Mesh Chart ver 1.0 for Unity

menu

Line chart

Bar chart

Pie chart

Doughnut chart

Cobweb chart

Chart of Frame

What's Mesh Chart?

Mesh Chart is one of assets for Unity. It can render many type of chart as 3D mesh. Types of chart, which Mesh Chart can render, are as follows,

- Line chart
- · Bar chart
- Pie chart
- Doughnut chart
- Cobweb chart

Each chart will be placed by prefab. Developer can control chart style by setting Data's parameter, which each chart prefab contains. The prefab contains game object Data. Game object Data contains instance of Chart class which extends MonoBehavior. Chart class also has method UpdateData(float[]) and UpdateData(float[]]). Developer make a code to refer instance of Chart class and set data by calling UpdateData method so that the chart view will be updated. You can also refer Assets/MeshChart/SampleMeshChart/* as sample scene/script.

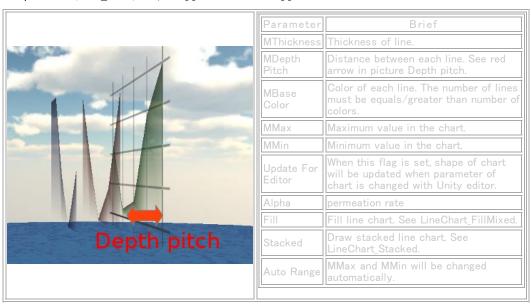
Line chart

LineChart class extends Chart class. Prefabs, which contains LineChart, are under Assets/Prefab/LineChart.

In UpdateData(float \square data) call, data[X][t] means the value[t] in Xth line. data[X].Length must be same for each X.

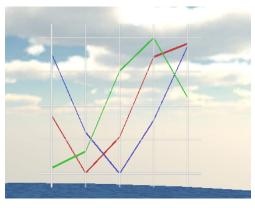
Parameter

In UpdateData(float[] data) call, data[t] means the value[t] in 1st line.

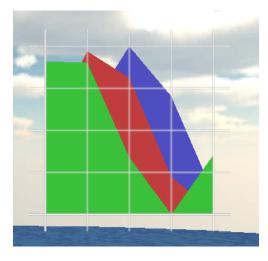


Style

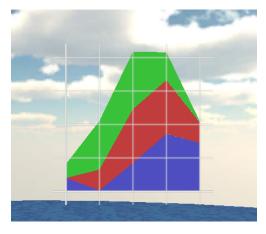
 $LineChart_Line$



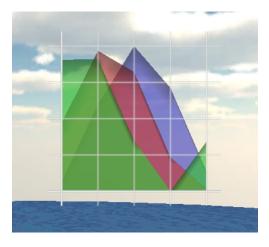
 $LineChart_Fill$



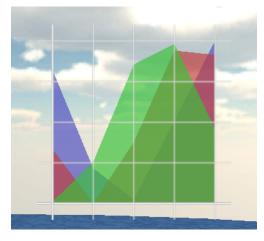
 $LineChart_Stacked$



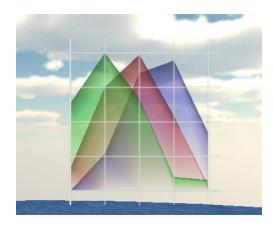
LineChart_FillMat



 $LineChart_FillMixed$



 $LineChart_FillSlim$

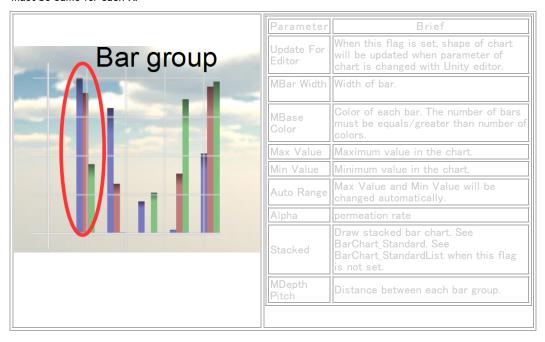


Bar chart

BarChart class extends Chart class. Prefabs, which contains BarChart, are under Assets/Prefab/BarChart.

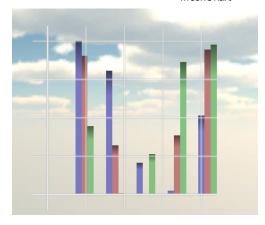
Parameter

In UpdateData(float[][] data) call, data[X][Y] means the value in Xth bar in bar group Y. data[Y].Length must be same for each X.

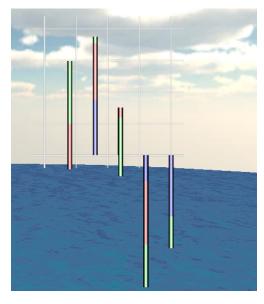


Style

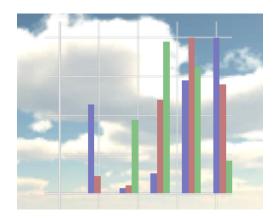
 ${\tt BarChart_DarkList}$



 ${\tt BarChart_Standard}$



 $BarChart_StandardList$



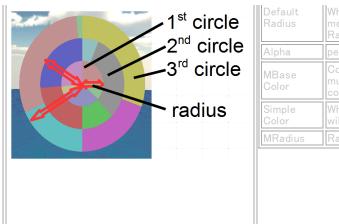
Pie chart

PieChart class extends Chart class. Prefabs, which contains PieChart, are under Assets/Prefab/PieChart.

