

Introduction

The HyperText Markup compiler (converter) uses formatting commands and text to output HTML. Why learn one language to output another? HTML is a character intensive language, and as such, it requires much additional typing. HTML is also powerful, but that power can lead to confusion and frustration trying to make something work. The converter uses a few commands to consistently write HTML that works. Why reinvent the wheel?

Version 3 adds support for Cascading Style Sheets. This requires a bit of preplanning on the part of the document writer because the compiler has no lookback capability. Any commands that affect styles must be given before the BEGIN command at the head of the document. These commands are added to a stylesheet embedded at the head of the document or the *.linksty* command allows putting all of the style information into a separate stylesheet. Several different files could use the same stylesheet. If you use an external stylesheet, style markups within it are treated like those directly written into the document.

The compilers themselves are written in awk, a common Unix-based pattern scanning language. The awk programs themselves were compiled into *.exe* files so they behave like other DOS programs. Use them from the command line like filters. The awk compiler is old, and doesn't understand long filenames, so keep your own filenames 8.3 compliant. For example:

Convert a file, from ht to htm:

```
html myfile.ht > myfile.htm  
type myfile.ht | html > myfile.htm
```

In either case, the single filename could be a list of filenames.

If you are using a stylesheet, then use the style-enabled compiler, *htmls.exe*. For the same example:

```
htmls myfile.ht > myfile.htm  
type myfile.ht | htmls > myfile.htm
```

Last, to compile your stylesheet:

```
htsty mysty.cs > mysty.css
```

Installation

Copy the files into a directory that is in your windows path. You can find these directories by opening the MS-DOS window (or Start/Run cmd.exe) then once you have the DOS prompt showing, type PATH <enter> and read the list. A good choice would be the WINNT or Windows directory.

Copy the documentation files into MyDocuments.

In your document, each command begins at the left margin with a dot (period). If you've ever used nroff, troff, or Wordstar, these will be familiar to you. The column marked *Brk* indicates if the command causes a line break (newline). The possible answers are: B - before, A - after, blank - not applicable. The initial commands (in order of use) are:

Status	Command	What's it do?	Syntax	Options
R	.t [title text]	Title that appears in the browser's title bar.	Title text after command	none
Opt	.redir .redir [timeval]	Forces browser to refresh	.redir .redir 15	Timeval is seconds before refresh. Continues to refresh every timeval. Put before pagetitle!
Opt	.refresh	Forces browser refresh on page load	.refresh	Put in header, before begin
Opt	.keywords	Keyword list for browsers	No arguments	none
Opt	Keyword list	Keyword list for browsers	Comma separated list	none
Opt	.keywords end	Ends keyword list		none
Opt	.bf [N, default] .bf[N, default]	Sets basefont size	N = 0-9. Default = 3.	Space between tag and arg is optional
Opt	.bfm [namelist] .basefontname [namelist]	Sets basefont list	Namelist= arial,Helvetica,times	Comma separated, no spaces after commas. Spaces ok within names IE only!
Opt	.desc [description]	Meta tag describes doc content		none
Opt	.auth [authorname]	Meta tag gives author name		none
Opt	.ver [version information]	Meta tag gives document version		none
Opt	.robots [content]	Meta tag gives directions to robots	Content may be: Index – index the page noindex – ignore this page follow – follow the page	

			nofollow – index but do not follow	
Opt	.linksty [URL]	Inserts link to style sheet		Works somewhat like #include in C
R	.begin [.bg] [.bkg <i>filename</i>]	Starts the page		.bg sets the background color. See later for possible values. .bkg allows a file for background. It must be suitably treated.
Opt	.pt [N] [title text]	Creates a bold, centered page title.	N = 0-9, default = 2.	
Opt	.button .close	Adds a 'close window' button		Uses Javascript. Not necessarily an initial command.
Opt	.lit [.on, .off] .lit .lit [text, html code, etc.]	Literal, Display	Toggles literal. (no on/off) toggles literal inline form	Sends text between tags thru without processing. Use to pass HTML thru compiler
Opt	.skip, .skip end	Ignore text between tags	Text never appears.	Use as a block comment. Immune to conditional commenting.

All Style related commands must appear in the document BEFORE the **.begin** command.
Alternately, use the htsty.exe program to compile the style sheet into a css stylesheet.

