International Sample

Unicode

The following sections contain text from various languages using many different kinds of writing systems.

This sample contains unicode characters that may not be available in the font used to display the document. PDFreactor tries to find a replacement for these characters in defined fall-back fonts. If these fonts do not contain the character or the fall-back fonts are not available the characters cannot be displayed.

Arabic

نص حكيم له سر قاطع وذو شأن عظيم مكتوب على ثوب أخضر ومغلف بجلد أزرق.

A wise text which has an absolute secret and great importance, written on a green cloth and covered with blue leather.

Chinese

视野无限广，窗外有蓝天

The view is infinitely wide. There is blue sky outside the window.

Danish

Quizdeltagerne spiste jordbær med fløde, mens cirkusklovnen Walther spillede på xylofon.

The quiz contestants ate strawberry with cream while Walter the circus clown played the xylophone.

German

Victor jagt zwölf Boxkämpfer quer über den großen Sylter Deich.

Victor chases twelve boxers across the great dam of Sylt.

Greek

Θέλει αρετή και τάλμη η ελευθερία. (Andrέας Κάλβος)

Liberty requires virtue and mettle. (Andreas Kalvos)

Hebrew

דג סקרן שטלו זך אך לפתע פגש תחמדה שצצה כך.

A curious fish sailed a clear sea, and suddenly found nice company that just popped up.

Japanese

いよいよにほへと ちりぬるを わかよたれそ つねならむ うゐのおくやま けふこえて あさきゆめみし そひもせす

The view is infinitely wide. There is blue sky outside the window.
Even the blossoming flowers / Will eventually scatter / Who in this world / is unchanging? / The deep mountains of vanity-- / We cross them today / And we shall not see superficial dreams / Nor be deluded. (from Iroha-uta)

Polish

Pchnąć w tę łódź jeża lub ośm skrzyń fig.

Push into this boat a hedgehog or eight boxes of figs.

Russian

Съешь ещё этих мягких французских булок да выпей же чаю.

Eat some more of these soft French buns and drink some tea.
Demonstration of Bi-Directional text (BiDi) using Left-to-right and Right-to-left languages

Different languages can use different writing systems. In European cultures or cultures influenced by European ones, the direction in writing systems is usually from left to right. This is the case in Latin, German or English, for example. Other languages, especially semitic ones like Arabic, Persian or Hebrew, are written from right to left. Bidirectional script support offers the possibility to display text written in different directions.

Using the CSS property "direction", the base direction of a certain element can be set to "ltr" or "rtl", e.g.

```
.ltr { direction: ltr; }
```

In addition, using "unicode-bidi: bidi-override;" will override the base direction for a certain element:

```
.forcrtl { direction: rtl; unicode-bidi: bidi-override; }
```

Example: Demonstration of alternating text direction by setting the direction for the second line to right-to-left.

This text is demonstrating the BiDi capabilities of PDFreactor, English CIBARA text

The logical order (order in which the characters are stored in the document) of the second line of this example is:

"by overriding the base direction and using right-to-left for this line"

However, visually, the order is as follows:

"enil siht rof tfel-ot-thgir gnisu dna noitcerid esab eht gnidirrevo yb"

When text from different writing systems is used in one paragraph, the separate characters will keep their base direction if not otherwise defined. Characters originated from left-to-right or right-to-left languages respectively have the corresponding predefined order that can only be overridden by using the style "unicode-bidi: bidi-override;".

Right-to-left text inside left-to-right sections will be displayed as follows:

english ARABIC text

Upper-case letters represent Arabic text while lower-case letters represent English text. The logical order of this text would be:

"english ARABIC text"

The following samples demonstrate the difference between left-to-right and right-to-left languages. The base direction for the separate sections are defined corresponding to their language. English words and abbreviations in right-to-left sections are displayed correctly although the base direction is not overridden for them which proves the predefined direction for characters.

The text excerpts are taken from the original English and the translated Arabic and Hebrew versions of the W3C document "XML in 10 Points".
5. XML is a family of technologies

XML 1.0 is the specification that defines what "tags" and "attributes" are. Beyond XML 1.0, "the XML family" is a growing set of modules that offer useful services to accomplish important and frequently demanded tasks. XLink describes a standard way to add hyperlinks to an XML file. XPointer is a syntax in development for pointing to parts of an XML document. An XPointer is a bit like a URL, but instead of pointing to documents on the Web, it points to pieces of data inside an XML file. CSS, the style sheet language, is applicable to XML as it is to HTML. XSL is the advanced language for expressing style sheets. It is based on XSLT, a transformation language used for rearranging, adding and deleting tags and attributes. The DOM is a standard set of function calls for manipulating XML (and HTML) files from a programming language. XML Schemas 1 and 2 help developers to precisely define the structures of their own XML-based formats. There are several more modules and tools available or under development. Keep an eye on W3C’s technical reports page.
Logical Properties and Values

