

# Using field expressions in the Geocortex Report Designer

**Product:** Geocortex Essentials  
**Applies To:** Geocortex Report Designer

## How To

Using field expressions in the Geocortex Report Designer

## Answer or Solution or Instructions

*Note: The following is taken from the [ActiveReports for .NET 3 User Guide](#).*

In ActiveReports, C# expressions can be used in the DataField property to specify textbox output in a report, such as date/time, mathematical calculations or conditional values. Any field expression should begin with the equals (=) sign.

### Mathematical Expression

Change the DataField property for the text box to the mathematical calculation desired.

Examples:

=UnitPrice+5

=Quantity-5

=Quantity\*UnitPrice

=UnitPrice/QuantityPerUnit

*Note: Before making calculations with layer fields, you must cast the data to the proper data type. For example: `=(double)Quantity * (double)UnitPrice`*

### Use a substring

Change the DataField property for the text box to the substring needed. If setting up grouping, change the GroupHeader's DataField property to the same substring.

Example:

=ProductName.Substring(0, 1)

### Using date/time

Change the DataField property for the text box to the following.

Example:

=System.DateTime.Now.ToString()

### Create a conditional value

Change the DataField property for the text box to the conditional statement desired.

Example:

```
=(UnitsInStock > 0)?"In Stock":"Backorder"
```

### Concatenate fields

Change the DataField property for the text box to the following.

Examples:

```
="There are " + UnitsInStock + " units of " + ProductName + " in stock."
```

```
=TitleOfCourtesy + " " + FirstName + " " + LastName
```

*Note: ActiveReports for .NET 3.0 automatically handles null values, replacing them with an empty string.*

### Round a calculation

Change the DataField Property for the text box to the following.

Example:

```
=(double)System.Math.Round(UnitPrice*UnitsOnOrder,2)
```

### Using modular division

Change the DataField Property for the text box to the following to get the remainder (2 in this case).

Example:

```
=22%(5)
```

### Replacing a null value

Change the DataField Property for the text box to the following to replace nulls with your own value.

```
=(Region == System.DBNull.Value) ? "No region specified" : Region
```