Parameter

In UpdateData(float \square data) call, data[Y][X] means the value in Xth part of Yth circle. data[Y].Length must be same for each X.

| Parameter | Brief |
|-----------------|-------------------------------------------------------------------------------------------------------------|
| | When this flag is set, shape of chart will be updated when parameter of chart is changed with Unity editor. |
| | Each circle is divided into MDiv pies. High MDiv makes smooth pie chart and high cost. |
| MDepth Pitch | Distance between each circle. |
| | |



| Default Radius | When MRadius[i] is invalid, MRadius[i] means MRadius[i-1] + (Default Radius). |
|-------------------|-------------------------------------------------------------------------------------|
| Alpha | permeation rate |
| MBase Color | Color of each bar. The number of bars must be equals/greater than number of colors. |
| Simple Color | When MBase Color is null, this chart will be gradation. |
| MRadius | Radius of Nth circle. |

Style

 $PieChart_Standard$

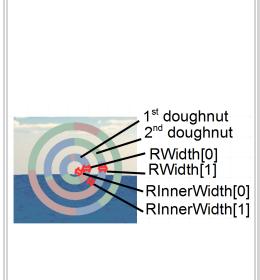


Doughnut chart

DoughnutChart class extends Chart class. Prefabs, which contains DoughnutChart, are under Assets/Prefab/DoughnutChart.

Parameter

In UpdateData(float \square data) call, data[Y][X] means the value in Xth part of Yth circle. data[Y].Length must be same for each X.

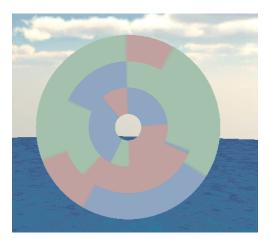


| Parameter | Brief | | |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Update For Editor | When this flag is set, shape of chart will be updated when parameter of chart is changed with Unity editor. | | |
| MDiv | Each circle is divided into MDiv pies. High MDiv makes smooth pie chart and high cost. | | |
| MBase Color | Color of each bar. The number of bars must be equals/greater than number of colors. | | |
| RWidth | Width of Nth doughnut. | | |
| RInnerWidth | Width Between Nth doughnut and (N-1)th doughnut. | | |
| MDepth Pitch | Distance between each doughnut. | | |
| Simple Color | When MBase Color is null, this chart will be gradation. | | |
| Default Radius | When RWidth[i] is invalid, RWidth[i] means Default Radius. | | |
| Default First Inner Radius | When RInnerWidth[0] is invalid, RInnerWidth[0] means Default First Inner Radius. When RInnerWidth[x] (x >= 0) is invalid, RInnerWidth[x] means 0. | | |

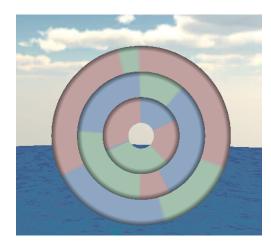
Alpha permeation rate

Style

 ${\tt DoughnutChart_Standard}$



 ${\tt DoughnutChart_Mat}$



DoughnutChart_Ring



 ${\tt DoughnutChart_Separated}$

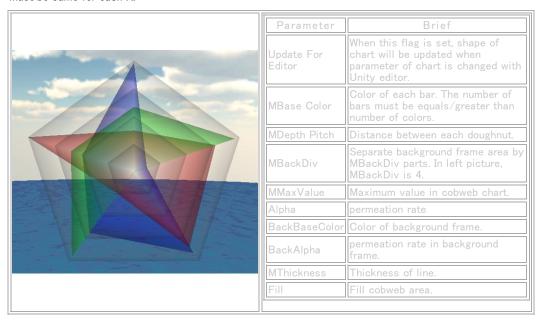


Cobweb chart

CobwebChart class extends Chart class. Prefabs, which contains CobwebChart, are under Assets/Prefab/CobwebChart.

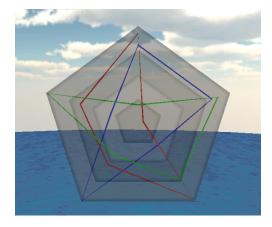
Parameter

In UpdateData(float[]] data) call, data[Y][X] means the value in Xth corner of Yth cobweb. data[Y].Length must be same for each X.

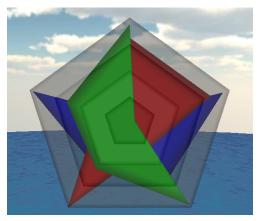


Style

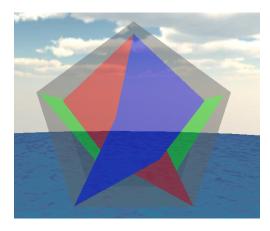
CobwebChart_LineStandard



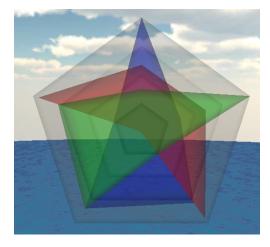
CobwebChart_Filled_Standard



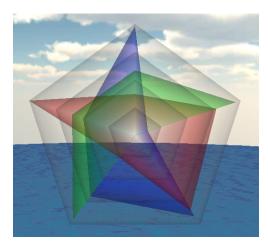
 ${\tt CobwebChart_FillMat}$



 ${\tt CobwebChart_FillMixed}$



 ${\tt CobwebChart_FillSlim}$



Frame for chart

contains ChartFrame script.

Parameter

ChartFrame has a method UpdateData(int row, int col) to create frame for chart.

