Emacspeak The Complete Audio Desktop

User Manual

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1 Copyright

This manual documents Emacspeak, a speech extension to Emacs.

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2 Announcing Emacspeak Manual 2nd Edition As An Open Source Project

This is to announce the launch of a new open source project to create a user manual for Emacspeak — an Emacs speech extension that provides a complete audio desktop.

2.1 How To Contribute To This Manual

This manual is organized as a series of chapters, with each chapter in a separate file. If you feel capable of contributing to a specific section, send out a message to the Emacspeak mailing list mailto:emacspeak@cs.vassar.edu. You can then start adding content to a local copy of the chapter to which you are contributing. When you feel you have something to submit, mail out the file to the emacspeak mailing list — I'll integrate new content as it comes in.

2.2 Authoring Guidelines

For this manual to hang together and make sense to the new user at whom it is targeted, contributors need to stick to a consistent style. If you plan to contribute content, you should take some time to read the existing sections — note that many of these are skeletal and the first contributions will be to flesh these sections out.

If you are familiar with texinfo, go ahead and mark up your content using texinfo. If you are not, simply author the documentation you create as plain formatted ASCII. If you do submit files as texinfo source, make sure to validate them at your end first by running the files through makeinfo — badly created or malformed texinfo source takes more time to fix than marking up straight text.

2.3 Credits

This initial version draws heavily from the original Emacspeak user manual, and includes contributions from Jim Van Zandt and Jason White. Authors who contribute complete sections will be acknowledged here as well as in the specific section they author.

3 Background

Emacspeak was originally developed in late 1994 and released as Open Source in May 1995. Since then, the system has been regularly updated every six months to provide an up-to-date *Audio Desktop*. Here is a brief overview of some of the significant aspects of the system, and the lessons learnt from its development and use. The work on Emacspeak was presented at CHI96 and the co-located Assets96 conference in Vancouver, BC. This overview is being written nearly 15 years later to trace the impact of the work.

3.1 Speech-Enabling Applications

The underlying thesis behind AsTeR (Audio System For Technical Readings) and later Emacspeak is that information is display-independent. This leads to the insight that producing auditory renderings of information starting from the true source of that information often produces better renderings than those that result from working from a modality-specific representation; thus, attempting to speak visually rendered information can often prove sub-optimal. AsTeR applied these ideas to documents authored in LATEX; Emacspeak generalized these ideas to user interfaces.

Emacspeak was therefore designed from the ground-up to enable applications generate their own spoken feedback, rather than having an external software program construct the spoken feedback by responding to events in its environment.

In Emacspeak, theory meets practice to deliver a working implementation; Emacspeak leverages the power of Emacs and its embedded Lisp interpreter to inject spoken feedback into applications that run within Emacs. For a detailed overview on how the *advice* mechanism in Emacs is used, see the original Assets96 paper, as well as the chapter on Emacspeak in the OReilly publication entitled Beautiful Code (http://emacspeak.sourceforge.net/raman/publications/bc-emacspeak/publish-emacspeak-bc.html).

3.2 Audio Formatting And Aural CSS

AsTeR introduced the notion of audio formatting a concept analogous to the well-understood notion of visual formatting. The work on AsTeR coincided with the Web being at its infancy. As the Web evolved to acquire Cascaded Style Sheets (CSS), ideas from AsTeR were used to define Aural CSS as an appendix to CSS1 in 1995. Emacspeak proved an ideal platform to prototype the ideas within Aural CSS — first within the Emacs/W3 browser. Around this time, Emacs itself evolved to support multiple fonts and font-locking to implement syntax coloring for various types of content. Emacspeak applied the ideas of audio formatting to create the auditory analog of font-lock — Emacspeak calls this voice locking.

Voice locking in Emacspeak continues to be a unique feature among systems that provide auditory feedback. Later in 1997, Emacspeak's implementation was overhauled to use Aural CSS for all aspects of voice-locking, rather than just for Web content.

3.3 Auditory Icons

Emacspeak augments spoken feedback with short auditory icons that vastly speed up interaction. Combined with audio formatting, the resulting experience is analogous to moving

from a monochrome character-cell display to a high-quality color display — the overall user experience is rich in comparison. This enabled Emacspeak to explore innovative means of auditory communication — as an example, see my Assets-98 paper entitled *Conversational Gestures For The Audio Desktop* that details how one can play Tetris on the Emacspeak desktop.