Several horizontal positions and sizes can be specified depending on the text direction. The following sample uses the exact same HTML and CSS twice, except for different BiDi directions. The direction dependent styles and their effects are as follows:

The position of the title:

```css
position: absolute;
top: -1em;
inset-inline-start: 2em; /* LTR: "left: 2em" / RTL: "right: 2em" */
```

The float value and margin of the image:

```css
float: inline-end;
margin: 1em 0.1em;
margin-inline-start: 2em; /* LTR: "margin-left: 2em" / RTL: "margin-right: 2em" */
```

The border and padding of the box:

```css
border: 1pt none darkgrey;
border-top-style: solid;
padding-top: 0.5em;
border-inline-start-style: solid; /* LTR: "border-left-style..." / RTL: "border-right-style..." */
padding-inline-start: 1em; /* LTR: "padding-left: 1em" / RTL: "padding-right: 1em" */
```

Resulting in:

**LTR**


**RTL**

eativ ,silucai lsin tege xe ainical deS .tile gnicsipida rutetesnoc ,tema tis rolod muspi meroL tarecalp otsuj muspi ,tnudicit teeroal ta mes ,silucai siruaM .niduticillos neipas euqsetnellep tnudicit cenoD .tare subinif missingid malluN .neipas ca neipas muspi subinif eativ ,siprut a ,rotcu oel niduticillos neipas tidnalb ecsuF .di tidnalb rolod arterahp te ,mine euqsirelecs sore non mes sumixam cnuN .selados te mes ni tirerdneh naeneA .reprocmallu xe sittam sisilicaf ,tege mes reprocmallu ,subicuaf sore ni ibroM .teidrepmi im satsege susruc ,sitane nev sucnohr naeneA .oel sumixam tege tu .tivlev sittigas lev ,alugil missingid tu mulubitseV .cnun .anru tema tis nasmucca ,euqsirelecs arreviev lev rottitrop ,icro tilev maN .mutnemele domsiue .tauqesnoc domsiue maid lev sore cen tU .icro oel ue essidnepsuS .iud mudretni tu euqsiuQ

For more information on supported logical properties and values, please see the PDFreactor manual.
International List Numbering

PDFreactor supports several international list-style-types, including the following:

<table>
<thead>
<tr>
<th>1. decimal</th>
<th>二十</th>
<th>japanese-informal</th>
</tr>
</thead>
<tbody>
<tr>
<td>ii. lower-roman</td>
<td>๒๐</td>
<td>kannada</td>
</tr>
<tr>
<td>III. upper-roman</td>
<td>๒๑</td>
<td>katakana</td>
</tr>
<tr>
<td>d. lower-alpha</td>
<td>๒๒</td>
<td>katakana-iroha</td>
</tr>
<tr>
<td>E. upper-alpha</td>
<td>จอ</td>
<td>khmer</td>
</tr>
<tr>
<td>亊. arabic-indic</td>
<td>๒๓</td>
<td>lao</td>
</tr>
<tr>
<td>ざ. upper-armenian</td>
<td>๒๔</td>
<td>katakana</td>
</tr>
<tr>
<td>潽. lower-armenian</td>
<td>๒๕</td>
<td>malayalam</td>
</tr>
<tr>
<td>ｶ. bengali</td>
<td>๒๖</td>
<td>mongolian</td>
</tr>
<tr>
<td>_rho. cambodian</td>
<td>๒๗</td>
<td>myanmar</td>
</tr>
<tr>
<td>త. devanagari</td>
<td>๒๘</td>
<td>oriya</td>
</tr>
<tr>
<td>ง. georgian</td>
<td>๒๙</td>
<td>persian</td>
</tr>
<tr>
<td>ง. lower-greek</td>
<td>三十</td>
<td>simp-chinese-formal</td>
</tr>
<tr>
<td>ช. upper-greek</td>
<td>三十三</td>
<td>simp-chinese-informal</td>
</tr>
<tr>
<td>ฏ. gujarati</td>
<td>三十</td>
<td>telugu</td>
</tr>
<tr>
<td>ฎ. gurmukhi</td>
<td>๓๒</td>
<td>thai</td>
</tr>
<tr>
<td>ฅ. hiragana</td>
<td>๓๓</td>
<td>tibetan</td>
</tr>
<tr>
<td>๏. hiragana-iroha</td>
<td>๓๔</td>
<td>Urdu</td>
</tr>
</tbody>
</table>

For more information on supported list-style-types, please see the PDFreactor manual.