	Tag	Does this	Details	Remarks
Req	.begin [.bg] [.bkg <i>filename</i>]	Starts the page		.bg sets the background color. See later for possible values. .bkg allows a file for background. It must be suitably treated.
	.style [arg] [arg] ... [arg] =: selector:property:valu e property:value .media:type,type,type,media end	Adds style settings to stylesheet	Property:value pairs after a selector:property:value apply to the same selector .media allows media-dependent styles .media end ends styles for a particular media grouping	Important: no spaces allowed in [arg]. To embed a space, use "+". Find CSS information in HTML or CSS Text or on WWW.
	.style default	Adds rudimentary style sheet to page.	Sets margins, color, and default font family.	
	.bg[colorval]	Sets background color	Uses html	
	.bgc[colorval]	Sets background color	Uses style sheet	
	.bkg[filename] .al[tblr]	Sets filename as background image on page	.al[tblr] for alignment .alt[lcr] .alb[lcr] .alc[lr]	Top, center, bottom, left, right Top-left, top-center, top-right Bottom-left, bottom center, bottom- right Center-left, center-right
	.linksty [URL]	Add link to stylesheet	Place before .begin	

Action	Tag	Does This – Details	Brk	Remarks
Bold	.bold text .Bold text – causes break before .boldend .bo	Toggles bold font boldend ends bold		Text is optional. If present, the line ending is the end of character formatting. Initial cap causes break
			B	
Italic	.italic text .Italic text – causes break before .italend .italicend	Toggles italic font Ends italic Ends italic		Text is optional. If present, the line ending is the end of character formatting. Initial cap causes break
			B	
Bold Italic	.bital .boit .bitalend	Bolid Italic Font Ends font		Text is optional. If present, the line ending is the end of character formatting. Initial cap causes break
Underline	.under text .Under text – causes break before	Toggles underline		Text is optional. If present, the line ending is the end of character formatting.
			B	
Fixed/Mono	.fix text	Toggles monospace font		Text is optional. If present, the line ending is the end of character formatting.
Smaller	.sub	Can do inline, or before and after		Makes font 2 sizes smaller.
Emphasis	.em text	Applies Emphasis to text		Does not toggle. Only applies to words following it on the same line. Effect used for emphasis varies with browser. Effect can be modified via style sheet.

Action	Tag	Does This – Details	Brk	Remarks
Examples	Syntax: .bold The King is a fink .bold The King is a fink .bold .em We'll emphasize this	Result: The King is a fink The King is a fink <i>We'll emphasize this</i>		Browser dependent.
Font/Face	.font .s[N] .[b,i,u,r] .f[aAt] .bg[colorval] .face [typeface]	Change font size. N is even point sizes. Default 12. follow size number with [biu] (optional) b,i,u,r are bold, italic, underline, roman/restore. .f changes face to arial, ArialBlack, or times. .face [typeface] changes fonts to <i>typeface</i> .		Roman cancels bold, italic, underline. Style commands are toggles Bg: see Color/.bg size command can be of form: .s24b (24pt bold) Wrap <i>typeface</i> in quotes if more than one word.
	.face [name] .face	Changes font to [name] Ends instance of [name]		Name must be a recognized font name.
	.font .efont	Ends font change		No args.
Example	Syntax: .font .s14b .font .s12 .fA .font	Sets 14 point, bold Sets 12 pt, Arial Resets font		
Degrees/Minutes/Seconds	.dms deg min sec [heading]	Formats into: 11° 10' 09"N	No	Use for GPS Coordinates.
Copyright	(c) translates to ©			

Action	Tag	Does This – Details	Brk	Remarks
Trademark	(tm) translates to ™			
Reg	(r) translates to ®			
Plus/minus	+/- translates to ±			
Em-dash	&emdash; translates to an emdash.			
< > &	These characters are protected from being confused by the html engine.			
Diacritical Marks	&[vowel]`; &[vowel]’; &[vowel]^; &[vowel]..; &[Cc], &[Nn]~	Accent grave Accent acute Circumflex Umlaut Cedilla Ntilde, ntilde		Most of the diacritical marks used in French can now be used.
Special Characters	&#nn; &#nnn;	Inserts that character		Must be on a line by itself or other &#nn characters. Can not combine on the same line with diacritical marks. They need to be on their own line(s).
Euro symbol	€	Inserts Euro symbol		

Action	Tag	Does This – Details	Brk	Remarks
Paragraph	.p .p .in nn .align [alignment] class [style] .pe	Starts new paragraph .in adds indent of nn pixels Ends Paragraph (for style)		Indent only in effect for that paragraph.
Div	.div .align [txt] .class [style] .div end	Starts DIV section Ends DIV section		Align different than span
Span	.span .align [txt] .class [style] .span end	Starts SPAN section Ends SPAN section		Align different than div
Heading	.[hH][0-9] text .[hH][0-9] .target text .[hH][0-9] .target .bg[colorval]	Heading with level Heading with level and link target Adds background color stripe	A	Level arg and text are necessary. Target and bg color are options
Blockquote	.bq .bq end	Used to present a paragraph with reduced line width.		
AngleQuote	.aq [text] .aq [text] .aq	Inserts anqle quotes around text.		.2aq inserts double angle quotes
Literal, Display	.lit [.on, .off] .lit .lit [text, html code, etc.]	Toggles literal. (no on/off) toggles literal inline form		Sends text between tags thru without processing. Use to pass HTML thru compiler
Literal, Display	.lit [.on, .off]	Toggles literal.		Sends text between tags thru without processing.
Skip following text; block comment	.skip, .skip end	Ignore text between tags	Text never appears.	Use as a block comment. Immune to conditional commenting. Skipped text never appears at compiler output.

