

# **DASC e-doc xml Print File v1.0**

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## **Reference Manual**

## **NOTICE**

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## Semi-formal Description

The following description condenses the full print file tag summary.

`e-doc printfile ::= e-doc`

`e-doc ::= ref* | code*`

`ref ::= docform* | graph* | font*`

`code ::= page*`

`page ::= d* | g* | b* | l* | t* | n* | m*`

`m ::= mt*`

## e-doc printfile

### e-doc printfile

**e-doc printfile** complies with the World Wide Web Consortium (W3C) recommendation - Extensible Markup Language (XML) 1.0 specification. The top level element of an **e-doc printfile** is an **<e-doc>**. The **e-doc printfile** starts with header comments which contain the print file version, file name, document description, and remarks. The last part of the **e-doc printfile** is the summary and statistics comments. A sample is shown below.

```
<!-- *** DASC e-doc xml Print File v1.0 *** -->
<!-- Zip File: ABC_20030928.zip -->
<!-- Filename: ABC_20030928.xml -->
<!-- SoA Type: ABC Statement of Account -->
<!-- SoA Date: September 28, 2003 -->
<!-- Remarks : Size/Distance units are 1/72 of an inch -->

<e-doc>
  ...
</e-doc>

<!-- Total Zip Codes: 38 -->
<!-- Total Accounts : 148 -->
<!-- Total Documents: 177 -->
<!-- Total Lines      : 19,345 -->
<!-- Time Started    : Thu Feb 19 21:20:34 CST 2004 -->
<!-- Time Completed  : Thu Feb 19 21:22:04 CST 2004 -->
<!-- Total Duration  : 1 minute 90.485 seconds -->
```

## e-doc

### e-doc

**e-doc** is the top level element of **e-doc printfile**. Under the **e-doc** element, there is one **<ref>** element followed by one or more **<code>** elements. A sample format is shown below.

```
<e-doc>
  <ref id='R20030928'>
    ...
  </ref>
  <code id='Z0000'>
    ...
  </code>
  .
  .
  .
  <code id='Z9999'>
    ...
  </code>
</e-doc>
```

# reference <ref>

## 1. ref

Reference <ref> element contains all the common attribute references like document forms, graphical images and fonts for the <page> elements. The sequence of elements is - <docform> elements then <graph> elements and lastly <font> elements. The **id** attribute is based on the document date. A sample format for this element is shown below.

Attribute	Meaning
<b>id</b>	Document date with YYYYMMDD format used as document reference id.

```

<ref id='R20030928'>
  <docform id='D0000'>
    ...
  </docform>
  .
  .
  .
  <docform id='D9999'>
    ...
  </docform>

  <graph id='G0000'>
    ...
  </graph>
  .
  .
  .
  <graph id='G9999'>
    ...
  </graph>

  <font id='F0000'>
    ...
  </font>
  .
  .
  .
  <font id='F9999'>
    ...
  </font>
</ref>

```

**NOTE:**

An id attribute is required. As shown above, the reference id attribute follows the document date having the format: **YYYYMMDD** (e.g. **20030928** – meaning, the year **2003** followed by the month, which in this case is the month of September (written as **09**) and then the date which is the **28<sup>th</sup>**). No spaces necessary.

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### REF CONTAINS THE FOLLOWING ATTRIBUTES:

#### A. docform

**<docform>** element refers to the document's background form. The **id** attribute is used for **<d>** element references under **<page>** elements. The **filename** attribute refers to a graphical image file. A sample format for this element is shown below.

Attribute	Meaning
<b>id</b>	This is the document form reference. In the case of the sample below, it is <b>D6807</b> .
<b>filename</b>	This is the document form graphical image filename which can be any image used as a background form. As an example, the Document form filename is written as:  <b>&lt;filename&gt;soa_form_2003_2.gif&lt;/filename&gt;</b>

```
<docform id='D6807'>  
<filename>docform_image.gif</filename>  
</docform>
```

#### B. graph

**<graph>** element refers to a document's graphical images. The **id** attribute is used for **<g>** element references under **<page>** elements. The **filename** attribute refers to a graphical image file. A sample format for this element is shown below.

