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ATTENTION TO

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\$39.60

Invoice Number: #20130304

| Organic Items | Price/kg | Quantity(kg) | Subtotal |
|---------------|----------|--------------|----------|
| Apple | \$5.00 | 1 | \$5.00 |
| Orange | \$1.99 | 2 | \$3.98 |
| Watermelon | \$1.69 | 3 | \$5.07 |
| Mango | \$9.56 | 2 | \$19.12 |
| Peach | \$2.99 | 1 | \$2.99 |

THANK YOU

* Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam sodales dapibus fermentum. Nunc adipiscing, magna sed scelerisque cursus, erat lectus dapibus urna, sed facilisis leo dui et ipsum.

Subtotal \$36.00

GST (10%) \$3.60

Total **\$39.60**

Blue-sky printing

There are many reasons for using Prince. We will show you 8.

one: JavaScript

Prince supports JavaScript so that programmers can achieve effects not possible in HTML and CSS along. For example, this document has a small script that automatically generates a table of contents:

| | | | |
|-----------------------|---|------------------------|---|
| JavaScript..... | 1 | CSS3 transforms..... | 1 |
| More JavaScript | 1 | Background images..... | 2 |
| CSS3 columns | 1 | CSS3 selectors..... | 2 |
| Styling pages..... | 1 | More transforms | 2 |

two: More JavaScript

This document lists 8 numbered features. Notice that the first three features are numbered with spelled-out numbers, while the rest use digits. This is achieved with a small script that exchanges digits for letters when the number is three or smaller.

three: CSS3 columns

This document is laid out in two columns on the first page. The next pages are more narrow and therefore only has room for one column. The number of columns is automatically adjusted based on the available width.

4: Styling pages

The second page of this document is different from the first: it's up-right and it has no background image. This is achieved by styling pages instead of elements.

5: CSS3 transforms

CSS3 introduces transforms, which can be used to scale and

rotate elements. «Prince» is rotated 90 degrees on the right. Also, it has been moved to a margin box so that it appears outside the normal text flow.

6: Background images

The image on the right is used as the background image on the first page. There, only part of the image is visible. This is achieved by carefully setting the position and pixel-density of the image. Also, notice how the background image is «bleeding»; it extends slightly outside the page to avoid white edges when the paper is cut.



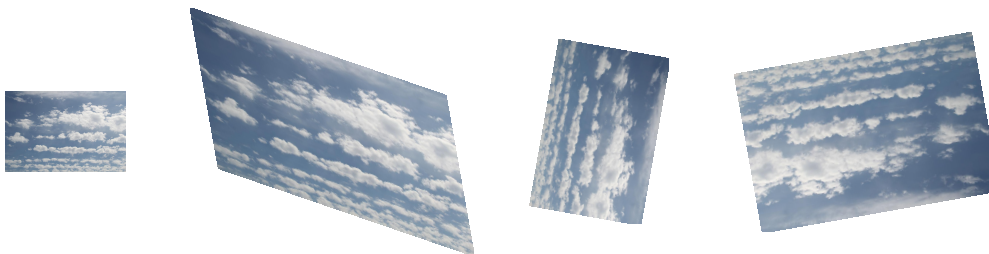
Prince

7: CSS3 selectors

Notice how every other item in our list of eight is in italics. This is achieved by selecting and styling even-numbered items.

8: More transforms

Transforms can be applied to images as well as text. Below is the blue-sky background image rotated at various angles.



The *magic* of Prince

Prince is a computer program that converts XML and HTML into PDF. It is simple, yet very powerful, and it creates beautiful documents. The purpose of this small document is to showcase the formatting magic Prince can do. We have chosen to highlight eighteen of our favorite features. This document is written in HTML and converted to PDF by Prince. The source file is a compact 13k document, including the embedded CSS, SVG and MathML.

TABLE OF CONTENTS

| | | | |
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#1: Hyphenation

Prince 6 supports automatic hyphenation which can break words across several lines, adding a hyphen at the word break. Hyphenation is controlled with a set of experimental CSS properties, and hyphenation patterns for different languages can be supplied. Notice how the text in this document is hyphenated.