No line wrapping; display	.ds [width] .de	Width parameter is optional Turns off display mode		
No Wrap	.nw .nw off/end .Nw .NW	Adds break between each line. Other parameters remain the same. break before and after. <p> break before and after	No Y Y	Can be toggle. Formatting ok inside block. Don't use across .H heads.

Action	Tag	Does This – Details	Brk	Remarks
Alignment	.left	Toggles left placement.		Also works inline
	.center	Toggles center placement		Also works inline
	.right	Toggles right placement		Also works inline
Keywords	.keywords .keywords end	Adds keywords to page (they don't display) so that search engines can find them. The keyword list is comma separated and appears between the two commands.		Must appear prior to begin tag.
Page Title (browser)	.T text .T	Title using <i>text</i> . By itself, ends title block.		Appears in Window Title Bar Must appear prior to begin tag.
	.bf [default, [1-9]	default font size		put after .t in header and before .begin
	.pt[n] [Title Text]	Makes a Centered, Large page title.		Appears in document. N makes page title that many points bigger.
Begin/Page Start	.begin	Starts html .bg specifies background color .bkg specifies background filename		End is automatic at EOF
Page Title (screen)	.pt[0-9] text	Produces a centered heading, Helvetica font, size by 0-9 argument.		Causes break (no line) No multi-line form size arg is not point size
Paragraph break	.p .p .in nn	Paragraph .in adds nn pixel indent	A	Line break with extra space.
Break	.br	break	A	Causes a line break without extra space.

Action	Tag	Does This – Details	Brk	Remarks
VertSpace	.sp[0-9], sp [0-9], .vsp[0-9], .vsp [0-9]	Creates vertical space	A	Uses <P> repeatedly
HorSpace	.hsp[0-9] <i>text</i> , .hsp [0-9] <i>text</i>	Adds horizontal space (indent)		Uses nbsp repeatedly
comment	.. <i>text</i>	Comment		Doesn't print
	... <i>text</i>	Comment		Doesn't appear in compiled output
	.prcmt [1,0]	causes .. comments to print		use for conditional printing.
	.cmt	Comment block of text Toggles on/off		Commented text doesn't appear in compiled output.
Last modified	.lm <i>text</i>	Prints, "Last Modified" followed by <i>text</i> .		
Horiz line	.line[val] .w[val] .bg[colorval] .a[lcr]	Val after .line sets thickness Val after .w sets width .bg sets color .a[lcr] sets alignment L, C, R	B	Colorval described in Color section.
Leading “.”	\.			
Redirect	.redir URL	Redirects browser to URL		Put inside of title block preferably.
Color	.bg#[rrbbgg] .bg:[lcyn, cyan, lbrn, brn, lgrn, grn, blu, red, wht, blk, lvio, vio, 0] sub bc for bg (tables, border color)	Change element color Never used alone.. 0 prevents and resets. #[rrbbgg] sets to arbitrary hex rgb value :[color] sets to named color bc only works in tables		Works with: table, row, col h head, line, begin (sets doc color), font In tables, if placed in table command, becomes global for table. If placed in col command, affects only that column. Use bc to change table border color. Note: works differently between IE and Netscape.

**Appearance:alignment,
whitespace, lines, color
elements**

HT markup guide

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Colorval	.bg[colorval]	Inputs color value to bg tag. .bg#rrggbb inputs value of rrggbb (rgb val in hex) .bg:name inputs named color	Color name conversion in compiler Names: :[lcyn, cyn, lbrn, brn, lgrn, grn, blu, red, wht, blk, lvio, vio, gry]
Who,what, where,etc	.3ww .3ww .nq .3ww end .Who [text] .whatever [text]	Starts section Suppresses question mark, subs colon Ends section Prints as Who (minus dot) plus text Formats as whatever (minus dot) plus text	Formats as who?, what?, why? Etc.

