RTML Tags in TJSONLabel for CardDesigner

To speed up the development of the functionality of displaying formatted text using RTML I relied on a previous development, and it has some differences with respect to the one specified on the page:

<https://www.provue.com/panoramax/help/graphics_rich_text.html>

# RTML Properties in TJSONLabel

## ParseToRTML = False

The **Text**, **TextSettings**, **JSONLink**, **RotationAngle**, **RotationCenter** and **LabelFormat** properties work as normal for a previous TJSONLabel.

## ParseToRTML = True

1. The **RTMLSettings** property is added with the default values ​​for LineSpacing and Margins.
2. The **JSONLink**, RotationAngle, **RotationCenter** and **LabelFormat** properties have no effect.
3. The content of the **Text** property is used to parse the RTML code.
4. The values ​​of the **TextSettings** property are ignored, except **Font.Family** and **Font.Size**, which are taken as the basis for RTML if no special font is specified.

# General features

1. Spaces and line breaks are taken as they come in the text, it is not necessary to specify them with special tags.
2. It allows to include JSON fields with the macro {: JSONField}, which can be used both in the texts and within the tags.

# Main differences

The differences in the implementation were due to the fact that they could extend the development time much more. If you want to work on these differences, it would be in a later phase.

1. All tags except IMAGE must be closed.
2. Values ​​assigned to tags must always be enclosed by ". Example: <align: "center">
3. The color specification is in hexadecimal and must begin with #. Example: <color: "#FF0000">.
4. The handling of special characters is similar to HTML, that is, it has the format **&entity;** or **&#decimal;**. Only 3 entities are recognized: AMP, GT and GL.
5. Allows you to include multi-line comments enclosed between <!-- and -->

# Tag implementation and specific comments

## Text Category

|  |  |  |
| --- | --- | --- |
| **Tag** | **Description** | **Included / Comment** |
| <b>…</b> | Bold | Yes |
| <i>…</i> | Italic | Yes |
| <ul>…</ul> | Underline | Yes |
| <doubleul>…</ul> | Double Underline | No |
| <thickul>…</ul> | Thick Underline | No |
| <strike:color>…</ul> | Strikeout (color is optional) | Yes without optional color |
| <superscript>…</superscript>  <sup>…</sup> | Superscript | Yes |
| <subscript>…</subscript>  <sub>…</sub> | Subscript | Yes |
| <color:rrggbb>…</color> | Color | Yes |
| <bgcolor:rrggbb>…</bgcolor> | Background Color | Yes |
| <font:name:height>…</font> | Font (height is optional) | Yes |
| <size:height>…</size> | Font Height (in points) | Yes |
| <baseline:height> | Baseline (in points) | Yes |

## Shadow Category

|  |  |  |
| --- | --- | --- |
| **Tag** | **Description** | **Included /Comment** |
| <shadow:color:opacity>…</shadow> | Text with shadow | Color and opacity values ​​added. By default the shadow takes the same color as the text, with an opacity of 0.2. |
| <shadowoffset:x:y>...</shadowoffset> | Shadow Offset (points) | Added tag closure |
| <shadowblur:points> | Shadow Blur Radius | NO |

## Artwork Category

|  |  |  |
| --- | --- | --- |
| **Tag** | **Description** | **Included / Comment** |
| <char:number> | Unicode Character (dingbats & icons) | No |
| <image:name>  <img:name> | Image (name may include relative or full path) | Yes |

## Layout Category

|  |  |  |
| --- | --- | --- |
| **Tag** | **Description** | **Included /Comment** |
| <tabs:tab1,tab2,tab3,…> | Tab Stops | No |
| <align:option> | Horizontal Alignment (left/center/right/justified) | Yes, but Justified option is not included |
| <leftmargin:value> | Left Margin (points) | Yes |
| <rightmargin:value> | Right Margin (points) | Yes |
| <paragraphspacing:before:after> | Extra space before/after paragraphs (points) | Not for lack of time |
| <linespacing:after> | Extra space after lines (points) | Yes |
| <lineheight:min:max:multiple> | Line Height (points) | Not for lack of time |

## Wrapping Category

No tag in this category is included, all functionality is Wrap Words.

## Styles and Other Categories

Not included.