**, **Width** and **Color** (border)
  - Enter **Fill Pattern** and **Fill Color(s)** if not Arc
  - Enter **Angles** if Arc or Pie
  - Selection of **Circle** or **Ellipse**

# New Lines

## Shape Controls

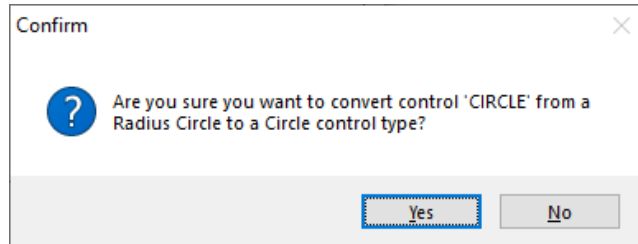
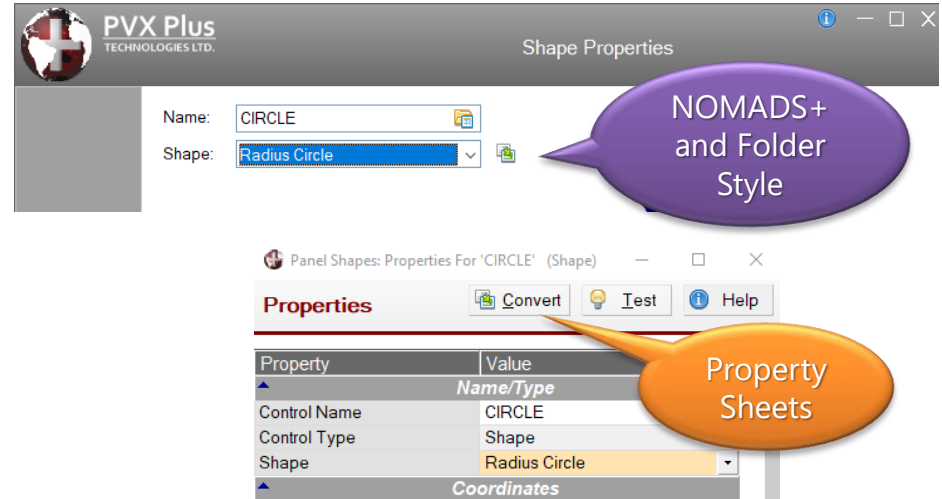
- New Line definition:
  - Size is defined by rectangle drawn
  - Enter **Pen Style**, **Width** and **Color**
  - Selection of **Line Type**
    - Horizontal / Vertical / Down / Up
    - Horizontal and Vertical lines are centered in shape drawn



# Conversion of Shapes

## Shape Controls

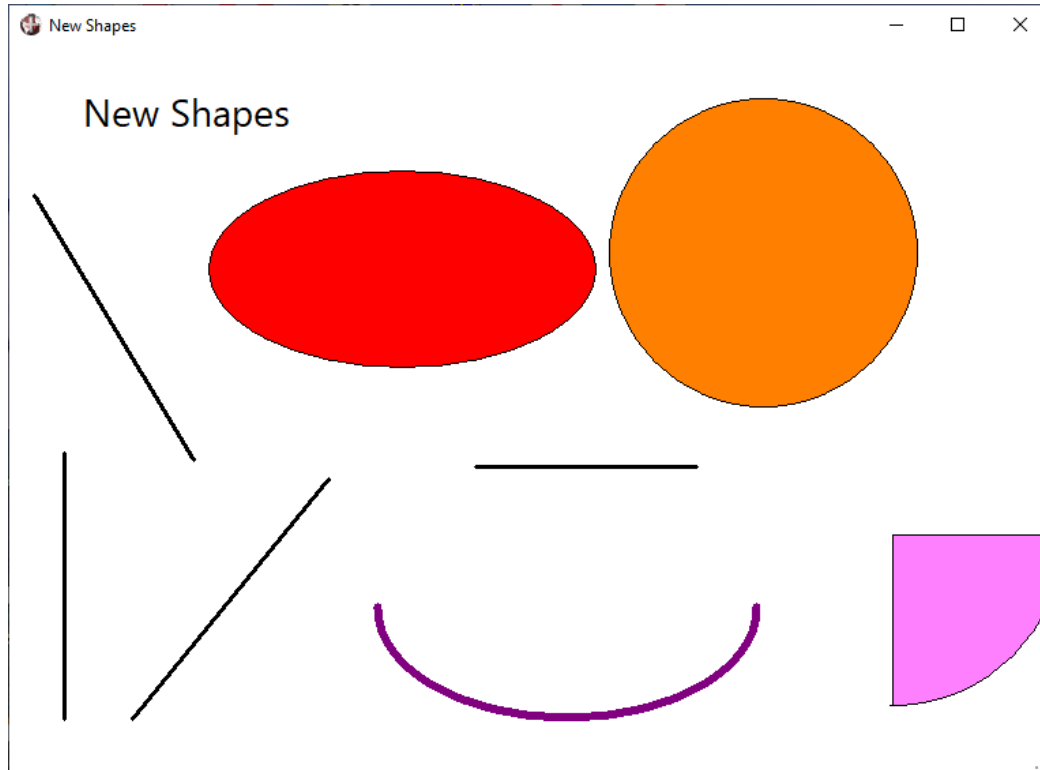
- Conversion button added when shape is Poly Line, Radius Arc, Radius Circle or Radius Pie



- Co-ordinates etc. adjusted so shape appears the same

# New Shape Controls

## Shape Controls



# Advantages of New Shape Controls

## Shape Controls

- Clicking on the shape will always select the control in the designer
- Definition and positioning of shape controls is simplified and more intuitive
- Shapes resize correctly in relation to other controls on the panel
- Lines can now also be resized in *iNomads*
- Fonts with differing aspect ratios will not affect the overall shape of the control rendered (no more graphical units)
- Can still use old controls if desired (Arc, Pie at edge of panel)

# Sample Work Flow Chart

## Shape Controls



# Additional Resources

The help link(s) below refer to the current on-line help pages. The functionality may have been further updated since the PxPlus 2019 (version 16) release.

- [Shape Control](#)
- [Shape Mnemonics](#)