Action	Tag	Does This - Details	Brk	Remarks
Inline Frame	.iframe URL	Supplies URL for frame contents	n	
	.hnn%	Frame height, in percent	n	
	.wnn%	Frame width, in percent	n	
	.bor[01]	Frame border 1/0	n	
	.fme	Frame end; ends this list of items	n	Text and other code allowed after this tag and before FME. Usage is to allow non-frame savvy browsers something to view. Usually this is a link to the URL called for the frame.
Frame Close	.fmc	Closes (finishes) frame	n	Last entry

Action	Tag	Does This - Details	Brk	Remarks
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Action	Tag	Does This - Details	Brk	Remarks
Lists OK to Nest OK within tables	.bl	Bullet list (UL)	B	
	.nl	Numbered list (OL)	B	
	.dl	Definition list (DL)	B	2-column list
	.cl	Compact list	B	Variant of .dl
	.il	Numbered list, roman numerals, lowercase	B	
	.Il	Numbered list, roman numerals, uppercase	B	
	.al	Alpha list, A-Z, lowercase	B	
	.Al	Alpha list, A-Z, uppercase		
	.dt text	Definition list term		Following text (next line) is definition data. Lines are offset.
	.li text	List item	B	Text can follow on next line.
	.le	List end	A	
List with embedded links	Code like this: .bl .li .link [link target] hotspot text .lke .le			Can also use .anav.
Definition list	Code like this: .dl .dt definition term definition data .le			Visual result has definition term on one line, definition data indented on the next line.

Action	Tag	Does This - Details	Brk	Remarks
Who, What, Where list (AES)	.3w .title [title str] .who [str] .what [str] .where [str] .when [str] .3w end	Prints as: Title str Who? [str] What? [str] Where? [str] When? [str]	Y	
3ww (generic who, what, where)	.3ww [.nq] .title [title str] .str1 [str] .str2 [str]3ww end	Prints as: Title str Str1? [str] Str2? [str] Etc.	Y	.nq supresses question marks after str1, str2, etc. and subs colon instead.

Action	Tag	Does This - Details	Brk	Remarks
Links	.alink [URL]	Makes a hotlink to URL. URL text is the hotlink text.		
	.link [text]	Creates a link to [text]		Trailing text up to link end tag becomes hot spot.
	.Link [text]	Creates a link to [text]	B	Trailing text up to link end tag becomes hot spot.
	.link .tagname hotspot	If .tagname, creates a hyperlink to #tagname using <i>hotspot</i> for the hotspot.		.link end not needed with .tagname note that .tagname is a dot command if .tagname is http: or mailto, then correct hyperlink inserted, otherwise a local tag on this page is assumed.
	.tag .tagname	Creates a hyperlink target of .tagname		Not used after .link; used by itself. In the document, this becomes the target of the link; i.e. click to go here . Tagname has a leading dot, (for consistency with the .link command)
	.lalt [text]	Alt text for link		Created by the compiler if not provided.
	.link end .lke	terminates a link		Alt: .link, or .lke

Action	Tag	Does This - Details	Brk	Remarks
Image	<p>Syntax: .link .http://www.aes.org website OR .link http://www.aes.org .alt aes website website .link end OR .link .king <i>target</i> .tag king</p>	<p>Result: Creates a hyperlink to http://www.aes.org using <i>website</i> as the hotspot. Supplies alt text This is the hotspot Creates the hyperlink to #king using <i>target</i> as the hotspot. King becomes the target #king</p>		<p>If the dot is present for the link destination, then the .link end command isn't needed If the dot isn't present, then the .link end command is needed. Dot with end is optional. Don't allow trailing space after 'end' .lke also works to end the command. Target is what you click on. Browser takes you to where #king is located.</p>

Action	Tag	Does This - Details	Brk	Remarks
	.img [src] .alt [alt txt] .title [title txt] .w[wid] .b[bor] .h[height] .a[tlcrbm] .ph[val] .pv[val] hw [height width] .wh [width height] .sc .h[height] .w[width] .nh[new height] .sc .h[height] .w[width] .nw[new width] <i>text</i>	Inserts a picture Src is the image file name If you don't provide alt text, the compiler creates it from Src Title works with IE and Mozilla (tool tip) Size units in pixels (no %) or percent(with%) .a[lcrbm] specifies image alignment:top, left, center, right, bottom, abs-middle Ph and vh add h and v padding around the image. <i>text</i> , by itself, becomes the hyperlink for that image.		Use multiple .img commands. The final command string isn't written until the img end tag is read. Note space between .alt command and its text arg. If using title and alt, put alt first, title 2 nd . Align left and right are the only alignment commands that work with inline text Text tag args must be on their own lines (alt) .b[arg], .bor[arg] are legal (compatibility) Imbed .img commands inside .link to make image into hyperlink source. Linking to create combo link/image.
	.img end	Ends image section.		Outputs img command line.
	Syntax: .img filename.bar .alt this is the alt text .bor3 .h200 .al .pv10 .img end	Result Produces an image using filename.bar, with alt text of "this is the alt text." 3 pixel border, 200 pixel height, 10 pixel vertical padding, align left. If you don't provide alt text, the compiler creates it from the link.		The only required items are: .img filename.bar .img end (no filenames of "end" allowed)