3.4 Summary

The lessons learnt from developing Emacspeak are many — here are a few highlights:

- A model for browsing tabular data see relevant chapter in my book *Auditory User Interfaces*
- Audio formatting and Aural CSS
- Auditory icons for efficient feedback.
- Web widgets for rapid task completion on the Web.

And many more than will fit this margin.

4 Introduction

Emacspeak provides a complete audio desktop by speech-enabling all of Emacs.

In the past, screen reading programs have allowed visually impaired users to get feedback using synthesized speech. Such programs have been commercially available for a long time. Most of them originally ran on PC's under DOS, and have moved over to the Windows environment. However, screen-readers for the UNIX environment have been conspicuous in their absence. Note that this is now changing with the availability of console-level Linux screenreaders such as speakup. Such Linux screenreaders provide the same level of UNIX accessibility provided in the late 80's by PC terminal emulators running a DOS screenreader. This means that most visually impaired computer users face the additional handicap of being DOS-impaired — a far more serious problem:-)

Emacspeak is an emacs subsystem that provides complete speech access. It is *not* a screen-reader — rather, it is a complete user environment with built-in speech feedback. Emacspeak has a significant advantage; since it runs inside Emacs, a structure-sensitive, fully customizable environment, Emacspeak has more context-specific information about what it is speaking than its screenreader counterparts. This is why Emacspeak is not a "screenreader", it is a system that produces speech output.

A Traditional screen-reader speaks the content of the screen, leaving it to the user to interpret the visual layout. Emacspeak, on the other hand, treats speech as a first-class output modality; it speaks the information in a manner that is easy to comprehend when listening.

The basic concepts used by Emacspeak are simple; all interactive Emacs commands have been adapted to provide speech feedback. Hence, you use Emacs as normal; Emacspeak works behind the scene to give audio feedback in addition to updating the screen.

Emacspeak consists of a core speech system that provides speech and audio services to the rest of the Emacspeak desktop; application-specific extensions provide context-specific spoken feedback using these services. Emacspeak currently comes with speech extensions for several popular Emacs subsystems and editing modes. I would like to thank their respective authors for their wonderful work which makes Emacs more than a text editor¹.

¹ I have now been using Emacspeak under Linux as the only source of speech feedback since 1994.

5 Installation Instructions

This chapter gives brief and detailed installation instructions for configuring, installing and starting Emacspeak.

5.1 Obtaining Emacspeak

Emacspeak is available on the Internet at:

WWW http://emacspeak.sourceforge.net

Git Repository

https://github.com/tvraman/emacspeak

Mail List emacspeak@cs.vassar.edu

List Request

emacspeak-request@cs.vassar.edu

The Emacspeak mailing list is maintained by Greg E. Priest-Dorman. If you are using Emacspeak, you should join the list by sending mail to the request address, mailto:emacspeak-request@cs.vassar.edu.

5.2 Quick Installation

Here are the quick installation instructions. See the next section for detailed installation instructions.

Packages for Linux distributions such as Debian typically become available on the WWW a few weeks or months after a new version is released. The instructions below are for building and installing Emacspeak from the source distribution. If you install one of the prepackaged distributions, use the install instructions that come with that package.

Obtain the source code — either by downloading the tar.bz2 file for the latest release
 — or by cloning the git repository.

git clone https://github.com/tvraman/emacspeak

- Change to the emacspeak directory.
- Type 'make config' to configure the sources.
- Type 'make' to compile the files.
- Next, decide which text-to-speech engine you will be using, and proceed to install that engine. Your choices are:
 - Open Source ESpeak on Linux. Install the ESpeak packages for your system, then compile the Emacspeak ESpeak server by doing:

```
cd servers/native-espeak
make
```

• ViaVoice Outloud (AKA Eloquent). You need to purchase this engine from the voxin site. That purchase will give you install-ready packages for installing the speech engine as well as Emacspeak. See https://voxin.oralux.net/rss.xml for the latest packages, and https://voxin.oralux.net for the main Voxin Web site.

- On the Mac, you can use the builtin Mac TTS engine emacspeak comes with a speech server for that TTS engine written in Python.
- Having installed and configured the TTS engine of your choice, and having built the
 associated speech server, set Emacspeak up to use that engine by setting environment
 variable DTK_PROGRAM. If using bash as your shell, add the line

```
export DTK_PROGRAM=<engine-name>
```

to your .bash_profile.

