Spatial Display



Design DataTips using HTML

You can use text formatting to enhance the readability of DataTips for groups and layouts and to add emphasis to data from particular layers. You can use MicroImages text formatting codes for this purpose, as described in the Technical Guide entitled *Add Styling to DataTips*, but you can also use standard, widely-documented HTML markup and Cascading Style Sheet (CSS) Level 2 style methods to format DataTips. Using HTML markup gives you flexible control over font selection, styling, color, and alignment within the DataTip. If you are preparing data for conversion to geometric web tilesets, using HTML DataTip formatting has the added advantage that it can be directly used by the web mapping platform, so your DataTip information will appear as you intended.

In an HTML-formatted DataTip, such as the example illustrated on this page, the DataTip information is contained in a element. Each line in the DataTip constitutes a table row () element. The prefix and value components of each DataTip entry are contained in separate table data () elements that define the columns of the table (see green text lines in the HTML sample below). When you set up DataTips for the individual layers to provide the enclosing and tags for their components (as described subsequently), during each DataTip event these HTML elements are automatically detected and the DataTip text is parsed as a virtual HTML "document". Opening and closing
body> and tags are generated automatically for this virtual document (as shown in red text below).

A Display Control Script allows you to use CSS styles to easily define text formatting for all or part of every DataTip entry from all layers in the associated group or layout. Using a predefined func-



DataTip with text formatting set using HTML markup.

tion that is called each time a DataTip is requested, the script can create the <head> element of the virtual HTML DataTip "document" and include CSS style definitions within it (cyan text in the HTML sample). In the example shown on this page, the predefined "tr" CSS type selector is used to first define the font and font size used for every
element (every DataTip line). A second user-defined "prefix" class selector is then defined to make text bold within the elements containing the prefix text; the HTML markup for these elements must list this class as a property to apply the style.

In this DataTip example, each layer's DataTip text (with HTML markup) is created by a string expression in a computed text field in an attached database table. This field is then set as the source for (continued)



the DataTip in the Layer Controls window for the layer. The string expression defines the text to be used for the prefix, the database field containing the values, the suffix text (if applicable), and it encloses these within the required HTML tags. It also assigns the element containing the prefix text to the "prefix" style class defined by the Display Control script. This method allows you to use the Query Editor for the string expression field to compose the entire DataTip text for the layer and preview the resulting text string in the corresponding field in the table to check for typographical errors. Make sure that you have set in the Table Properties window a large enough width for the computed text field to accommodate the length of the text string to be generated by the expression. If the width is too small, the end of the text string is truncated and the HTML markup will not parse properly, preventing DataTip entries from this and subsequent layers from appearing. In addition, when using this method make sure that the Prefix and Suffix fields in the Layer Controls window are blank; text in these fields also interferes with parsing of the HTML markup for the DataTip.

Using a string expression in a computed text field as the source for HTMLformatted DataTip text also allows you to construct multiline DataTips to present a set of attributes from a single layer. The sample DataTip shown to the right includes multiple lines of information for property parcels. The Computed text field with HTML markup set as source for DataTip text in Layer Controls window.

Vector Layer Controls	×
Object Points Lines Polygons Nodes Labels 3D	
Show All Specify Style All Same	▼ Edit *
DataTips	
Show clu_public_a_ne131.DataTip 💌 🕅 Highlight	
Prefix Suffix	
Scale Range Visible Unlimited to Unlimited	

Make sure the Prefix and Suffix fields in the Layer Controls window are blank when using a computed text field for the HTML DataTip source.



set table cell to span two use CSS style property to set font weight and alignment for heading columns for heading 'Parcel Information 'Address: ' + ca062506.Situs_NoCity + ' 'Owner Occupied: ' + ca062506.OwnerOccupied + ' 'Year Built: ' + NumToStr(`Lancaster County Dwelling Info`.Yr_Blt) + ' 'Assessed Value: ' + sprintf("\$%.f", ca062506.ASSESSED) + ' 'Dwelling Sq Ft: ' + `Lancaster County Dwelling Info`.SqFtna + ' 'Parcel ID: + ca062506.PID + '+ + ''; leave blank table row after multiline DataTip with Varying Text Color

string expression for this layer (shown above) also shows how you can create a centered heading for the multiline entry by setting a table data element to span two columns, and use the style property to define a CSS style for an individual HTML element. (The group illustrated uses a display control script identical to the one shown on the front side of this page to set most of the DataTip text styling.) You can also use the style property to conditionally change text styling, such as color, for DataTip text, as shown by the string expression for the Floodplain layer in this group.

Using a computed text field as the source for HTML-formatted DataTip text may be impractical for some layers, such as raster layers and pinmapped geotagged photos. In these cases you can use the DataTip Prefix and Suffix fields in the Layer Controls window to provide the appropriate HTML markup, as illustrated in the examples to the right.



- to set text color if (flood.POLY_CODE==5) flood\$ = '500 year floodplain else if (flood.POLY_CODE==1)
- flood\$ = '100 year floodplain'; else if (flood.POLY_CODE==2)

flood\$ = 'floodway';

DataTip

Units

Show Image Cell Value

else flood\$ = 'not in floodplain'; return 'Floodplain: ' + flood\$;

HTML markup can also be included in the Prefix and Suffix fields in the DataTip controls in the Layer Controls window.

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▼ Decimal Places