Action	Tag	Does This - Details	Brk	Remarks
Example	.linkimg [destination] .img [imagefile] .alt [text] .title [text] .w[wid] or .w [wid] .W[wid] or .W[wid] .h[height] or .h [height] .H[height] or .H [height] .hw [height width] .wh [width height] .h[height] or .h [height] .H[height] or .H [height] .sc .h[height] .w[width] .nh[new height] .sc .h[height] .w[width] .nw[new width] .a[tlcrbm] .ph[val] .pv[val] .bor[val] .lke	Creates an image that is the target for a link. .lke ends linked image section alt provides alt text. IE uses it for tool tips. Doesn't work with mozilla. Text provides tool tips for IE and Mozilla. Wh and hw allow entering height and width simultaneously .at, .al, .ac, .ar, .ab, .am		.b[arg], .b [arg], .bor[arg], .bor [arg] are all legal. Wid and height can = "default" Width and height settings are sticky. Using default restores them to their default values. Using H or W for height or width applies only for that instance; it prevents them from sticking. Use hw and wh instead of w and h Use SC instead of w, h, hw, or wh. Align top, left, center, right, bottom, middle
	Syntax: .img filename.bar .alt this is the alt text .bor3 .h200 .al .pv10 .img end	Result Produces an image using filename.bar, with alt text of "this is the alt text." 3 pixel border, 200 pixel height, 10 pixel vertical padding, align left. If you don't provide alt text, the compiler creates it from the link.		The only required items are: .linkimg filename.bar .img imagename.bar .lke filename.bar can be another image, another webpage, or a URL. you must provide both H and W dimensions to maintain aspect ratio

Action	Tag	Does This - Details	Brk	Remarks
Navigator Linked Lists Numbered Nav Section	.anav .v [.bullet, .compact] .anav [filename] [text] continuation text (if needed) .anav end	Creates a navigation section using the filenames supplied. Normal format is horizontal (across one line). Option .v makes the format vertical, and option .bullet creates a bulleted list of links, .compact compacts the finished form.		Links occur in order listed, using <i>text</i> as the hyperlink. [filename] can also be a hotlink target (needs leading dot). [text] becomes the hotlink. .p and .br are ok within. Bullet and compact options are not used together.
	.nav [lowest] [highest] [current] .next [filename] .prev [filename] .root [filename] .nav end	Creates a navigation section [lowest] is the lowest numbered file, highest is the highest numbered file, current is the current file number .next, prev, root all take filenames for their args.		Use at the end of a page. .root is the base filename used to create all other filenames. Other filenames are composed of the root filename plus a 2-digit number: i.e. foo01.htm, foo02.htm, foo03.htm, etc. .root is mandatory .next is optional (use if next is not based on root) .prev is optional (use if prev is not based on root)
Image Map	.imgmap [image source] .title [title] .h[image height] .w[image width] .a[lrc] .bor[border value] .map [mapname] .imgmap end	Identifies an image that will have a map of hotspots within. Note that h, w, a, bor, commands have no space between them and their argument. .map identifies a named map to be used with this image. The # character is not needed.		Elements must be in order: Imgmap Imgmap commands Imgmap end Mapname Area Area commands Area end imgend
	.mapname [map name]	Identifies a specific named map.		

Action	Tag	Does This - Details	Brk	Remarks
	.area [shape] [coords] .target [target name] .title [title text] .area end	Defines a hotspot Area: see AREA html command Target: names destination for this hotspot.		Area coords given as comma sep list, no spaces. For circle, coords: x,y,radius
	.imgend	Closes imgmap command.		
Email	.email [address] [target] .email [addr] .subj [subject string] .tag [tag string] .st [status line string] example: .email foo@bar.com foo the bar .email foo@bar.com .subj [AES]%20website email .tag email the webmaster	Address is the email address of the recipient; i.e foo@bar.com Target is the name visible in the link. Second form adds a subject string to embed into the message header. Embedded spaces must be escaped with %20. Status line string can be .tag, then the status line is the same as the tag of the link.	no	Produces a mailto: link to someone's email address. N.B uses <i>javascript</i> to hide the person's email address from search bots.

Action	Tag	Does This - Details	Brk	Remarks
<p>.popup .link or .popup .linking</p>	<p>Syntax: .popup [params] <i>Params</i> may be: .whnn, .wwnn, .rs, .sb, .st .mb .wh[height] .ww[width] .rs – resizable .sb – scroolbars .st - status bar .mb – menu bar .tb – toolbar .dep – dependent .nm[name]</p>	<p>Result: Turns the following link or linking statement into a popup window.</p>		<p>Uses <i>JavaScript</i> May not work in all browsers This command must immediately be followed by .link or .linking</p>
<p>.popup</p>	<p>Syntax: .popup .new</p>	<p>Result: Causes the following link to open in a new browser window.</p>		<p><i>No Javascript</i> Must be followed by .link or .linking</p>
<p>Close button</p>	<p>.button .close</p>	<p>Adds a ‘close window’ button</p>		<p>Uses <i>Javascript</i>. Not necessarily an initial command.</p>
<p>Link button</p>	<p>.button .text [button text] .link [URL]</p>	<p>Creates a button that links to URL</p>		<p>.text and .link args can be reversed. Spaces not allowed in URL Uses <i>Javascript</i>.</p>

