



PACKAGE
1.6

SLIDES
1.3

EuroTcl
2019

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SPMC

SISLIDY Presentation Markup Compiler

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SODOCO Unrestricted

spmc



SISLIDY Presentation Markup Compiler



- interprets SPM format — as a Tcl script
- outputs a slide show — as HTML + CSS + JS

Agenda

- SPM little-language
 - syntax
 - macros



- declarations
 - with
 - without
- SPMC command line
- Conclusion
 - stats
 - take-aways



SPM Markup

Markup Syntax

It's Tclish — take a look ...

[spmc.spm](#)



Ex. 1: Empty Tag

SPM

a

HTML

<a>



Ex. 2: Plain Tag

SPM

a HTML content

HTML

```
<a>  
    HTML content  
</a>
```



Ex. 3: Tag with an ID attribute



SPM



a#1a HTML content

HTML

```
<a id="1a">  
    HTML content  
</a>
```

Ex. 4: Tag with a class attribute

SPM



a=C1 HTML content

HTML

```
<a class="C1">  
    HTML content  
</a>
```

Ex. 5: Tag with a bare attribute

SPM

```
a.local HTML content
```

HTML



```
<a local>  
    HTML content  
</a>
```

Ex. 6: Tag with a value attribute

SPM

```
a.rel=next HTML content
```

HTML

```
<a rel="next">  
    HTML content  
</a>
```



Ex. 8: Tag with a style property



SPM

`a.fg:white` HTML content

HTML

```
<a style="fg: white;">  
    HTML content  
</a>
```

Ex. 9: Tag w/2 style properties



SPM

`a.fg:white.bg:blue HTML content`

HTML

```
<a style="fg: white; bg: blue;">  
    HTML content  
</a>
```

Ex. 10: Tag with an href



SPM



`a.href=tcl..tk/#globalnav` HTML content

HTML

```
<a href="tcl.tk/#globalnav">  
    HTML content  
</a>
```

Ex. 11: Tag with everything

SPM



```
a=C1#1a.rel=next.href=tcl..tk.fg:#FFF:bg:blue {  
    HTML content }
```

HTML

```
<a id="1a" class="C1" href="tcl.tk" rel="next"  
    style="fg: #FFF; bg: blue;" href="tcl.tk">  
    HTML content  
</a>
```



SPM Markup

Macros

Macros

<i>&args</i>	an HTML entity
eyecatcher	decoration for title and divider slides
eyecatcher.bignum	decorative version number for title slides
plaque	presentation segmentation
pre!	re-indented, pre-formatted text
rho	table row of columns
slide	presentation page a.k.a. foil
slide.divider	presentation divider page
slide.title	presentation title page



void

dead code

slide



Presentation page

The main building block

```
slide#slide-id slide-title {  
    [h2.asap One-liner]  
    [p explanation, etc.]  
}
```

slide.divider



Presentation divider page

For sectioning

```
slide#conclusion.divider Conclusion {  
  [plaque Conclusion \  
    "measurements and take-aways"]  
}
```

slide.title





Presentation title page

Expect exactly once

```
slide#title.title.a1 TITLE {  
    [eyecatcher.bignum PACKAGE 1.4]  
    [eyecatcher.bignum SLIDES 1.0 May 2019]  
    [eyecatcher DRAFT]  
    [plaque spmc foo bar]  
}
```



SPM Markup

Declarations

with *key args*

copyright

footer

help

look

looks

noise

script

internal notice

footer information

location of online help

initial look to use

looks to provide

distracting ink at bottom of slide

embedded scripting



<code>script-src</code>	script file to use
<code>sodoco</code>	Siemens Office Document Confidentiality level
<code>style</code>	embedded CSS style rules
<code>stylesheet</code>	stylesheets to use
<code>title</code>	title in browser
<code>visible</code>	initialize display options

with script *code*

Add JavaScript code



```
with script {  
    console.log("hello, world");  
}
```

See `--with script-src`

with style *code*

Add CSS rules



```
with style {  
    a:hover { background: silver; }  
}
```

with visible *options*



Enable specific display options

Display Options

all	all slides; not just current slide
borders	highlight the edges of slides
comments	commentary in slides
footer	toolbar at bottom of screen
hiddens	hidden slides
increments	all increments at once
scrollbars	on-screen scrollbars
contents	table of contents

without *key args*



external-scripts	forget all script-src entries
external-styles	forget all stylesheet entries
internal-scripts	forget all script entries
internal-styles	forget all style entries
looks	forget specific looks entries
script-src	forget specific script-src entries
scripts	forget internal and external scripts
styles	forget internal and external styles
stylesheet	forget specific stylesheet entries
visible	hide specific display options



Command Line

To override declarations

Command line options

file

--inline *file*

--inline-all

--inline-all-images

--inline-all-scripts

--inline-all-stylesheets

--with *key args*

presentation file

file to copy

create a standalone presentation

images as internal data

scripts as internal data

styles as internal data

override command



--without *key args*

override command

--inline *file*

Copy *file* content into output

.css	↳	<style>
.js	↳	<script>
.apng	↳	data:image/apng;base64
.gif	↳	data:image/gif;base64
.jpeg .jpg	↳	data:image/jpeg;base64
.png	↳	data:image/png;base64
.svg	↳	data:image/svg;base64



--inline-all

Copy all images, scripts, and styles

The simplest way to get a standalone presentation.



--inline-all-images

Copy all images

However, for smaller, firewall-safe output, you may want to inline only:

- your logo
- critical data and significant results

and omit:

- backgrounds
- decorations



--inline-all-scripts





Copy all scripts into the output

However, you may want to generate just lecture notes — not an active presentation.

`--inline-all-stylesheets`

Copy all stylesheets into the output



Any CSS style rules within the SPM files are always copied into the output — this command only copies external CSS files referenced by `<link>` elements or by `with script-src` commands.

`--with` *key args*

The *args* must be a single string on the command line, but will be split internally

See [the “with” declarations](#)



`--with visible borders,comments`

--without *key args*

The *args* must be a single string on the command line, but will be split internally

See [the “without” declarations](#)



--without visible footer,hidden,scrollbars



Conclusion

Measurements and Take-Aways

Size of Active Content



	kLines	kWords	kBytes
ct-2018-2.css	0.62	2.26	20.3
palette-2018.css	0.30	1.70	15.0
sislidy.js	0.91	3.64	39.2
tcl-2019.css	0.05	0.20	2.1
	-----	-----	-----
	1.88	7.80	76.6

Size of Passive Content





kBytes	Q	SPM	TDG	TUT	
all.htm	477	357	364	877	standalone live
inert.htm	436	316	323	836	fanfold with easter eggs
notes.htm	406	310	311	819	fanfold w/o easter eggs
lean.htm	96	77	71	98	live, except images
min.htm	59	40	32	60	online only

.spm	34	22	20	26	

Take-Aways

- SPMC makes HTML + CSS + JS slide shows
- HTML is easy, a little tedious, and needs CSS



- CSS is awesome
- JS has DOM skills
- Tcl masquerades well as a little language — again!

proc unknown for the win!