Presentation Software Talk

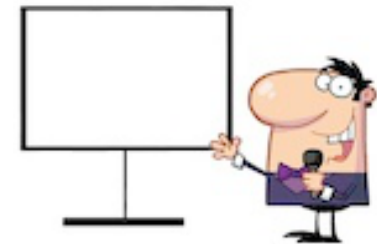## OCLUG Meeting - December 2013

Scott Murphy

Outline

- What we are not talking about
    - What goes in a presentation
- Commercial solutions
- FLOSS solutions
- Supplemental software
- Demo
- References, links, etc.

We are not talking about...

- This is not a talk on:

    - Giving presentations

    - Designing presentations

    - Presentation content

    - All possible presentation solutions

Well, maybe a little...

- The basic idea behind a presentation slide deck is to put text on the screen

  - Talking points really

- Commercial solutions are often overkill

  - If you need special effects, embedded videos, etc., perhaps a slide deck is not the correct answer

- This slide is a little dense according to most design people

Commercial Software

Microsoft

- Powerpoint
  - Part of the MS Office Suite
  - Proprietary (needs MS Windows or OS X, possibly iOS)
  - Expensive

Apple

- Keynote
  - Part of the iWork suite
  - Proprietary (needs OS X or iOS)
  - Pretty affordable, limited platform

FLOSS equivalents

Apache Foundation

- OpenOffice Impress

    - http://www.openoffice.org/product/impress.html

    - Excellent tool, even better with Oracle at arms length

    - Overkill as well

The Document Foundation

- LibreOffice Impress[1]

    - http://www.libreoffice.org/features/impress

    - Forked from Open Office mostly because of Oracle

    - Still overkill for most

[1]This presentation was composed in LibreOffice 4.1

$\LaTeX$ Based

Beamer

- Pretty much available on any platform that you can install LaTeX

  - Plain text source

  - Need to convert to pdf to view

  - More features than I'd care to discus the manual is over 200 pages

Basic beamer slide

% small.tex
\documentclass{beamer}
\usetheme{default}
\begin{document}

\begin{frame}{A sample slide}

A displayed formula:

\[
  \int_{-\infty}^\infty e^{-x^2} \, dx = \sqrt{\pi}
\]

An itemized list:

\begin{itemize}
  \item itemized item 1
  \item itemized item 2
  \item itemized item 3
\end{itemize}

\begin{theorem}
  In a right triangle, the square of hypotenuse equals
  the sum of squares of two other sides.
\end{theorem}

\end{frame}

\end{document}

Generating a slide

- % pdflatex simple.tex
- % xpdf simple.pdf

A sample slide

A displayed formula:

$$\int_{-\infty}^{\infty} e^{-x^2}\, dx = \sqrt{\pi}$$

An itemized list:
- ▸ itemized item 1
- ▸ itemized item 2
- ▸ itemized item 3

Theorem
In a right triangle, the square of hypotenuse equals the sum of squares of two other sides.

The complexity goes up...

- I have a full beamer presentation on fuel cells from the author of a tutorial. We will look at it during the demo.

    - This is the download link: http://www.math.umbc.edu/~rouben/beamer/hfc.tar.gz

Markup based solutions

Markup based solutions

- Markdown as the source language
    - Use pandoc to generate slides
    - Use asciidoc to generate slides
- Easy to read, easy to maintain
- Requires translation to other formats for the actual presentation

Pandoc

- John MacFarlane put together a document conversion tool:

  – If you need to convert files from one markup format into another, pandoc is your swiss-army knife.