As an example, to use ESpeak, add

export DTK_PROGRAM=espeak

• Run it by adding the line

```
(load-file "<emacspeak-dir>/lisp/emacspeak-setup.el")
```

to the top of your .emacs file.

In the above, <emacspeak-dir> refers to the directory where you unpacked the sources.

See the next section for details on building and testing the speech server.

5.3 Building And Testing The Speech Server

5.3.1 Speech Servers

Speech servers are located in the emacspeak/servers directory.

- ESpeak: servers/espeak. This is a TCL script that uses a library built in servers/native-espeak/.
- Dectalk: servers/dtk-exp. This is a TCL script that does not depend on any native code.
- Outloud: servers/outloud or servers/32-outloud (for 64-bit machines). This is a TCL script that uses the library built in servers/linux-outloud. Note that a checkout from GitHub gives you a prebuilt library however you will need to purchase the TTS engine from http://voxin.oralux.net.
- Mac: servers/mac. This is a Python script that binds to the native Mac TTS.

5.3.1.1 Testing The Selected Server.

Once you have picked the TTS engine to use, run the selected server script at a shell prompt, e.g. for the espeak engine, execute:

```
./servers/espeak
```

This will result in a TCL prompt. Here, you can test the TTS engine by typing

```
q "this is a test."
d
```

You should hear the TTS engine speak the text.

Type s to stop speech. You should see a TCL prompt when you execute it.

Quit this TCL session by typing C-d (an end-of-file character).

6 Basic Usage.

This chapter gives an overview of how to use Emacspeak; for a full listing of Emacspeak keybindings, see See Section 12.8 [emacspeak], page 55. Note: This documentation should be used in conjunction with the online Emacs info pages that extensively document Emacs itself. These sections briefly describe the speech-enabling extensions. However, they should not be considered a substitute for reading the Emacs manual. How successfully you use Emacspeak will depend on how well you learn your Emacs.

All Emacs navigation and editing commands have been speech enabled. Thus, moving to the next or previous word, line or paragraph results in the text around point being spoken. Exactly how much text is spoken is determined by the amount by which you moved.

In addition, Emacspeak provides basic reading functions that can be invoked to listen to chunks of text without moving.

6.1 Emacspeak Overview

Emacspeak provides a small number of core services around which the remainder of the audio interface is constructed. These essential features of the software are briefly outlined in the following paragraphs; the commands by which they can be controlled will be described later in the manual.

Apart from providing a fluent spoken interface to all of Emacs' basic editing functions, Emacspeak also includes software modules which add speech feedback to a range of applications that can be run from within Emacs. In this sense, Emacspeak amounts to much more than a talking text editor; indeed, it can more aptly be characterized as a true "audio desktop", in which speech is treated as a first-class output modality.

Emacspeak implements a special minor mode, known as "voice lock mode" (see Section 6.5 [Voice-lock], page 16) which uses distinct speech characteristics to provide aural highlighting of specific textual constructs, such as comments in program code, quoted strings and reserved words See (undefined) [Voice Lock], page (undefined). This facility is further extended when Emacspeak is used with the EWW and W3 Web browsers, to enable the semantic and structural distinctions captured by the HTML markup to be communicated efficiently See Section 10.4 [Web Browsing], page 30.

It is often desirable to exercise control over the pronunciation of a word (E.G. a technical term or a reserved word in a programming language) within specific contexts. Emacspeak maintains pronunciation dictionaries for this purpose, which may be customized by the user. Moreover, individual dictionaries can be activated selectively, depending for example on the current major mode or the name of the file which is being visited See Section 12.146 [emacspeak-pronounce], page 167.

In addition to spoken feedback, Emacspeak can generate "auditory icons" — short sound cues which alert the user to significant events, for example the opening or deletion of a file, the completion of an action, the arrival of an electronic mail message or the creation of a completion buffer. Sound cues act as a supplement to the spoken interface, and are especially valuable to the experienced user in facilitating rapid interaction. Note that in order to support auditory icons, the computer must be equipped with sound hardware for which the operating system has been correctly configured See Section 12.173 [emacspeak-sounds], page 173.

6.2 Using Emacs Buffers

While typing in an Emacs buffer, hitting space speaks the recently typed word. I use completion all the time; so Emacspeak will speak the completion just inserted as well as the next possible completion. In Emacs, use M-x load-library RETURN completion RETURN for loading the completion package.