Action	Tag	Does This - Details	Brk	Remarks
Table	.table .cols.C .w[W] .border[B] [end] .cell[pad] cells[sp] .rha[lcrjd] .cha[lcrjd] .rva[tmbB] .cva[tmbB] .bkg [filename] .bg[colorval] .bc[colorval], .csp[cols], .rsp[rows], .nw, .ta[lcr]	Begins a table. C is colspec in the form: Lnn.Rnn.Cnn; W is width(pixels), B is border width, .cell is cellpadding(pixels), cells is cellspacing(pixels), .rha, .cha, .rva, .cva are all global positioning commands for cell contents. .ta is horizontal alignment for table. .csp, .rsp are column or row span .bkg [filename] uses <i>filename</i> for the table background .bg[colorval] uses <i>colorval</i> for the table background .nw turns off wrapping End arg terminates table	B	Tables can be nested. Omit B for no borders C is over-ridden for individual column widths. Params on single line. [lcr] = left, center, right [lcrjd] = left, center, right, justified, decimal [tblr] = top, bottom, left, right [tmbB] = top, middle, bottom, Baseline rha = row, horiz align cha = col, horiz align rva = row, vert align cva = col vert align
	.cap <i>text</i> .bcap <i>text</i>	Adds a caption above the table Adds a caption below the table		Caption in bold font.
	.row .span[N] .rva[tblr] .rha[tmbB] .bc[colorval] .bg[colorval]	.span creates rowspan of N rows .rva, .rha used for local vert/horiz alignment.		Starts a new row. .sp allowed for .span Rva, rha args same as global ones.

Action	Tag	Does This - Details	Brk	Remarks
	.col[width] .span[N] .mt .ha[lcr] .va[tmbB] .rsp[N] .csp[n] .bc[colorval] .bg[colorval] .col text	Width arg is optional. Can be percent (use %) or pixels (no %) .span creates colspan of N cols. .mt creates empty cell .ha, .va used for local vert/horiz alignment .rsp[N] creates rowspan of N rows .csp[N] creates colspan of N cols. <i>Text</i> is column text.		Represents column width in percent. Text can wrap to next line(s) Cha, cva args same as global ones
	.colh[width] .span[N]	Column heading.		Same other args as .col
Example	Syntax: .table col3 .w80% .border5 .cell5 .row .colh .span2 Column 1 Head .colh Column 3 Head .row .col data 1 .col data 2 .table end	Result: Creates 3 column table, 80% of page width, with 5pixel border and 5 pixel cell padding. The first 2 cells on the left are spanned, and this top row are all column heads. The 2 nd row is data.		

Action	Tag	Does This - Details	Brk	Remarks
Global Borders	.gbor [0-9]	Turns borders on all tables.		Overrides local table border settings. Useful for troubleshooting. Each table's border gets its own color.

These codes add a ShockWaveFlash mp3 player. The two menu options require an additional file containing the playlist.

Action	Tag	Does This - Details	Brk	Remarks
SWF multi-file player	.swfplayer	begins	N	All player insertions need this
	.multi .menu/.nomenu .fn:[filename] .ap:[yes/no]	Declares multi player menu/no menu turns menu on/off fn:declares filename ap: sets autoplay	N	Plays multiple files from a playlist Order of args doesn't matter.
Single player	.single [filename]	Filename is mandatory	N	Plays one file only
Mini player	.mini [filename]	Filename is mandatory	N	Plays one file only, mini size
End player	.swfend	ends	N	All player insertions end with this.

XML file structure for multi-file players:

```
<?xml version="1.0" encoding="UTF-8"?>
<xml>
  <track>
    <path>song.mp3</path>
    <title>Track 1</title>
  </track>
  <track>
    <path>song.mp3</path>
    <title>Track 2</title>
  </track>
</xml>
```

Picture page preprep tool (imgpgfmt)

HT markup guide

Last revised: 7/14/2008

This tool takes a list of filenames and converts them into pipe delimited form, for use with the AES picture page tool. The format is a table of thumbnail images, linked to a larger version. You have the option of forcing the browser to scale the large image to thumbnail size or to use a separate thumbnail image.

All commands are sticky; they remain as set until changed.

Output field order is: %s|%s|%s|%s|%s large filename|caption|width|height|thumbfilename if link set

Output field order is: %s|%s|%s|%s large filename|caption|width|height if link not set

The output of this tool is not HT, but is an intermediate form that the picture page tool can use.