Attribute	Meaning
<b>id</b>	This is the graphical image reference. In the case of the sample below, it is <b>G33</b> .
<b>filename</b>	This is the graphical image filename which can be any. As an example, the graphical image filename is written as:  <b>&lt;filename&gt;bankard_foot_logos.gif&lt;/filename&gt;</b>

```
<graph id='G33'>  
<filename>graph_image.gif</filename>  
</graph>
```

C. font

Unique document font in **e-doc printfile**. The **id** attribute is used for **F** attribute references in **text <t>**, **number <n>** and **mixtext <mt>** elements under **<page>** elements. The **face** attribute is the font face or font type. The **size** attribute is the font size in points or 1/72th of an inch. The **style** attribute is the font style - Normal, Bold, Italic, or BoldItalic. A sample format for font element is shown below.

Attribute	Meaning
<b>id</b>	This is the font reference id. In the case of the sample below, it is <b>F33</b> .
<b>face</b>	This is the font face or font type which in the case of the sample below, it is <b>Arial</b> .
<b>size</b>	This is the size of font in points (1/72) of an inch, which in the case of the sample below, it is <b>5</b> .
<b>style</b>	This is the style of font which can be Normal, Bold, Italic or BoldItalic. As the case of the sample below, it is <b>Bold</b> .

```
<font id='F33'>
<face>Arial</face>
<size>5</size>
<style>Bold</style>
</font>
```

**Font Style / Font Type**

<i>Normal</i>	This is an example.
<b>Bold</b>	<b>This is an example.</b>
<i>Italic</i>	<i>This is an example.</i>
<b><i>BoldItalic</i></b>	<b><i>This is an example.</i></b>



# code

## 2. code

The **<code>** element comprises of **one (1) or more <page>** elements. A sample format for this element is shown below.

Attribute	Meaning
<b>id</b>	This is the code id attribute. As in the case of the sample below, it is <b>Z0000</b> .

```
<code id='z000'>  
  <page>  
    .  
    .  
  </page>  
</code>
```

# e-doc Page

## e-doc Page <page>

<page> contains all the presentation elements in a document page. This is where assigning of position locations and measurements of all elements take place. The **id** attribute refers to an account number. The **p** attribute refers to the page number and the total number of pages of a particular account number. The sequences of elements are arranged by the **T** (Top) attributes first and then the **L** (Left) attributes of the presentation elements. A sample format of <page> element is shown below.

Attribute	Meaning
<b>id</b>	This attribute is the account number, which in the case of the sample below; it is <b>A5475-8110-6094-0009</b> .
<b>p</b>	This attribute corresponds to the <b>page number</b> and the <b>total number</b> of pages of the above account number, which in this case; it is <b>1,1</b> .

```

<page id='A5475-8110-6094-0009' p='1,1'>
    .
    .
    .
    <t L='94,73,198,9,9,L,N' F='F45'>Word or sentence</t>
    .
    .
    <n L='402,116,73,9,16' F='F45'>78.75</n>
    .
    .
    <l L='145,337,344,3' />
    .
    .
    <b L='26,525,473,14,1' />
    .
    .
    <m L='27,527,471,9,9,C'>
        <mt F='F4946' U='N'>Normal font</mt>
        <mt F='F4961' U='N'>to italic</mt>
        <mt F='F4946' U='Y'>and back to normal with underline.</mt>
    </m>
    .
    .
    <g id='G36' L='30,590,249,25' />
    .
    .
</page>

```

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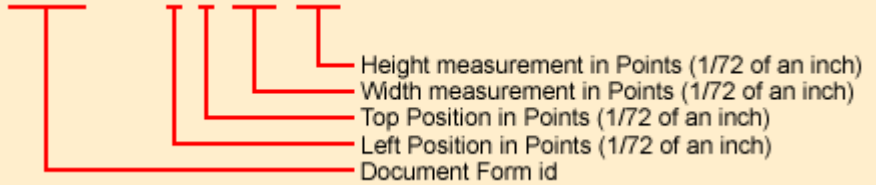
### E-DOCPAGE <PAGE> CONTAINS THE FOLLOWING PRESENTATION ELEMENTS:

