EasyLayout Documentation

Release 1.3.1f1

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CHAPTER 1

EasyLayout

EasyLayout provides different layouts that not available with default layout groups.

1.1 Options

• Main Axis Axis

Determine how elements will be placed (at horizonal or vertical direction first).

- Layout Type Layout Types
 - Compact: Compactly places the elements.
 - Grid: Places elements in the grid. Cell size is not fixed and depend on elements sizes in the same row and column.
 - Flex: Places elements like CSS flexbox layout.
 - Staggered: Places elements one-by-one to the shortest column or row depending on the main axis.
 - Ellipse: Places elements one-by-one on the border of the ellipse or the circle starting from Angle Start and Angle Step distance between items.
- Group Position Anchors

Only for the Compact and Grid layouts.

Combination of horizonal (Left, Center, Right) and vertical (Upper, Middle, Lower) positions.

Elements combine to the group, this option specifies group position relative to the parent.

• Row Align Horizontal Aligns

Only for the Compact layout.

Element position in the row (Left, Center, Right).

• Inner Align InnerAligns

Only for the Compact layout.

Column position relative to the group (Top, Middle, Bottom).

• Compact Constraint CompactConstraints

Only for the Compact layout.

- Flexible: Rows and columns count depends on the parent size.
- Max Column Count
- Max Row Count
- Compact Constraint Count int

Only for the Compact layout.

Max count of the rows or columns for the Compact Constraint option.

• Cell Align Anchors

Only for the Grid layout.

Elements position relative to the cell size. Same as Group Position.

• Grid Constraint GridConstraints

Only for the Grid layout.

- Flexible: Rows and columns count depends on the parent size.
- Fixed Column Count
- Fixed Row Count
- Grid Constraint Count int

Only for the Grid layout.

Count of the rows or columns for the Grid Constraint option.

• Flex Setting EasyLayoutFlexSettings

Only for the Flex layout.

- Wrap bool

If disabled elements will all placed onto one line (row or column).

- Justify Content EasyLayoutFlexSettings.Content

Alignment along the main axis. Also distribute extra free space on the main axis.

- * Start: elements placed at the start of the line.
- * Center: elements placed at the center of the line.
- * End: elements placed at the end of the line.
- * Space Between: first element at the start of the line, last element at the end of the line, other elements placed between them with evenly spacing.
- * Space Around: first and last elements are placed with *In* space from the edges, other elements placed with *2n* space between them.
- * Space Evenly: elements are placed so that the spacing between any two element and the space to the edges is equal.
- Align Content EasyLayoutFlexSettings.Content

Alignment of the lines (columns or rows) along the cross axis. Also distribute extra free space on the cross axis.

- * Start: lines placed to the start of the parent.
- * Center: lines placed to the center of the parent.
- * End: lines placed to the end of the parent.
- * Space Between: first line to the start of the parent, last line to the end of the parent, other lines placed between them with evenly spacing.
- * Space Around: first and last lines are placed with ln space from the edges, other lines placed with 2n space between them.
- * Space Evenly: line are placed so that the spacing between any two lines and the space to the edges is equal.
- Align Items EasyLayoutFlexSettings. Items

Define how elements are placed out along the cross axis on the line (column or row).

- * Start
- * Center
- * End
- Staggered Settings EasyLayoutStaggeredSettings

Only for the Staggered layout.

- Fixed Block Count bool

Count of the rows or columns.

- Blocks Count int
- Ellipse Settings EasyLayoutEllipseSettings

Only for the Ellipse layout.

Set equal width and height for the circle layout.

RectTransform pivot is used as the center of the ellipse.

- Width Auto bool

RectTransform width is used as the width of the ellipse.

- Width float

Ellipse width if Width Auto disabled.

- Height Auto bool

RectTransform height is used as the height of the ellipse.

- Height float

Ellipse height if Height Auto disabled.

- Angle Start float

Position of the first element in the degrees.

- Angle Step Auto bool

Are elements placed with equal angular distance or specified Angle Step?

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- Angle Step float

Elements placed with specified angular distance between neighbour elements.

- Fill EllipseFill

Determines how to calculate the distance between elements if Angle Step Auto enabled.

- * Closed: angular distance is 360 degrees divided into the elements count; distance is the same between the first and last elements.
- * Arc: angular distance is arc length divided into the elements count minus one
- Arc Length float

Distance between first and last elements if Angle Step Auto enabled and Fill is Arc.

Can be more than 360 degrees.

- Align EllipseAlign

Determines how elements are placed on the ellipse border.

- * Outer: right borders of the elements are placed on the ellipse border.
- * Center: center of the elements are placed on the ellipse border.
- * Inner: left borders of the elements are placed on the ellipse border.
- ElementsRotate bool

Rotate elements according to position or not.

- ElementsRotationStart float

Initial rotation of the elements.

• Spacing Vector2

Empty space between elements.

Can be more than specified value for Flex layout.

• Symmetric bool

Use symmetric margin.

• Margin Vector2

Empty space from parent edges.

• Skip Inactive bool

Do not reserve space for disabled elements.

• Right To Left bool

The order of placement of elements.

• Top To Bottom bool

The order of placement of elements.

• ResetRotation bool

Reset rotation of the elements to 0.

• Children Width Children Size

- Do nothing: do not resize elements.
- Set Preferred: set element width to Preferred Width.
- Set Max From Preferred: set maximum of the Preferred Width from the all elements.
- Fit Container: increase elements width proportionally Flexible Width to fit parent width.
- Shrink On Overflow: decrease elements width if summary width more than parent width with margin.
- Children Height ChildrenSize

Similar to Children Width

1.2 Events

• Settings Changed UnityEvent

Event, raised after any setting was changed.

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CHAPTER 2

Layout Switcher

Allow to create different layouts with same GameObjects for different screen sizes and aspect ratios. Used when anchros, pivots and layout group not enough to create layout with different aspect ratios support.

Save values of the position, size, anchors, pivot, rotation, scale, active/disable state for each layout.

Options

- Objects: list of the controlled objects.
- Default Display Size (inches): display size to use when actual display size cannot be detected.
- Layouts: list of the layouts.
 - Name: layout name.
 - Aspect Ratio: aspect ratio for this layout.
 - Max Display Size (inches): maximum size of the display for this layout (layout will not be used if display size more than specified).

CHAPTER 3

Changelog

3.1 Release 1.3.1

• EasyLayout: added ElementsRotate and ElementsRotationStart for Ellipse layout

3.2 Release 1.3.0

- added EasyLayoutEllipseScroll
- EasyLayout: added new layout type Ellipse
- EasyLayout: added new option ResetRotation

3.3 Release 1.2.1

• fixed FitContainer option

3.4 Release 1.2.0

- · added Flex layout type
- added Staggered layout type
- · renamed Stacking to MainAxis
- · reduced memory allocations
- EasyLayout namespace renamed to EasyLayoutNS to avoid problems with Unity 2018.2 and later
- fixed "dirty" scene bug when using FitContainer or ShrinkOnOverflow
- · added Shrink on Overflow option
- added CompactConstraint and CompactConstraintCount options
- added row/column constraint for Grid layout

3.5 Release 1.1.1

• improved compatibility with Unity 2017.x

3.6 Release 1.1.0

- bug fixes
- performance improvements

3.7 Release 1.0.5

• bug fixes.

3.8 Release 1.0.4

- improved performance
- bug fixes.

3.9 Release 1.0.3

• renamed to EasyLayout