Action	Tag	Does This - Details	Brk	Remarks
Page header	.header [.pc txt] [.t txt]	Blows in a typical header as used by the AES picture page tool.	N/A	This needs to be first. .pc and .t are optional T becomes page title
Linking	.li	Turns on thumbnail linking, from field 1 to field 5 in output.		Use when thumbnails use same directory as large images.
Comment	# at left margin	Comment character, as in awk		
Title	.t [text]	Pass thru to next program		Don't use if .header is present
Table Head	.th [text]	Pass thru to next program		
Photo Caption	.pc [text]	Pass thru to next program		Don't use if .header is present.
Landscape	.ls	Use height as height, width as width		Default. Use this to revert after portrait
Portrait	.port	Use width as height, height as width		
Break	.p	Breaks current table, starts new one.		
Thumbnail directory name	.tn [directory name]	Names the directory where thumbnail images are found.		

Large image directory name	.large [directory name]	Names the directory where full-sized images are found		
Filename for caption	.fn	Uses the filename for the caption text.		
Caption	.cap [text]	Use remainder of input line for picture caption.		
Height Width	.hw [height] [width]	Sets height and width simultaneously.		Assume landscape format for default.
Height	.h [height]	Sets height		Pixel measurements
Width	.w [width]	Sets width		Pixel measurements
END	.end	Stops processing		
Debug	.dbg [0,1]	Toggle debug mode		Outputs variable contents for every input line.

AES Picture Page tool (AESIMG)

HT markup guide

Last revised: 7/14/2008

This tool converts a pipe-delimited list of files into a HT table. The intended use is for displaying pictures in grid format.

If you use the .t command, then the output (after HT -> HTML conversion) is a ready-to-use webpage. Without it, only the table code is produced.

Action	Tag	Does This - Details	Brk	Remarks
Comment	..		B	
Date	.d [text]	Converts to: Meeting held [text]	B	Use for date and place.
Table Head	.th [text]	Prints spanned row at the beginning of the next row.		
Photo Caption	.pc [text]	Photo credit. Printed at end of photo table spanning all columns.	B	
AES Specific stuff	.aes	Inserts specific AES links into page.		
Banner	.banner	Inserts PNW AES picture page stuff		
Page Style	.style [n]	Sets style for page		1 = 2-col, photos left, captions right 2 = 2-col, captions left, photos right 3 = multi-column, captions below photo
Table Width	.tw [nn]	Sets table width (pixels)		Overall table width
Table Cell Alignment	.tca [lcr lcr ...]	Left, center, right alignment for cell		Pipe delimited, as many as there are cells across.
Linkimage	.li [0,1]	If zero, pictures are just presented. If one, pictures are hotlinked		If li is 1, then the hotlinked filename (the one that shows by default) comes from field5 in the images file. If field5 is blank, then the filename in field1 is used.

Action	Tag	Does This - Details	Brk	Remarks
Title	.t [text]	Causes title of page setup		Includes banners, etc. [text] is descriptive text for photo page; i.e. description of photo subject Behaves differently if .aes used first.
Number of Columns	.nc [n]	N can = 2, 3, 4 or 5. Default is 2.		
Column Width	.cw [w w w ...] or .cw [wid]	sets width of column		w w w is in percent. You must include the % signs.
Images	.i .ie	Images begin Images end		Pipe delimited format: Filename description width height linked image
Source for Alt Text	.flip [0,1,2,3]	Determines which filename to use for alt text.		0 - turns off / resets 1 - makes filename (field 1) = alt text 2 - makes filename2 (field5) =n alt text 3 - makes alt text same as caption text.
Debug	.dbg [level]	For debugging		

Image Page Markup Sample

```
..fn|caption|wid|ht
.dbg 0
.t Opus 4 Studios with LARES
.d March 19, 2002 at Opus 4 Studios
.tca c|c|c
.cw 20%|40%|40%
.tw 600
.li 1
.style 3
.nc 3
.i
img_1079.jpg|Chair Aurika Hays opens the meeting||200
img_1085.jpg|Dr. Michael Matesky describes his goals for the studio||200|
img_1090.jpg|Steve Barbar describes the LARES system||200
img_1094.jpg|About 45 people attended this meeting.||200
img_1097.jpg|An attendee checks out the rack wiring||200
img_1098.jpg|Rick Chinn and Bob Gudgel, PNW AES Commitee members discussing something with attendees Zak Dewey and David Dewey.||200
img_1101.jpg|The LARC remote control for the 480L reverberator||200
img_1116.jpg|Steve Barbar proceeds to 'build a room' ||200
img_1112.jpg|Kyung Sun Chee and Dr. Matesky perform for the group while Steve Barbar adjusts room parameters.||200
img_1126.jpg|Michael Matesky Jr. checks a patch.||200
.ie
```