#### A. Docform <d>

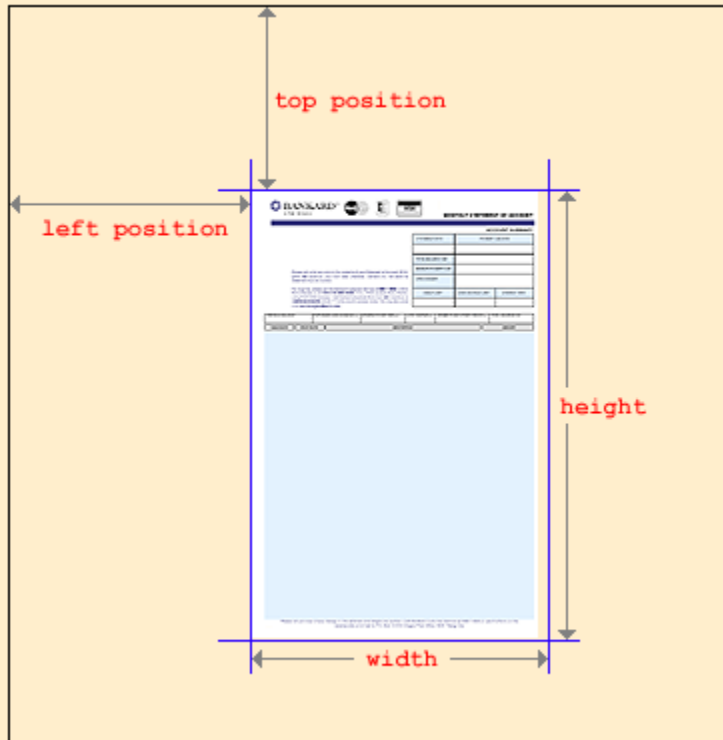
This is the document background form. A sample format is shown below.

Attribute	Meaning
id	This corresponds to the id attribute of <docform> elements under <ref> element. In the case of the sample below, it is <b>D6807</b> .
L	This corresponds to the Left position, Top position, Width measurement and Height measurement of the document form <d> respectively; all in points (1/72 of an inch).

```
<d id='D6807' L='0,0,508,792' />
```



#### Docform



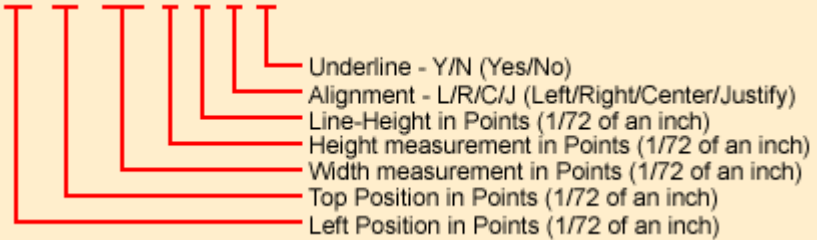
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**B. Text <t>**

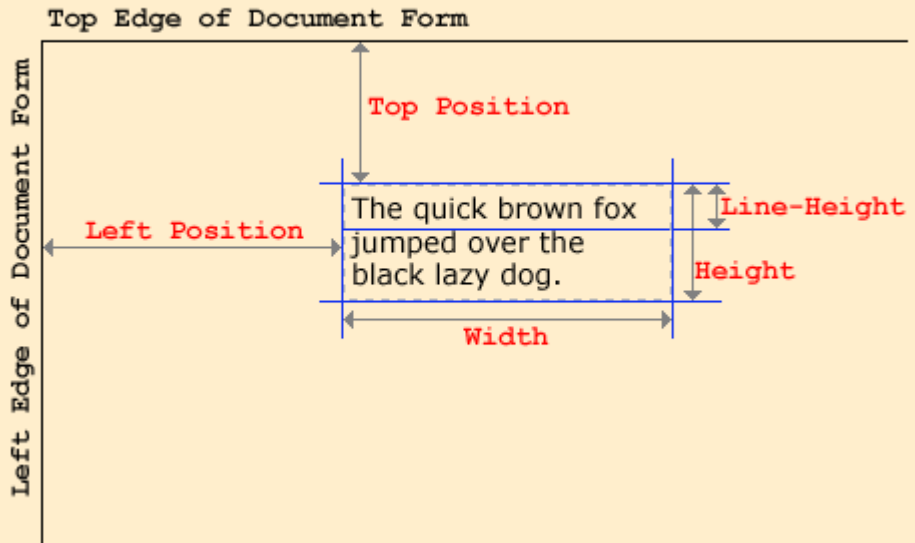
This is the text presentation element. A sample format is shown below.

Attribute	Meaning
<b>L</b>	<p>Corresponds to the Left position, Top position, Width measurement, Height measurement, Line-Height measurement, Alignment and Underline respectively. Left positions, Top positions, Width, Height and Line-Height measurements are all in points (1/72 of an inch).</p> <p>Alignment - L/R/C/J (Left/Right/Center/Justify). In the case of the above sample, it is aligned to the left (<b>L</b>).</p> <p>*** Width of the text will be ignored once the alignment is to the left and the height is equal to the line-height. But a value is still required for the width measurement.</p> <p>Underline - Y/N (Yes/No). In the case of the sample below, it is not underlined (<b>N</b>).</p>
<b>F</b>	Font corresponds to the id attribute of <font> elements under <ref> element.

