

Xojo Reporting Options

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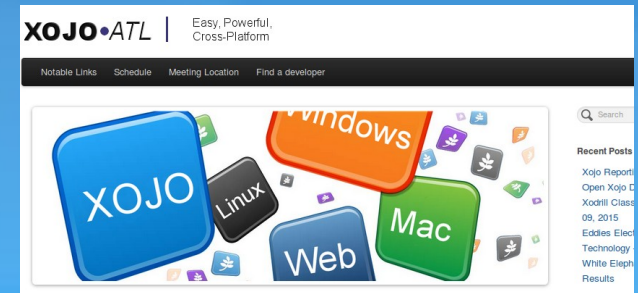


About This Session

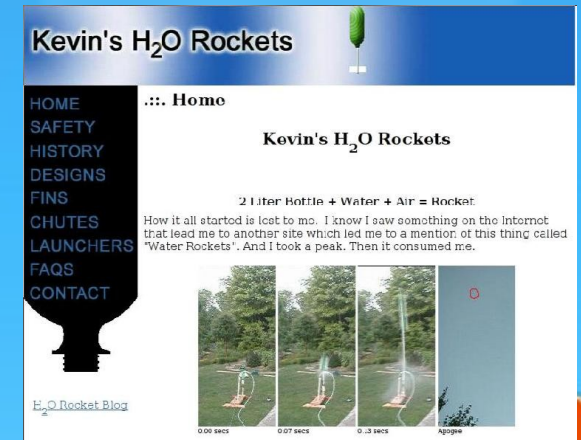
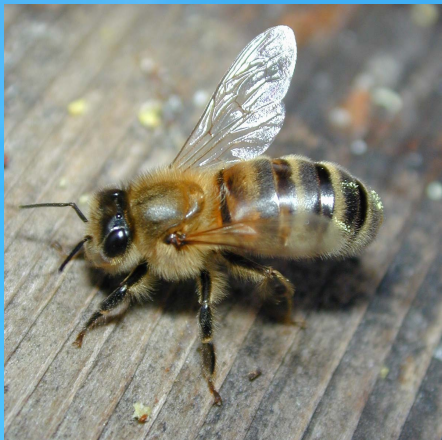
- Built in Xojo Report Writer
- HTML as a Reporting Option
- LaTeX Reporting
- Bkeeney Shorts
- ... other options



About Me - Professional



About Me - Personal



Built in Xojo Reporting Tool

The screenshot displays the Xojo Reporting Tool interface. At the top is a toolbar with various icons for report design. Below the toolbar is a ruler. The report itself is titled "Historical Gas Prices" and features a red gas can icon. It includes a "Year: YYYY" input field. A table lists the months of the year with corresponding "Price" input fields. The table is organized into three columns: January, February, March, April; May, June, July, August; and September, October, November, December. The "February Price" field is currently selected, indicated by a green border. The interface also shows a vertical sidebar on the left with labels for "PageHeader", "GHI", "Body", and "PF".

| Historical Gas Prices | | |
|---|---|--|
| Year: <input type="text" value="YYYY"/> | | |
| January <input type="text" value="Price"/> | May <input type="text" value="Price"/> | September <input type="text" value="Price"/> |
| February <input type="text" value="Price"/> | June <input type="text" value="Price"/> | October <input type="text" value="Price"/> |
| March <input type="text" value="Price"/> | July <input type="text" value="Price"/> | November <input type="text" value="Price"/> |
| April <input type="text" value="Price"/> | August <input type="text" value="Price"/> | December <input type="text" value="Price"/> |



Built in Xojo Reporting Tool

- **PROS:**

- Free
- Nothing to install
- Visual Designer
- Cross-platform

- **CONS:**

- Limited
- Rough output
- Single band
- No PDF Output*
- No one uses it



HTML Output



CULLY Technologies, LLC

Invoice: 488

392 Amy Ln.
Canton, GA 30115-6897
678-929-7762

| Invoice # | Inv Date: | Due Date: | Total Sale: |
|-----------|------------|------------|-------------|
| 488 | 2014-09-26 | 10/11/2014 | 0.01 |

Bill to: **Test Company**
Mr. Test
5090 Hampton's Club Dr.
Alpharetta, GA 30004

Test Company
Mr. Test
5090 Hampton's Club Dr.
Alpharetta, GA 30004

| Type | Date | Done By | Qty. | Price | Charge |
|--------------------|------------|-------------|------------------|--------|--------|
| Billed Time | 2014-09-26 | Kevin Cully | 1.0000 minute | 0.0100 | 0.0100 |
| Test | | | | | |

* Payment is due within 15 days of the invoice date. No interest shall be charged on invoices not paid within such fifteen (15) day period.

| | |
|-----------------------|---------------|
| Subtotal: | 0.01 |
| 0.00 % Tax: | 0.00 |
| Total Charges: | \$0.01 |



HTML Output

- **PROS:**

- Free
- Fast
- Viewer Inside Xojo
- Viewable Outside Xojo
- Templatable
- Some cross platform issues
- ... more.