#2: Rounded borders

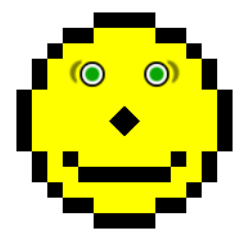
CSS3 introduces support for rounded borders. In the table below, some of the corners have been rounded. On purpose, the bottom right corner has an asymmetrical shape.

| | fruit | computer |
|--------|-------|----------|
| apple | yes | yes |
| orange | yes | no |

#3: Character substitution

It's sometimes convenient to replace one character with another without changing the source document. For example, the apostrophe character is easily found on keyboards, but in print it's common to replace it with a quotation character. Notice how Prince 6 has replaced the apostrophes in this paragraph.

#4: HTTP support



Prince 6 has built-in HTTP support and can fetch pages, images, DTDs and style sheets from the web. The image to the left was automatically fetched when the PDF version was generated.

#5: Web fonts

Prince 6 can fetch fonts from the web and use them without installing them on your system. The fonts used in the PDF version of this document are web fonts. We are grateful to Ray Larabie, Dieter Steffmann, and Red Hat for making hi-quality fonts freely available.

#6: Image resolution

Sometimes images should be scaled to a certain resolution, rather than to an absolute size. In Prince, you can set the resolution of an image as a property in the style sheet. The smiley face in the previous section was scaled this way. The smiley also represents the challenging Acid2 test, which Prince 6 passes.

#7: Columns

Columns are commonly used on paper and Prince supports multi-column layouts described in CSS. This document is laid out in two columns. Also, this section

uses a two-column layout with gap and a rule between. The width of the gap and the style of the rule is set in the style sheet.

#8: CMYK colors

Printers don't use RGB colors, they mostly use CMYK: cyan, magenta, yellow and black. Prince 6 can read CMYK colors and will use them, if present. The heading above this paragraph has both an RGB color (red) and a CMYK color (bluish). Therefore, the text is red in

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browsers, but blue in the PDF version. This is for demonstration purposes; normally the colors would be close to each other.

#9: Counters

If you are reading the HTML source code of this document, look for the `h2` elements. You will notice that they contain the text of the headings, but not their number. The list item number, including the “#” and “:” are automatically generated by the style sheet. Generated content and counters are especially useful for complex documents. They are described in CSS level 2.1.

#10: Crop and cross marks

In printing, crop marks are used to indicate where the printed paper should be cut. Cross marks are used to align prints of different colors to improve color reproduction. Prince 6 adds support for crop and cross marks, and the PDF version of this document includes both.

#11: Cross-references

Prince can read hyperlinks inside a document and generate page numbers accordingly. For example, it will automatically find out which page *Headers and Footers* are discussed on (page 2). Cross-references are used to generate the *Table of contents* (page 1).

#12: Math

Prince 6 add experimental support for MathML. Here is an example:

$$x \xrightarrow{\text{maps to}} y = f_n(x) = \left(1 + \frac{1}{x^n}\right)^n$$

#13: Footnotes

Footnotes¹ are essential in printed documents and Prince knows how to generate them. Unlike what some people think, footnotes are not the place to put information you

don't want to see. More often, footnotes will actually attract attention. 9 of 10 of readers will read the footnotes before they read the text from where the footnotes are anchored.²

#14: Leaders

Leaders consist of dots or dashes in a row leading the eye across a page. For example, the *Table of contents* has leaders in it. The leaders are not found in the document itself, but rather in the style sheet.

#15: SVG



Scalable Vector Graphics (SVG) is a language for describing two-dimensional graphics for the web. SVG images scale better than traditional bitmapped images and are suitable for printing. The crown is generated by two SVG elements.

#16: Page floats

On paged media, elements can be set float to the top or bottom of pages. The big URL at the top of this page comes after this paragraph in the source code, but is floated to the top by the style sheet.

#17: Headers and footers

Printed documents often have page headers and footers. For example, page numbers are often printed at the bottom of the page, and the document title is shown at the top – except on title pages.

#18: PDF Bookmarks

Prince will automatically generate PDF bookmarks from heading elements in HTML. The feature is set with a property in the style sheet, and can also be used with other markup languages.

1. A footnote is a note placed at the bottom of a page of a book or manuscript that comments on or cites a reference for a designated part of the text.

2. Often, the most interesting information is found in the footnotes.