<!DOCTYPE html>

**模块：C# DataTable**
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**版本：V1.0**

## DataTable

Represents one table of in-memory data.

**命名空间**：System.Data
**程序集**：System.Data（位于 System.Data.dll）

### 语法

```
[SerializableAttribute]
public class DataTable : MarshalByValueComponent, IListSource,
  ISupportInitializeNotification, ISupportInitialize, ISerializable,
  IXmlSerializable
```

### 构造函数

**DataTable()**
Initializes a new instance of the DataTable class with no arguments.

```
DataTable dataTable = new DataTable()
```

**DataTable(String)**
Initializes a new instance of the DataTable class with the specified table name.

```
DataTable dataTable = new DataTable("Windy")
```

### 属性

**Columns**
Gets the collection of columns that belong to this table.

**Rows**
Gets the collection of rows that belong to this table.

**PrimaryKey**
Gets or sets an array of columns that function as primary keys for the data table.

**DefaultView**
Indicates or specifies how the CommandText property is interpreted.

**Parameters**
Gets a customized view of the table that may include a filtered view, or a cursor position.

### 方法

**Clear()**
Clears the DataTable of all data.

```
dataTable.Clear()
```

**Clone()**

Clones the structure of the DataTable, including all DataTable schemas and constraints.

```
DataTable table = dataTable.Clone()
```

**ImportRow(DataRow)**

Copies a DataRow into a DataTable, preserving any property settings, as well as original and current values.

```
dataTable.ImportRow(dataRow);
```

**NewRow()**

Creates a new DataRow with the same schema as the table.

```
dataRow = dataTable.NewRow();
```

**Select(String)**

Gets an array of all DataRow objects that match the filter criteria.

```
DataRow[] dataRow = dataTable.Select("Name = 'windy'");
```

## 事件

**ColumnChanged**

Occurs after a value has been changed for the specified DataColumn in a DataRow.

```
private static void Column_Changed(object sender, DataColumnChangeEventArgs e )
{
    if(e.ColumnName == "windy")
  {
   Console.WriteLine("Hello Wrold");
  }
}
```