The standard Emacs prompting functions have also been speech-enabled. Emacs prompts with available lists of completions in response to partial input wherever appropriate — all forms of completion provide speech feedback.

In addition, Emacspeak provides a number of commands for reading portions of the current buffer, getting status information, and modifying Emacspeak's state.

All of the commands are documented in the subsequent sections. They can be classified into types:

- Emacspeak commands for listening to chunks of information. The names of these commands all start with the common prefix emacspeak-speak-. All Emacspeak commands are bound to the keymap emacspeak-keymap and are accessed with the key $C-e^1$. Thus, the Emacspeak command emacspeak-speak-line is bound to 1 in keymap emacspeak-keymap and can be accessed with the keystroke C-e 1. If for some reason you wish to use some key other than C-e as the common keyboard prefix for all Emacspeak commands, set the variable emacspeak-prefix.
- The second category of commands provided by Emacspeak manipulate the state of the speech device. The names of these commands start with the common prefix dtk- and are bound in keymap emacspeak-dtk-submap.

You can access these commands via the prefix C-e d^2 . Thus, the command dtk-set-rate is bound to r in keymap emacspeak-dtk-submap and can be executed by pressing C-e d r.

Emacs has extensive online help; so does emacspeak. Please use it.

This info manual is only to get you started. You can get a summary of Emacspeak's features by pressing C-h C-e

6.3 Reading Without Moving

Emacspeak speaks information as you move around within a buffer. How much text is spoken depends on how you move, thus, when you move by words, you hear the current word; when you move by paragraphs, you hear the current paragraph spoken. In addition, the following commands allow you to listen to information without moving point (point is emacs terminology for the editing cursor).

Reading without moving point:

C-e c emacspeak-speak-char

Speak character under point. Pronounces character phonetically unless called with a PREFIX arg.

¹ C-e is mnemonic for Emacspeak.

 $^{^2}$ Historically, d was mnemonic for Dectalk; note that nothing in Emacspeak is DECTalk specific.

C-e w emacspeak-speak-word

Speak current word. With prefix ARG, speaks the rest of the word from point. Negative prefix arg speaks from start of word to point. If executed on the same buffer position a second time, the word is spelled instead of being spoken.

C-e 1 emacspeak-speak-line

Speaks current line. With prefix ARG, speaks the rest of the line from point. Negative prefix optional arg speaks from start of line to point. Voicifies if option 'voice-lock-mode' is on. Indicates indentation with a tone or a spoken cue if audio indentation is in use. Indicates position of point with an aural highlight if option 'emacspeak-show-point' is turned on — see command emacspeak-show-point bound to C-e C-d. Lines that start hidden blocks of text, e.g. outline header lines, or header lines of blocks created by command 'emacspeak-hide-or-expose-block' are indicated with auditory icon ellipses.

C-e UP emacspeak-read-previous-line

Read previous line, specified by an offset, without moving. Default is to read the previous line.

C-e DOWN emacspeak-read-next-line

Read next line, specified by an offset, without moving. Default is to read the next line.

C-e p emacspeak-speak-paragraph

Speak paragraph. With prefix arg, speaks rest of current paragraph. Negative prefix arg will read from start of current paragraph to point. If voice-lock-mode is on, then it will use any defined personality.

C-e r emacspeak-speak-region

Speak current region delimited by *point* and *mark*. When called from a program, argument START and END specify region to speak.

C-e cap R emacspeak-speak-rectangle

Speak a rectangle of text. Rectangle is delimited by point and mark. When call from a program, arguments specify the START and END of the rectangle.

C-e b emacspeak-speak-buffer

Speak current buffer contents. With prefix ARG, speaks the rest of the buffer from point. Negative prefix arg speaks from start of buffer to point. If voice lock mode is on, the paragraphs in the buffer are voice annotated first, see command emacspeak-speak-voice-annotate-paragraphs. This provides the auditory equivalent of *dropped caps* from visual typography.

C-e n emacspeak-speak-rest-of-buffer

Speak remainder of the buffer starting at point

C-e / emacspeak-speak-this-buffer-other-window-display

Speak this buffer as displayed in a different frame. Emacs allows you to display the same buffer in multiple windows or frames. These different windows can display different portions of the buffer. This is equivalent to leaving a book open at places at once. This command allows you to listen to the places where you have left the book open. The number used to invoke this command specifies which of the displays you wish to speak. Typically you will have two or at most three such displays open. The current display is 0, the next is 1, and so on. Optional argument ARG specifies the display to speak.