Slides with pandoc

- Specifically, you write in markdown and use pandoc to convert via several possible outputs:
  - Slidy
  - S5
  - Slideous
  - Reveal.js
  - Dzslides

Pandoc markdown source example

```
% Habits
% John Doe
% March 22, 2005


# In the morning


## Getting up


- Turn off alarm
- Get out of bed

## Breakfast


- Eat eggs
- Drink coffee


# In the evening
```

```
## Dinner


- Eat spaghetti
- Drink wine


------------------


![picture of spaghetti]
(images/spaghetti.jpg)


## Going to sleep


- Get in bed
- Count sheep
```
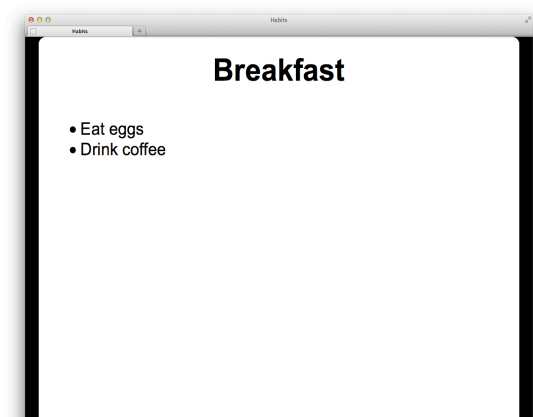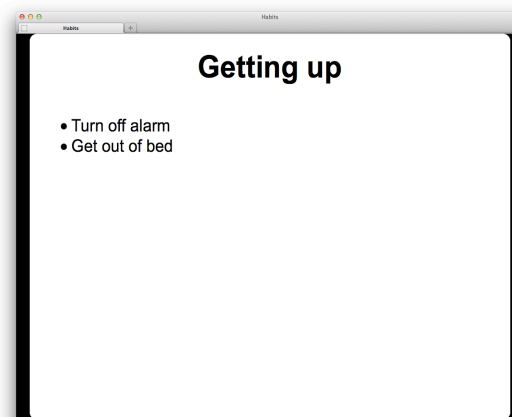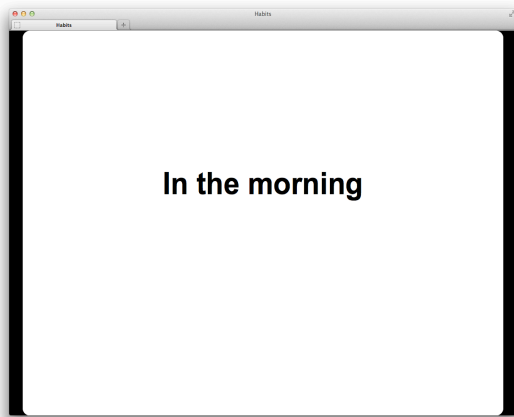
Pandoc example

```
% pandoc -t dzslides -s simple1.md -o
simple_dzslides.html

% open
file:///tmp/slides/markdown/simple_dzslides.html &

%
```

Asciidoc

- Similar to pandoc, but somewhat more specialized

- Asciidoc was designed as a documentation tool with the ability to output to pdf, html, epub

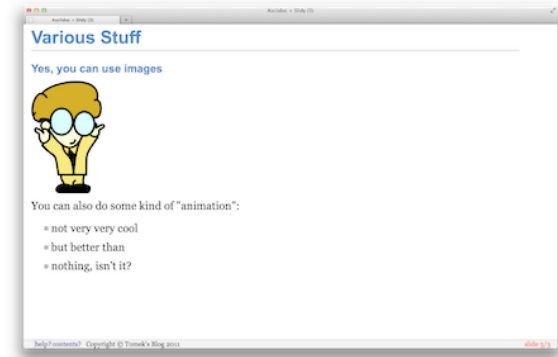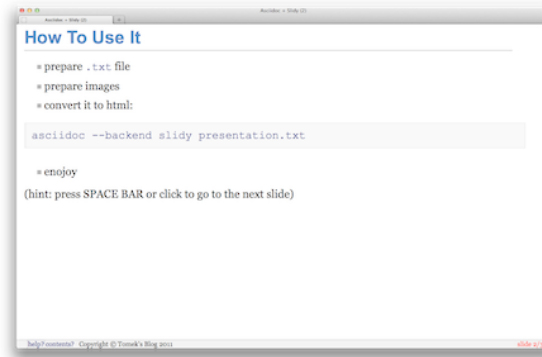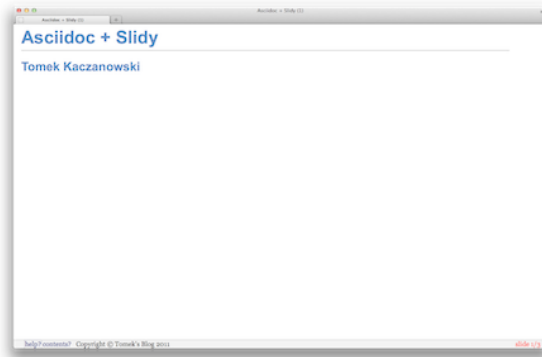 - For the ruby crowd, there is a ruby based variant called asciidoctor