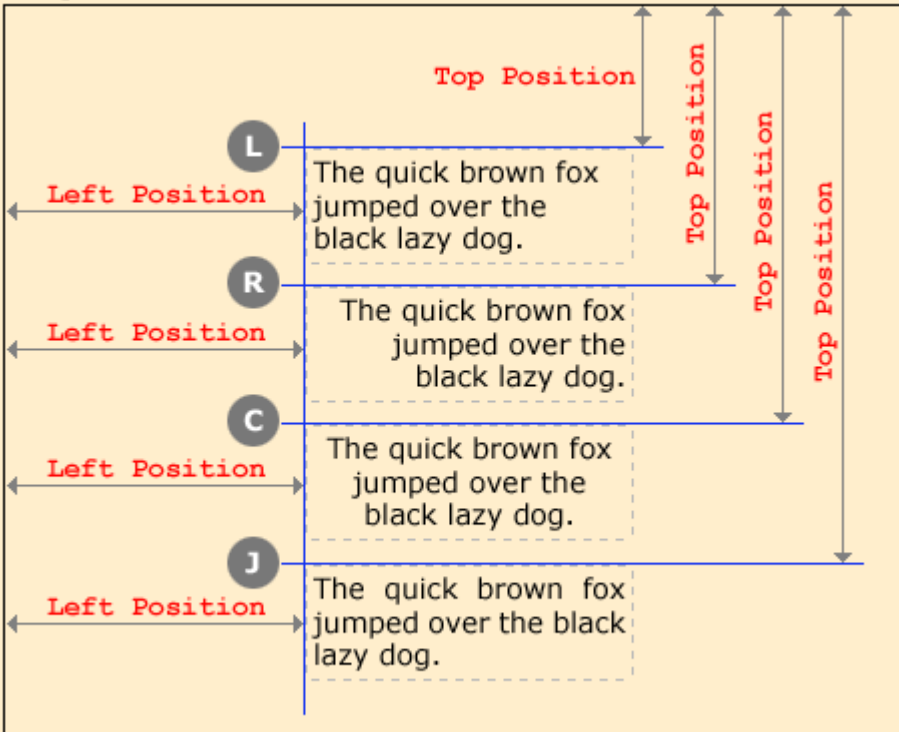
```
<t L='94,73,198,9,9,L,N' F='F45'>Word or sentence</t>
```



**Left, Top, Width, Height & Line-Height Measurement**

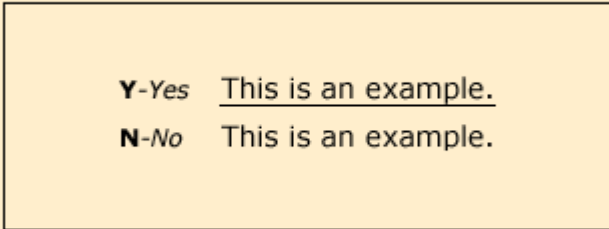


### Alignment



L-Left R-Right C-Center J-Justified

### Underline Text



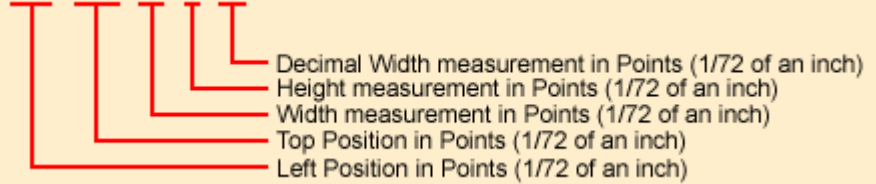
**DASC e-doc xml Print File v1.0 Reference Manual**

**C. Number <n>**

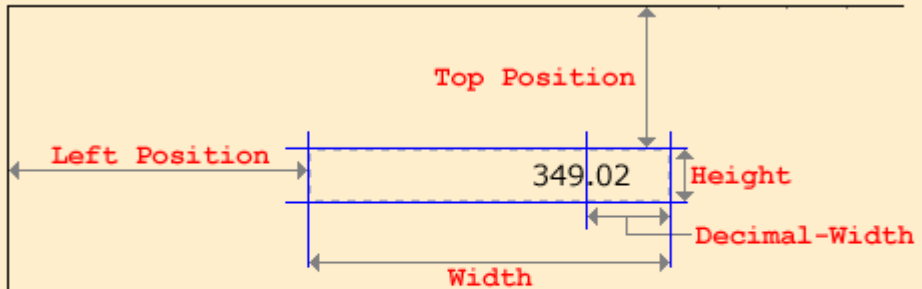
This is the numeric presentation element. A sample format is shown below.