C-e LEFT emacspeak-speak-this-buffer-previous-display

Speak this buffer as displayed in a 'previous' window. See documentation for command emacspeak-speak-this-buffer-other-window-display for the meaning of 'previous'.

C-e RIGHT emacspeak-speak-this-buffer-next-display

Speak this buffer as displayed in a 'previous' window. See documentation for command emacspeak-speak-this-buffer-other-window-display for the meaning of 'previous'.

C-e [emacspeak-speak-page

Speak a page. With prefix ARG, speaks rest of current page. Negative prefix arg will read from start of current page to point. If option 'voice-lock-mode' is on, then it will use any defined personality.

C-e DIGIT emacspeak-speak-predefined-window

Speak one of the first 10 windows on the screen. In general, you'll never have Emacs split the screen into more than two or three. Argument ARG determines the 'other' window to speak. Speaks entire window irrespective of point. Semantics of 'other' is the same as for the builtin Emacs command 'other-window'.

C-e C-n emacspeak-speak-next-window

Speak the next window.

C-e C-p emacspeak-speak-previous-window

Speak the previous window.

emacspeak-speak-other-window

Speak contents of 'other' window. Speaks entire window irrespective of point. Semantics of 'other' is the same as for the builtin Emacs command 'otherwindow'. Optional argument ARG specifies 'other' window to speak.

ESCAPE UP emacspeak-owindow-previous-line

Move to the next line in the other window and speak it. Numeric prefix arg COUNT specifies number of lines to move.

ESCAPE DOWN

emacspeak-owindow-next-line

Move to the next line in the other window and speak it. Numeric prefix arg COUNT can specify number of lines to move.

ESCAPE next

emacspeak-owindow-scroll-up

Scroll up the window that command 'other-window' would move to. Speak the window contents after scrolling.

ESCAPE prior

emacspeak-owindow-scroll-down

Scroll down the window that command 'other-window' would move to. Speak the window contents after scrolling.

emacspeak-speak-sexp

Speak current sexp. With prefix ARG, speaks the rest of the sexp from point. Negative prefix arg speaks from start of sexp to point.

C-e meta C-@

emacspeak-speak-spaces-at-point Speak the white space at point.

6.4 Speech System Commands

This section documents Emacspeak's various user commands for controlling the text to speech (TTS) system.

6.4.1 Character, Word And Line Echo.

By default, Emacspeak speaks characters as they are typed — this is called character echo; Words are spoken as they are completed — this is called word echo. Emacspeak can also optionally speak each line as it is typed — this is called line echo.

Character, word and line echo can be toggled — either in the current buffer — or for all buffers (globally). To toggle the specific echo functionality for all buffers, precede the specific command with C-u. Note that in the documentation below, this use of C-u is indicated using the common Emacs terminology of prefix arg or interactive prefix arg.

C-e d k emacspeak-toggle-character-echo

Toggle state of Emacspeak character echo. Interactive PREFIX arg means toggle the global default value, and then set the current local value to the result.

C-e d w emacspeak-toggle-word-echo

Toggle state of Emacspeak word echo. Interactive PREFIX arg means toggle the global default value, and then set the current local value to the result.

C-e d l emacspeak-toggle-line-echo

Toggle state of Emacspeak line echo. Interactive PREFIX arg means toggle the global default value, and then set the current local value to the result.

6.4.2 Setting TTS Characteristics.

Emacspeak user commands can set different characteristics of the speech output such as speech rate and punctuations mode.

Emacspeak provides a number of settings that affect how attributes of the text such as capitalization are conveyed. These include settings that produce a short tone for each upper case letter, as well as a smart mode for speaking mixed case words which is especially useful when programming. These settings can be made locally in a given buffer or be applied to all buffers by preceding these commands with C-u.

C-e d r dtk-set-rate

Set speaking RATE for the TTS. Interactive PREFIX arg means set the global default value, and then set the current local value to the result.

C-e d f dtk-set-character-scale

Set scale FACTOR for speech rate. Speech rate is scaled by this factor when speaking characters. Interactive PREFIX arg means set the global default value, and then set the current local value to the result.

This function is advised.

Before-advice 'emacspeak-auto': Automatically defined advice to speak interactive prompts.