Asciidoc Example

- Asciidoc + Slidy
- =================
- :author: Tomek Kaczanowski
- :copyright: Tomek's Blog 2011
- :backend: slidy
- :max-width: 45em
- :data-uri:
- :icons:
-
-
- How To Use It
- ------------
-
- * prepare +.txt+ file
- * prepare images
- * convert it to html:
-
- ----
- asciidoc --backend slidy presentation.txt
- ---

- * enojoy
-
- (hint: press SPACE BAR or click to go to the next slide)
-
-
- Various Stuff
- ------------
-
- .Yes, you can use images
- image:sample_image.png[]
-
- You can also do some kind of "animation":
-
- [role="incremental"]
- - not very very cool
- - but better than
- - nothing, isn't it?

Asciidoc example

```
% asciidoc --backend slidy demo.ascidoc
% open file:///~/slides/markdown/demo.html &
%
```

Browser Based Solutions

Slidy

- World Wide Web Consortium tool

  - HTML Slidy: Slide Shows in HTML and XHTML

- Requires two files:

    - The slide show style sheet:
      http://www.w3.org/Talks/Tools/Slidy2/styles/slidy.css

    - The slide show script:
      /http://www.w3.org/Talks/Tools/Slidy2/scripts/slidy.js

- Uses standard HTML markup

Slidy example

Main XHTML

```
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
 "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en">
<head>
  <title>Slide Shows in XHTML</title>
  <meta name="copyright"
  content="Copyright &#169; 2005 your copyright notice" />
  <link rel="stylesheet" type="text/css" media="screen, projection,
print"
  href="http://www.w3.org/Talks/Tools/Slidy2/styles/slidy.css" />
  <script src="http://www.w3.org/Talks/Tools/Slidy2/scripts/slidy.js"
  charset="utf-8" type="text/javascript"></script>
  <style type="text/css">
    <!-- your custom style rules -->
  </style>
</head>
<body>
   ... your slides marked up in XHTML ...
</body>
```
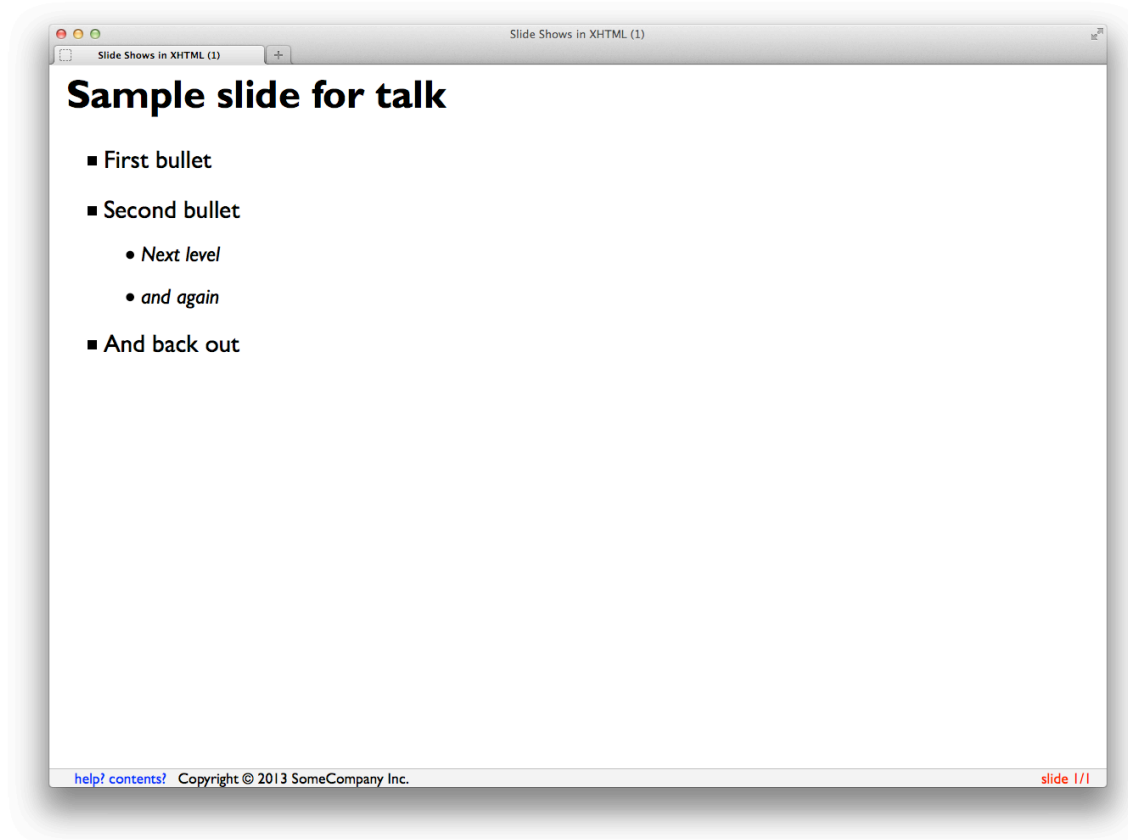
Example slide to go in the body

```
<div class="slide">
<h1>Sample slide for talk</h1>
<ul>
