Difference between DataList and Repeater

DataList

Repeater

Rendered as Table.

Template driven.

Automatically generates columns from the data source.

This features is not supported.

Selection of row is supported.

Selection of row is not supported.

Editing of contents is supported.

Editing of contents is not supported.

You can arrange data items horizontally or vertically in DataList by using property RepeatDirection.

This features is not supported.

Performance is slow as compared to Repeater

This is very light weight and fast data control among all the data control.

Difference between GridView and Repeater

GridView

Repeater

It was introduced with Asp.Net 2.0.

It was introduced with Asp.Net 1.0.

Rendered as Table.

Template driven.

Automatically generates columns from the data source.

This features is not supported.

Selection of row is supported.

Selection of row is not supported.

Editing of contents is supported.

Editing of contents is not supported.

Built-in Paging and Sorting is provided.

You need to write custom code.

Supports auto format or style features.

This has no this features.

Performance is very slow as compared to Repeater.

This is very light weight and fast data control among all the data control.

Difference between GridView and DataList

GridView

DataList

It was introduced with Asp.Net 2.0.

It was introduced with Asp.Net 1.0.

Built-in Paging and Sorting is provided.

You need to write custom code.

Built-in supports for Update and Delete operations.

Need to write code for implementing Update and Delete operations.

Supports auto format or style features.

This features is not supported.

RepeatDirection property is not supported.

You can arrange data items horizontally or vertically in DataList by using property RepeatDirection.

Doesn’t support customizable row separator.

Supports customizable row separator by using SeparatorTemplate.

Performance is slow as compared to DataList.

Performance is fast is compared to GridView.

Repeater control is derived from Control class. Repeater simply repeats data given in templates. Repeated data is usually HTML code mixed with records from data source. Repeater's output is not predefined. Because of that, Repeater demands most work to define template. In return it gives us most flexibility to build layout and optimize presentation.

With same template and same data set, Repeater usually works faster of DataList or GridView controls. This is mostly because of DataReader class, which is used for read only access. DataReader is faster than DataSet or DataTable classes commonly used with GridView.

Compared to GridView and DataList control, Repeater has limited features. By default, Repeater is good for displaying of data. It is not best choice if you need editing of data. Also, by default it doesn't provide paging and sorting of records.

**DataList control features**

Unlike Repeater, DataList control is derived from WebControl class. That gives it a number of style properties like BorderStyle, BackColor, ForeColor etc.

DataList is somewhere between Repeater and GridView, in many ways looks like a compromise between these two. DataList has more features but more limited in design when compared to Repeater. In the other hand, it has more flexibility and less features than GridView.

Also, DataList has RepeatDirection, RepeatColumns and RepeatLayout properties, which are unique for DataList control. These properties are useful when you need to create presentation with more than one record per row, like image gallery, product catalog etc. For example, let say you are creating an image gallery and want to show 5 images per row. Repeater would require checking of record position and manipulating HTML. With DataList, just use RepeatDirection="Horizontal" and RepeatColumns="5".

**Gridview**-GridView allows us to present the data in the tabular format as when the data in GridView renders, it by default renders in table, tr and td. Limited in design, works like an html table. More in built functionality like edit/update, page, sort. Lots of overhead. The Grid View control provides the capability to sort columns, page through data, and edit or delete a single record. the Grid View control offers improvements such as the ability to define multiple primary key fields, improved user interface customization using bound fields and templates, and a new model for handling or canceling events.

**GridView :**It contains Header Template, Item template , alternate Item template , Edit itmtemplate and footer template . it can support selection, editing , sorting and paging . Mostly every developer caught used this control .

Features of a GridView

•Displays data as a table

•Control over

–Alternate item

–Header

–Footer

–Colors, font, borders, etc.

–Paging

•Updateable

•Item as row

* DataGrid – Old version of the Gridview. A gridview is a super datagrid.

**Datalist**-Data list also displays data in a table but gives some flexibility in terms of displaying data row wise and column wise using the repeat direction property customisable version of the Gridview. Also has some overhead. More manual work as you have to design it yourself. You can configure the DataList control to enable users to edit or delete a record in the table. The DataList control differs from the Repeater control in that the DataList control explicitly places items in an HTML table, where as the Repeater control does not

**Datalist:**It contains Header Template, Item template , alternate Item template , Edit itmtemplate and footer template . It can’t support sorting and paging but support selection and editing

**Features of DataList**

•Directional rendering

•Good for columns

•Item as cell

•Alternate item

•Updateable

Repeater -Repeater control is highly customizable. It does not display data in table by default.Very light weight. No built in functionality like Headers, Footers. Has the least overhead.

The Repeater control does not specify a built-in layout. Instead you create the layout for the Repeater control using templates.

**Repeater :**It contains Header Template, Item template , alternate

Item template and footer template . it can't support

Selection, editing, sorting and paging. this is read only

and fast.

**Features of Repeater**

•List format

•No default output

•More control

•More complexity

•Item as row

•Not updateable

ListView – the new Datalist : Almost a hybrid of the datalist and gridview where you can use paging and build in Gridview like functionality, but have the freedom of design. One of the new controls in this family.