- **CONS:**

- Graphics must be hosted on Internet
- Less control of display (fonts, sizes)
- Little control of header, footer



HTML Output

```
DIM cRetVal AS String = ""
DIM nX AS Integer = 0
DIM cField, cValue, cRow AS String = ""

IF oRS = NIL THEN
    ' Nothing to do.
ELSE
    DIM nRecordCount AS Integer = oRS.RecordCount
    DIM nFieldCount AS Integer = oRS.FieldCount
    DIM nRecord AS Integer = 1
    oRS.MoveFirst
    FOR nRecord = 1 TO nRecordCount
        cRow = cHTMLTemplate
        'We merge in the data, one row at a time in the recordset.
        FOR nX = 1 TO nFieldCount
            cField = "<<" + oRS.IdxFld( nX ).Name + ">>"
            cValue = oRS.IdxFld( nX ).StringValue
            cRow = ReplaceAll( cRow, cField, cValue )
        NEXT
        ' We merge each row into the return variable.
        cRetVal = cRetVal + cRow + EndOfLine
        oRS.MoveNext
    NEXT
    oRS.MoveFirst
END

RETURN cRetVal
```

```
1 <!-- Project Detail list -->
2 <tr><th><<ctype>></th><th><<dcreate>></th><th><<cuser>></th><th><<nitemunit>> <<citemunit>></th><th><<nitemrate>></th>
3 <th style="text-align: right;"><<nitemtotal>></th></tr>
4 <tr><th>&nbsp;</th>
5 <td align="left" colspan="4"> <<cdescribe>> </td>
6 <th>&nbsp;</th>
7 </tr>
8 <tr><td colspan="6"><hr></td></tr>
```



HTML Output

- What about PDF output?
- <http://wkhtmltopdf.org/>

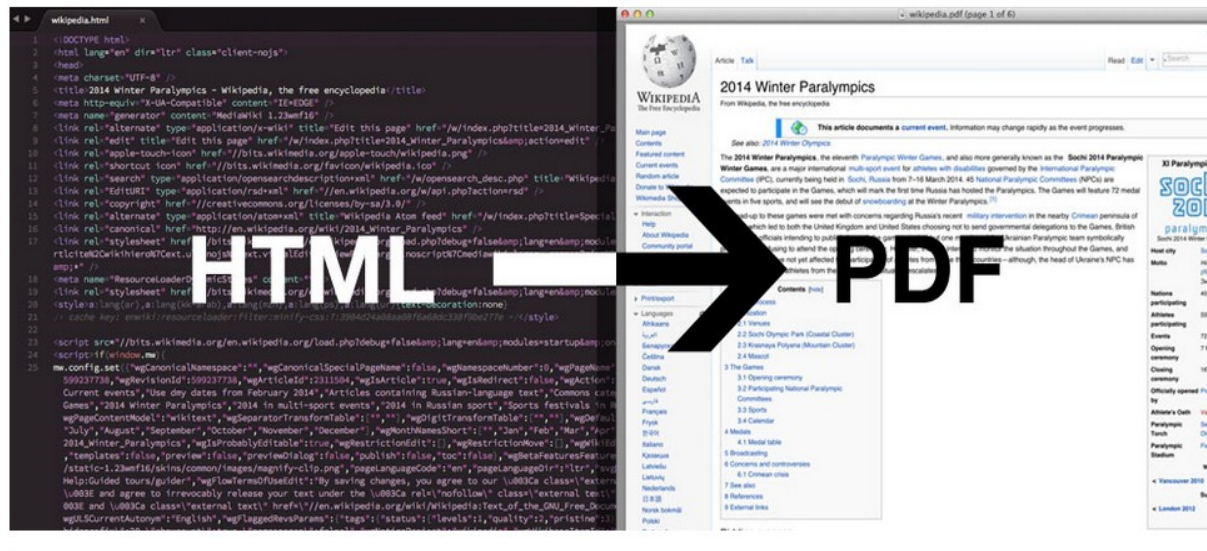
WK<html>TOPdf

Downloads

Docs

Support

Source



What is it?

wkhtmltopdf and **wkhtmltoimage** are open source (LGPLv3) command line tools to render HTML into PDF and various image formats using the QT Webkit rendering engine. These run entirely "headless" and do not require a display or display service.