C-e d DIGIT

dtk-set-predefined-speech-rate

Set speech rate to one of nine predefined levels using digit keys 0 through 9. Interactive PREFIX arg says to set the rate globally.

C-e d p dtk-set-punctuations

Set punctuation mode to MODE. Possible values are 'some', 'all', or 'none'. Interactive PREFIX arg means set the global default value, and then set the current local value to the result.

C-e d m dtk-set-pronunciation-mode

Set pronunciation MODE. This command is valid only for newer Dectalks, e.g. the Dectalk Express. Possible values are 'math, name, europe, spell', all of which can be turned on or off. Argument STATE specifies new state.

C-e d s dtk-toggle-split-caps

Toggle split caps mode. Split caps mode is useful when reading Hungarian notation in program source code. Interactive PREFIX arg means toggle the global default value, and then set the current local value to the result. dtk-toggle-caps

С-е d с

Toggle capitalization. when set, capitalization is indicated by a *cap* before the word, and upper-case words are indicated with a *acc* before the word. Interactive PREFIX arg means toggle the global default value, and then set the current local value to the result.

In addition, Emacspeak can convey the indentation of lines as they are spoken — This is relevant when programming and is the default when working with program source.

C-e d i emacspeak-toggle-audio-indentation

Toggle state of Emacspeak audio indentation. Interactive PREFIX arg means toggle the global default value, and then set the current local value to the result.

6.4.3 Miscellaneous Speech Commands

Speech can be stopped using command dtk-stop — though in normal use, the action of moving the cursor will stop ongoing speech. The speech server can be stopped and restarted

for cases where the user wants to switch to a different server — or in the rare case to nuke a runaway speech server.

C-es dtk-stop

Stop speech now.

C-e d q dtk-toggle-quiet

Toggle state of the speech device between being quiet and talkative. Useful if you want to continue using an Emacs session that has emacspeak loaded but wish to make the speech shut up. Optional argument PREFIX specifies whether speech is turned off in the current buffer or in all buffers.

C-e C-s dtk-emergency-restart

Use this to nuke the currently running dtk server and restart it. Useful if you want to switch to another synthesizer while emacspeak is running. Also useful for emergency stopping of speech.

Finally, here are the remaining commands available via the TTS related keymap C-e d.

C-e d a dtk-add-cleanup-pattern

Add this pattern to the list of repeating patterns that are cleaned up. Optional interactive prefix arg deletes this pattern if previously added. Cleaning up repeated patterns results in emacspeak speaking the pattern followed by a repeat count instead of speaking all the characters making up the pattern. Thus, by adding the repeating pattern '.' (this is already added by default) emacspeak will say "aw fifteen dot" when speaking the string "....." instead of "period period period period".

C-e d d dtk-select-server

Select a speech server interactively. This will be the server that is used when you next call either M-x dtk-initialize or C-e C-s. Argument PROGRAM specifies the speech server program.

C-e d SPACE

dtk-toggle-splitting-on-white-space

Toggle splitting of speech on white space. This affects the internal state of emacspeak that decides if we split text purely by clause boundaries, or also include whitespace. By default, emacspeak sends a clause at a time to the speech device. This produces fluent speech for normal use. However in modes such as 'shell-mode' and some programming language modes, clause markers appear infrequently, and this can result in large amounts of text being sent to the speech device at once, making the system unresponsive when asked to stop talking. Splitting on white space makes emacspeak's stop command responsive. However, when splitting on white space, the speech sounds choppy since the synthesizer is getting a word at a time.

C-e d RETURN

dtk-set-chunk-separator-syntax

Interactively set how text is split in chunks. See the Emacs documentation on syntax tables for details on how characters are classified into various syntactic classes. Argument S specifies the syntax class.

C-e d t emacspeak-dial-dtk

Prompt for and dial a phone NUMBER with the Dectalk.

C-e d cap V

tts-speak-version

Use this to find out which version of the TTS firmware you are running.

C-e d z emacspeak-zap-dtk

Send this command to the TTS engine directly.

6.5 Voice Lock Mode

The status of voice lock mode can be toggled on and off in the current buffer by issuing the command $C-e \ d \ v$ (M-x voice-lock-toggle).

Voice-lock is turned on automatically in all buffers that support it when Emacspeak is started.