Attribute	Meaning
<b>L</b>	Corresponds to the Left position, Top positions, Width measurements, Height measurements and *Decimal-Width measurements respectively; all in points (1/72 of an inch).  *Whole number is measured from the Width less the Decimal-Width. Whole number is right aligned and decimal is left aligned.
<b>F</b>	Font corresponds to the id attribute of <font> elements under <ref> element.

```
<n L='402,116,73,9,16' F='F45'>78.75</n>
```



**Numeric Element**



**NOTE:**

Whole Number is aligned to the right.  
 Decimal is aligned to the left.

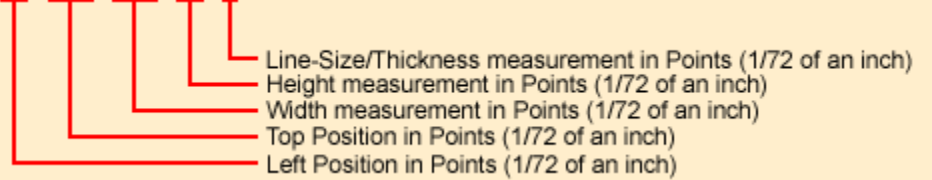
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### D. Box <b>

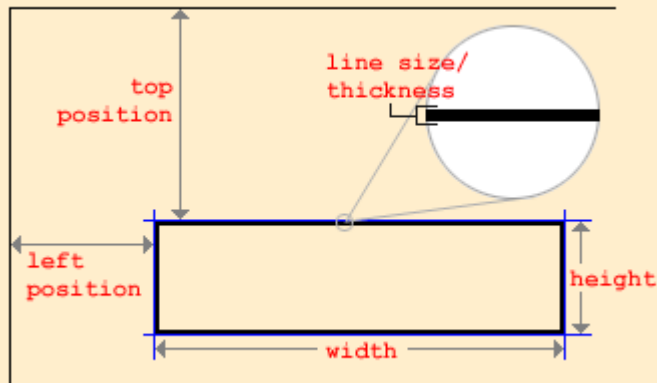
This is the box graph presentation element. A sample format is shown below.

Attribute	Meaning
L	Corresponds to the Left position, Top position, Width measurement, Height measurement and Line-Size/Thickness measurement respectively; all in points (1/72 of an inch).

```
<b L='26.525.473.14.1' />
```



#### Box Element



E. Solid Line <I>

This is the solid line graph presentation element. A sample format is shown below.

Attribute	Meaning
L	Corresponds to the Left position, Top position, Width measurement and Height measurement respectively; all in points (1/72 of an inch).

<I L='145,337,344,3' />

- Height measurement in Points (1/72 of an inch)
- Width measurement in Points (1/72 of an inch)
- Top Position in Points (1/72 of an inch)
- Left Position in Points (1/72 of an inch)

**Solid Line Element**

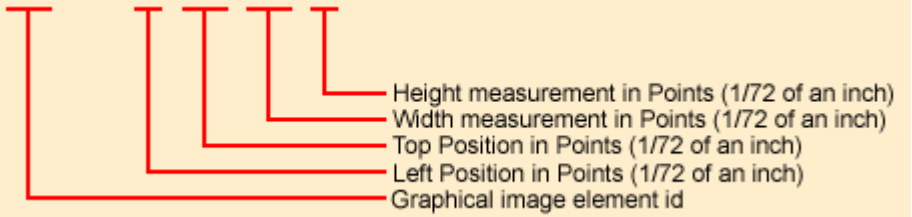


**F. Graphical Image <g>**

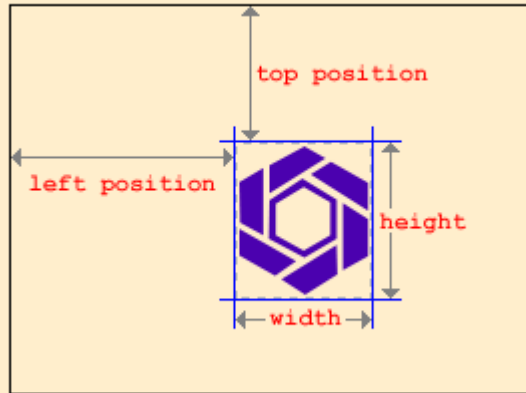
This is the graphical image presentation element. A sample format is shown below.