LaTeX

$$\iint_{\Delta S} (\nabla \times \mathbf{A}) \cdot \mathbf{n} \, dS \qquad \iiint_V \Psi \nabla^2 \phi \, dV \qquad \int \cdots \int f(x_1, \dots, x_k) \, dx_1 \dots dx_k$$

$$a_1 + a_2 + \cdots + a_n = \sum_{i=1}^n a_i \qquad L_1(x) \leq \cdots \leq f(x) \cdots \leq U_2(x) \leq U_1(x) \qquad B \xrightarrow[H^+]{130^\circ \text{C}} C$$

$$f'(a) = \lim_{h \rightarrow 0} \frac{f(a+h) - f(a)}{h} \qquad \underline{e}_i = \frac{\partial x^k}{\partial y^i} \underline{E}_k \qquad H(j\omega) = \begin{cases} e^{-j\omega t_0} & \text{for } |\omega| < \omega_c \\ 0 & \text{for } |\omega| > \omega_c \end{cases}$$

$$\left\langle \frac{\mathbf{p}^2}{m} \right\rangle = \langle \mathbf{r} \cdot \nabla V(r) \rangle \qquad \left| \frac{f(x+\epsilon_m) - f(x)}{\epsilon_m} \right| \geq \zeta \qquad 1 = \sum_n |\mathcal{U}_n\rangle \langle \mathcal{U}_n| \qquad \lim_{n \rightarrow \infty} p_n$$

$$\limsup_{n \rightarrow \infty} \sqrt[n]{c_n} \leq \alpha \qquad \begin{pmatrix} a_{11} - \lambda & \cdots & a_{1n} \\ \vdots & \ddots & \vdots \\ a_{n1} & \cdots & a_{nn} - \lambda \end{pmatrix} \begin{pmatrix} x_1 \\ \vdots \\ x_n \end{pmatrix} = \mathbf{0} \qquad \overline{(\Delta n)^2} \equiv \overline{(n - \bar{n})^2}$$

$$\overrightarrow{\text{AB}} + \overrightarrow{\text{BC}} = \overrightarrow{\text{AC}} \qquad (\mathbf{A} \times \mathbf{B})_\alpha = \varepsilon_{\alpha\beta\gamma} A_\beta B_\gamma$$



LaTeX

- **PROS:**

- Free
- Fast
- Cross-Platform
- TOC, Index, Cross-document links

- **CONS:**

- Requires complex install
- New mark-up to learn
- Table support difficult
- Can't natively display in Xojo app



Bkeeney Shorts

Invoice Preview

<

1/1

>

Scale:


Search

Animal Clinic

surgery | boarding | grooming

"Caring People, Caring for Pets"

161 Silverhill Ave. | AL 36576 | (205) 330-3300



Invoice # 8

Chuck Flowers

161 Silverhill Ave.

1000

| Date | Pet | Item | Fee |
|--|--------|--|--------|
| 03/02/2015 | Butch | Adenosylmethionine 200 mg | 49.37 |
| Give 1 tablet daily. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec a diam lectus. Sed sit amet ipsum mauris. Maecenas congue ligula ac quam viverra nec consectetur ante hendrerit. Donec et mollis dolor. Praesent et diam eget libero egestas | | | |
| 03/02/2015 | LeRoy | Atopica 100 mg (33 - 64 lbs.), 15 capsule pack | 110.00 |
| 02/19/2015 | Rainie | Blastomyces Titer | 203.50 |
| Need 2 ml urine keep cold. Turn around 10-15 days - Antech Code # 86293 Test | | | |
| Charges | | | 362.87 |
| Current Previous Balance | | | 0.00 |
| Amount Paid | | | |
| Amount Due if Processed | | | 362.87 |

Close

☐ Color Odd

Print



Bkeeney Shorts

- **PROS:**

- Fast
- Flexible
- Cross-Platform
- Well-supported

- **CONS:**

- Costs
- No visual designer
- Complex code required



Reporting – Other Options

- Excel and Word Output
- Roll your own
- DBReport 1.3
- Valentia Reports
- ... others ...



Xojo Reporting

- Q & A



Xojo Reporting

Thank you.

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<http://cully.biz>

<https://twitter.com/KevinCully>