Emacspeak can be set to disable voice lock in all of the major modes that support it. To do so, insert the following statement into your Emacs initialization file:

```
(global-voice-lock-mode -1)
```

The characteristics of the different voice personalities used by voice lock mode vary according to the capabilities of the speech synthesizer. The definitions applicable to the Dectalk family of synthesizers are contained in dectalk-voices.el, which is supplied as part of the Emacspeak distribution. The Emacspeak distribution also contains voice definitions for many other synthesizers.

Using voice lock mode, Emacspeak also supports many of the aural style properties defined in level 2 of the World Wide Web Consortium's Cascading Style Sheet specification (see http://www.w3.org/TR/REC-CSS2/. Thus, when Emacspeak is running in conjunction with a cooperating user agent, such as William Perry's Emacspeak/W3 web browser, the rendering of HTML documents can be regulated by style sheets. Examples of style rules which employ the CSS audio properties can be found in the default style sheet which is supplied in the Emacs/W3 distribution.

6.6 Status Commands

The following commands provide miscellaneous information.

C-e a emacspeak-speak-message-again

Speak the last message from Emacs once again.

C-e m emacspeak-speak-mode-line

Speak the mode-line.

C-e cap M emacspeak-speak-minor-mode-line

Speak the minor mode-information.

C-e SPC emacspeak-speak-header-line

Speak the header-line.

C-e C-w emacspeak-speak-window-information

Speaks information about current windows.

C-e t emacspeak-speak-time

Speak the time.

C-e cap V emacspeak-speak-version

Announce version information for running Emacspeak.

C-e f emacspeak-speak-buffer-filename

Speak name of file being visited in current buffer. Speak default directory if invoked in a dired buffer, or when the buffer is not visiting any file.

C-e h emacspeak-speak-help

Speak help buffer if one present. With prefix arg, speaks the rest of the buffer from point. Negative prefix arg speaks from start of buffer to point.

C-e k emacspeak-speak-current-kill

Speak the current kill entry. This is the text that will be yanked in by the next C-y. Prefix numeric arg, COUNT, specifies that the text that will be yanked as a result of a C-y followed by count-1 M-y be spoken. The kill number that is spoken says what numeric prefix arg to give to command yank.

C-e v emacspeak-view-register

Display the contents of a register, and then speak it.

C-e C-@ emacspeak-speak-current-mark

Speak the line containing the mark. With no argument, speaks the line containing the mark — this is where 'exchange-point-and-mark' C-x C-x would jump. Numeric prefix arg 'COUNT' speaks line containing mark 'n' where 'n' is one less than the number of times one has to jump using 'set-mark-command' to get to this marked position. The location of the mark is indicated by an aural highlight achieved by a change in voice personality.

C-e C-1 emacspeak-speak-line-number

Speak the line number of the current line.

C-e = emacspeak-speak-current-column

Speak the current column.

C-e % emacspeak-speak-current-percentage

Announce the percentage into the current buffer.

7 The Emacspeak Audio Desktop.

This chapter describes the Emacspeak audio desktop and gives tips and tricks for making use of many of Emacs' powerful features.

The desktop is the work area where you organize the tools of your trade and the information objects relevant to your current activities. In the conventional world of visual GUI (Graphical User Interface)-based computing, these tools and information objects manifest themselves as a collection of icons organized in a two-dimensional work-area — this organization is designed to place frequently used objects within easy reach.

Notice that organizing one's work area in terms of visual icons arranged in a twodimensional area where such an organization is optimized for the available "conversational gestures" of pointing and clicking is an artifact of visual interaction.

In the spirit of a truly speech-enabled application, Emacspeak does not simply provide you spoken access to a particular presentation of your work environment that was initially designed with the "sign language" of visual interaction in mind. Instead, Emacspeak enables you to work with documents and other information objects in a manner that is optimized to aural, eyes-free interaction. A necessary consequence of this setup is that users accustomed to the purely visual manifestation of today's electronic desktop do not immediately perceive the Emacspeak environment as an electronic desktop. This section of the manual hopes to introduce you to a work-style that encourages a different perspective on how one interacts with the computer in performing day-to-day computing tasks.

The end result in my case has been a marked increase in personal productivity.

7.1 Objects Making Up The Emacspeak Desktop

A "buffer" is the basic building block of the Emacspeak desktop. Any information presented by Emacs is placed in a "buffer". For example, when perusing this manual within Emacs, the "file" containing the documentation is presented in a "buffer". All information objects such as WWW pages, email messages, output from user interaction with command-line shells etc., are presented by Emacs in individual "buffers".