Attribute	Meaning
<b>id</b>	Corresponds to the id attribute of <graph> elements under <ref> element. In the case of the above sample, it is <b>G36</b> .
<b>L</b>	Corresponds to the Left position, Top position, Width measurement and Height measurements respectively; all in points (1/72 of an inch).

```
<g id='G36' L='30,590,249,25' />
```



**Graphical Image**



**G. Mix Text <m>**

This is the mix text effects presentation element. This is a combination of different font-types, font-styles and font-sizes of texts. This is usually used in sentences, phrases or paragraphs having different types, styles and sizes of texts. A sample format is shown below.

Attribute	Meaning
<b>L</b>	<p>Corresponds to the Left position, Top position, Width measurement, Height measurement, Line-Height measurement and Alignment respectively.</p> <p>The Left position, Top positions, Width, Height and Line-Height measurements are all in points (1/72 of an inch).</p> <p>Alignment - L/R/C/J (Left/Right/Center/Justify). As the case of the above sample, it is aligned to the center (<b>C</b>).</p>

Left Position in Points (1/72 of an inch)  
 Top Position in Points (1/72 of an inch)  
 Width Measurement in Points (1/72 of an inch)  
 Height Measurement in Points (1/72 of an inch)  
 Line-Height Measurement in Points (1/72 of an inch)  
 Alignment - L/R/C/J (Left/Right/Center/Justify)

```

<m L='27,527,471,9,9,C'>
  <mt F='F4946' U='N'>Normal font</mt>
  <mt F='F4961' U='N'>to italic</mt>
  <mt F='F4946' U='Y'>and back to normal with underline.</mt>
</m>
    
```

Underline - Y/N (Yes/No)  
 Font element id attribute

**Mix Text Effect**

This is an example of *mix text effect*.

normal      *italic*      underlined

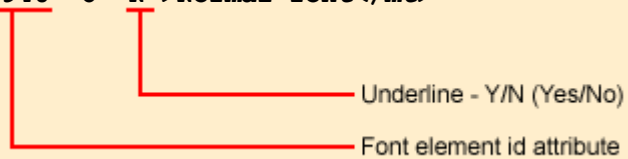
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### H. mt

This is the Text presentation elements of **mix text <m>** element. A sample format is shown below.

Attribute	Meaning
<b>F</b>	Font which corresponds to the id attribute of <font> elements under <ref> element.
<b>U</b>	Underline - Y/N (Yes/No). As the case of the sample below, it is not underlined ( <b>N</b> ).

```
<mt F='F4946' U='N'>Normal font</mt>
```



#### Underline Text

**Y-Yes** This is an example.

**N-No** This is an example.

## APPENDIX A: SUMMARY OF POSITIONINGS AND EFFECTS

### LEFT POSITION

To determine the left position of any element on a document form, you need to have an Image Editor, like Photoshop. It is measured from the left most corner of the form up to the edge of the element to be positioned. An element may be in the form of a text or graphical image. The measurement unit is Points (1/72 of an inch). Refer to image below.

### TOP POSITION

The top position is measured from the top edge of the document form down to the top of the element to be positioned. Measurement unit is Points (1/72 of an inch). Refer to image below.