<li>First bullet</li>
<li>Second bullet
<ul>
<li>Next level</li>
<li>and again</li>
</ul>
</li>
<li>And back out</li>
</ul>
</div>
```

Slidy generated result

Supporting Programs

Platforms

- In order to actually use the slides, you need to use something to display them:

    - A modern web browser for web based decks

    - Pdfpc to display pdf files on the screen

Viewing PDF

- If you are not using a browser:
  - xpdf
  - evince
  - pdfpc
    - This gives you presentation control of sorts
    - It allows you to use the second monitor to display a PDF and use the primary monitor to show a clock and the upcoming slide

Other systems

- Some others:
    - Magicpoint: http://member.wide.ad.jp/wg/mgp
    - Slideous: http://goessner.net/articles/slideous
    - Reveal.js: http://lab.hakim.se/reveal-js/#
    - Slidy: http://www.w3.org/Talks/Tools/Slidy2
    - DSZslides: http://paulrouget.com/dzslides

DEMO

References

Links

- https://bitbucket.org/rivanvx/beamer/wiki/Home

- http://www.math.umbc.edu/~rouben/beamer/quickstart.html

- http://heather.cs.ucdavis.edu/~matloff/beamer.html

- http://meyerweb.com/eric/tools/s5

- http://johnmacfarlane.net/pandoc/demo/example9/producing-slide-shows-with-pandoc.html

- http://davvil.github.io/pdfpc

- http://www.methods.co.nz/asciidoc/slidy-example.txt

Links

- http://kaczanowscy.pl/tomek/2011-09/nice-presentations-in-no-time-with-asciidoc-and-slidy

Extras...

- One thing that failed during the demo was the slideous output

  - I checked a few other slideous examples and they did not work either

  - The example on the author's website works, so it is possible that the pandoc installation may be missing a component

Disclaimer

Any images used in the talk and in the announcement came from product logos via Google image searches, my own logo mashups or my own creation. The blank presentation graphic came from http://apschools.ahs.schoolfusion.us