Tag	Element of	Descr		
.desc	Initial			
.author	Initial			
.keywords, .keywords end	Initial			
.ver	Initial			
.bf	Initial			
.t, .title	Initial			
.begin	Initial			
.redir	Initial			
.bfn	Initial			
.robots	Initial			
.pt	Initial			
.button	Initial			
.bl	Lists	Bullet List		
.li	Lists	List item		
.nl	Lists	Numbered List		
.dl	Lists	Definition List		
.le	Lists	List end		
.table	Tables	Table start		
.table end	Tables	Table end		
.row	Table			
.col	Table			
.span[n]	table			

.bc[colorval]	Table	border color		
.bkc[colorval]	Page	Background color		
.style [arg]	Styles			
.begin	Page			
.title	Page			
.h[0-9]	Paragraph			
.font	Character			
.bold	Character			
.ital	Character			
.pt[0-9]	Paragraph, page			
.link	Links			
.link end	Links			
.lke	Links			
.linking	Links			
.img	Links			
.img end	Links			
.ph	Links			
.pv	links			
.title	Links			
.title	Image			
.bor	Image			
.bor	Table			
.keywords	Page			
.keywords end	Page			
.bf	Page, character			
.button .close	Page			
.under	Character			

.fix	Character			
.em	Character			
.face	Character			
.dms	Character			
.bq	Paragraph			
.lit [on,off]	Paragraph			
.ds	Paragraph			
.de	Paragraph			
.nw [off]	Paragraph			
.nw				
.Nw	Paragraph			
.NW	Paragraph			
.left	Alignment			
.center	Alignment			
.right	Alignment			
.T [text]	Appearance, page			
.T				
.p	Paragraph, appearance			
.title	Page			
.br	Paragraph, appearance			
.Br				
.sp[0-9]	Appearance			
.. [text]	Comment			
... [text]	Comment, Non printing			
.prcmt [1,0]	Comment, print toggle			
.cmt	Comment, toggle			
.lm	Page			
.line	Appearance			

\.	Character			
.redir URL	Page			
.bg#[rbbgg] .bg:[colorval]	Appearance, page, character, paragraph			
.bc	Table			
.cl	Lists			
.il	Lists			
.Il	Lists			
.al	Lists			
.alink	Links			
.tag <i>tagname</i>	Links			
.lalt	Links			
.alt [text]	images			
.w[wid]	images			
.b[bor]	images			
.h[height]	Images			
.a[lcrbm]	Images			
.ph[val]	Images			
.pv[val]	Images			
<i>text</i>	Images			
.alt [text]	Links			
.w[wid]	Links			
.b[bor]	Links			
.h[height]	Links			
.a[lcrbm]	Links			
.ph[val]	Links			
.pv[val]	Links			
<i>text</i>	Links			

.anav .v .bullet .compact	Links			
.anav [filename] [text]	Links			
.anav end	Links			
.nav [lowest] [highest] [current]	Links			
.next [filename]	Links			
.pref [filename]	Links			
.root [filename]	Links			
.nav end	Links			
.email [addr] [target]	Links, email			
.subj [text]	Links, email			
.tag [text]	Links, email			
.popup	Links			
.popup .new	Links			
.colsC	Table			
.w[w]	Table			
.border[B] .bor[B]	Table			
.cell[pad] .cellp[pad[Table			
.cells[spacing]	Table			
.rha[lcrjd]	Table			
.cha[lcrjd]	Table			
.rva[tcbB]	Table			
.cva[tcbB]	Table			
.bkg [file]	Table			
.bg[colorval]	Table			
.bc[colorval]	Table			

.csp[cols]	Table			
.rsp[rows]	Table			
.nw	Table			
.ta[lcr]	Table			
.cap text	Table			
.bcap text	Table			
.rva[tblr]	Table, row			
.rha[tcbB]	Table, row			
.bc[colorval]	Table, row			
.bg[colorval]	Table, row			
.span[n]	Table, col			
.col[width]	Table, col			
.mt	Table, col			
.ha[lcr]	Table, col			
.va[tcbB]	Table, col			
.rsp[N]	Table, col			
.csp[n]	Table, col			
.bc[colorval]	Table, col			
.bg[colorval]	Table, col			
.col [text]	Table, col			
.colh [width] .span[n]	Table, col			
.gbor[0-9]	Table			
.d [txt]	Picture generator			
.pc [txt]	Picture generator			
.aes	Picture generator			
.style [n]	Picture generator			
.tw [nn]	Picture generator			
.tca [lcr lcr lcr ...]	Picture generator			

.li [0,1]	Picture generator			
.t [txt]	Picture generator			
.nc [n]	Picture generator			
.cw [w% w% w% ...] .cw [wid%]	Picture generator			
.i	Picture generator			
.ie	Picture generator			
.flip [0,1,2]	Picture generator			
.dbg [level]	Picture generator			