### WIDTH MEASUREMENT

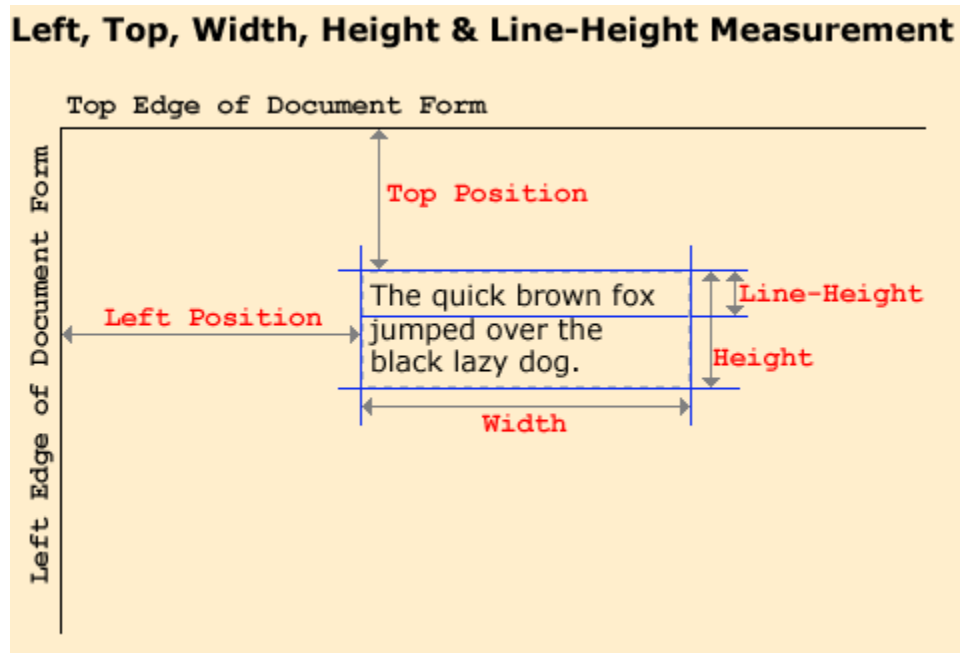
The width is the measurement of the entire element width. The measurement unit is in Points (1/72 of an inch). Width of the text will be ignored once the alignment is to the left and the height is equal to the line-height. But a value is still required for the width measurement. Refer to image below.

### HEIGHT MEASUREMENT

The height is the measurement of the entire element height. The measurement unit is in Points (1/72 of an inch). Refer to image below.

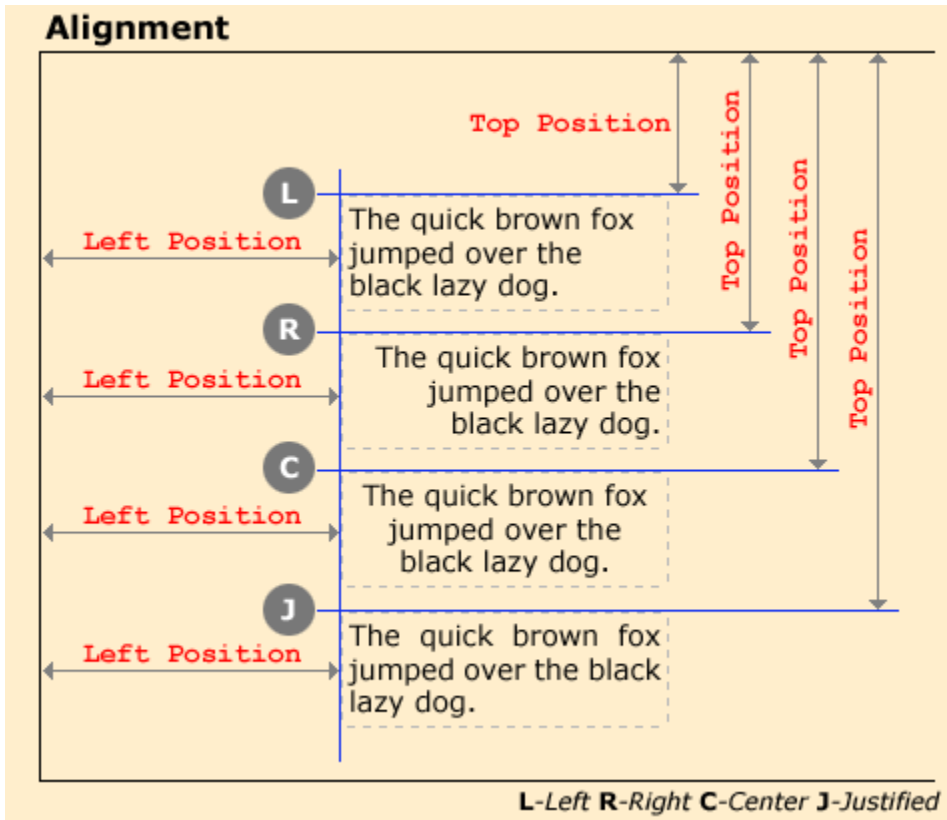
### LINE-HEIGHT MEASUREMENT

The line-height measurement is the height of line element. Usually it is equal to the size of the font used. The measurement unit is in Points (1/72 of an inch). Refer to image below.



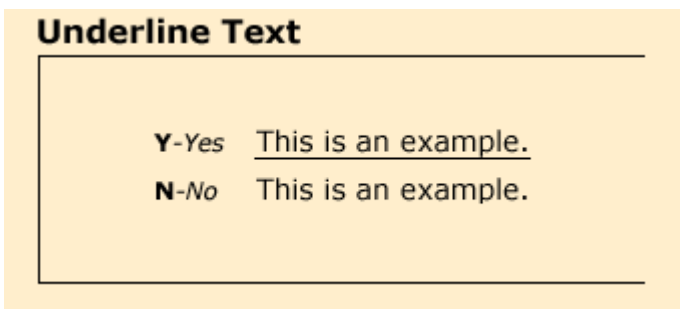
## ALIGNMENT

Alignment is the lay-out of the element on the document form. It is how the element to be positioned or aligned. Alignment includes: Left, Right, Center and Justify. Refer to image below.



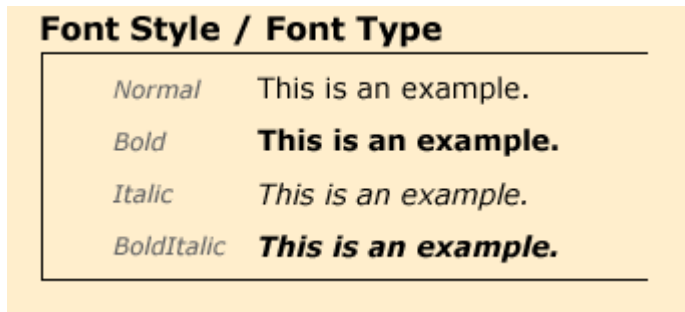
## UNDERLINE TEXT

Underlined text is an option of text element whether it is to be underlined or not. Selecting **Y** for Yes will mean that the text will have a line under it and choosing **N** for No will mean no line under it or it just a regular text. Refer to image below.



**FONT STYLE / FONT TYPE**

Font style/type is how you want the text element to have a style effect; whether just a Normal text, Bold, Italic or Bold Italic. Refer to image below.



**APPENDIX B: SUMMARY OF ENTIRE e-doc PRINT FILE.**

```

<!-- *** DASC e-doc xml Print File v1.0 *** -->
<!-- Zip File: ABC_20030928.zip -->
<!-- Filename: ABC_20030928.xml -->
<!-- SoA Type: ABC Statement of Account -->
<!-- SoA Date: September 28, 2003 -->
<!-- Remarks : Size/Distance units are 1/72 of an inch -->

<e-doc>
  <ref id='R20030928'>
    <docform id='D6807'>
      <filename>soa_form_2003_2.gif</filename>
    </docform>
    .
    .
    .
    <graph id='G33'>
      <filename>bankard_foot_logos.gif</filename>
    </graph>
    .
    .
    .
    <font id='F33'>
      <face>Arial</face>
      <size>5</size>
      <style>Bold</style>
    </font>
    .
    .
    .
  </ref>
  <code id='Z0000'>
    <page id='A5475-8110-6094-0009' p='1,1'>
      <d id='D6807' L='0,0,508,792' />
      .
      .
      .
      <t L='94,73,198,9,9,L,N' F='F45'>Word or sentence</t>
      .
      .
      .
      <n L='402,116,73,9,16' F='F45'>78.75</number>
      .
      .
      .
      <l L='145,337,344,3' />
      .
      .
      .
      <b L='26,525,473,14,1' />
      .
      .
      .
      <m L='27,527,471,9,9,C'>
        <mt F='F4946' U='N'>Normal font</mt>
        <mt F='F4961' U='N'>to italic</mt>
        <mt F='F4946' U='Y'>and back to normal with underline.</mt>
      </m>
      .
      .
      .
      <g id='G36' L='30,590,249,25' />
      .
      .
      .
    </page>
  </code>
  .
  .
  .
  <code id='Z9999'>
    ...
  </code>
</e-doc>
<!-- Total Zip Codes: 38 -->
<!-- Total Accounts : 148 -->
<!-- Total Documents: 177 -->
<!-- Total Lines : 19,345 -->
<!-- Time Started : Thu Feb 19 21:20:34 CST 2004 -->
<!-- Time Completed : Thu Feb 19 21:22:04 CST 2004 -->
<!-- Total Duration : 1 minute 90.485 seconds -->

```

## **APPENDIX C: REFERENCES**

e-doc print file is complied to World Wide Web Consortium (W3C) recommendation – Extensible Markup Language (XML) 1.0 specification.

Digital Arts Sales Corporation – <http://www.da2001.com>

World Wide Web Consortium (W3C) – <http://www.w3.org>

Extensible Markup Language (XML) 1.0 - <http://www.w3.org/TR/REC-xml>



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