Buffers provide a base level of user interaction; Emacs derives its power by allowing applications to specialize buffers to enable specific types of user-interaction that is optimized for a specific class of information.

7.2 An Object-Oriented Desktop

The basic "buffer object" can be specialized by Emacs applications to provide optimal interaction. This kind of specialization makes the Emacs environment an object-oriented environment; thus, the basic conversational gesture of "move to the next statement" can be assigned behavior that is appropriate to the content that the user is currently navigating. As an example of such specialization, Emacs provides "specialized modes" for working with English text, programming languages, markup source e.g. HTML (Hypertext Markup Language) or LATEX documents and so on.

7.3 Emacspeak Specializes Aural Interaction

The content-specific user interaction described above is a very powerful feature of Emacs, and this is where Emacspeak derives its power. Traditionally, the ability to create buffers specialized for working with specific content-types has been used by the Emacs community to develop versatile programming environments, messaging applications such as mail and news readers, and authoring environments. The clean design present in all of these Emacs extensions in terms of separating application functionality from the user-interface, combined with the availability of the entire source code making up these packages under the open-source model has laid the ground-work for developing Emacspeak as a versatile aural counterpart to the product of years of software engineering that has been invested by the Emacs community. In short, Emacspeak would not exist in its present shape or form without this prior effort.

7.3.1 Audio Formatted Output

Emacspeak takes advantage of the content-specific knowledge available within specialized buffers to produce "audio formatted" output designed to optimize user interaction. A basic consequence of the above is "voice locking" in specialized modes; a more interesting consequence is the implementation of Aural Cascading Style Sheets (ACSS) in conjunction with the Emacs EWW (Emacs Web Wowser) and W3 Web browsers.

7.3.2 Structured Navigation:

Emacspeak also exploits content-specific knowledge to provide structured navigation of different types of electronic content. In many cases, such structured navigation is an extension of what Emacs provides by default; in other cases, Emacspeak implements the necessary extensions to provide the level of structural navigation needed to work efficiently in an eyes-free environment.

Notable among such structured navigation is Emacs' powerful outline feature.

An example of content-sensitive navigation is provided by the imenu package which dynamically creates a "table of contents" based on the content that is being displayed in a given buffer. Emacs Selective Display lets one easily hide and expose portions of a buffer based on indentation — this feature can be used to advantage when working with program source code.

7.3.3 Navigating The Desktop

In addition to navigating individual information objects, the Emacspeak environment provides speech-enabled navigation of the various buffers that are currently open on the Emacspeak desktop via Emacs' built-in list-buffers feature. Emacs' dired — directory editor — for browsing the file system, along with the new speedbar package that combines features from dired and imenu round off the suite of navigational tools.

7.3.4 Everything Is Searchable:

Emacs derives one final advantage from using buffers as the basic building block for the entire desktop. Every Emacs buffer is searchable via a uniform and powerful search interface. Emacs' incremental search works efficiently and consistently to enable you locate "objects" of interest either within a given document or to locate a given object from among the various

objects that are currently open on the Emacspeak desktop. This is **very powerful** — where a GUI (Graphical User Interface) user is typically limited to quickly locating an object from a relatively small collection — the size of the collection being a direct function of available display real-estate — the Emacspeak user can typically work with a far larger collection of objects. This is well-suited to the eyes-free environment, where display real-estate has no meaning; so bringing up a list of currently open buffers and performing an incremental search to locate a specific buffer is just as efficient independent of whether you have a few dozen or a few hundred buffers open.

To illustrate the above, my typical working Emacs session lasts between two and three weeks — over that time I typically accumulate several hundred open buffers holding a large variety of content ranging from program source code to email messages and WWW pages.

Ubiquitous search in the eyes-free environment is critical — as a comparison, when using a conventional, purely visual WWW browser, users have no means of easily "searching" for say the "submit" button on a WWW page. This inability is a minor annoyance in visual interaction, and the typical mouse-enabled user **never** uses the find dialog to find a submit button — it is simply more efficient to point at the submit button given the eye's ability to quickly scan the two-dimensional display. This luxury is absent in an eyes-free environment; as a consequence, blind users confronted by the combination of a visual interface and screen-reader are typically limited to either tabbing through all the controls on a WWW page, or using the sub-optimal find dialog.

8 Voice Lock

See http://tvraman.github.io/emacspeak/blog/voice-lock-refreshed.html for a high-level overview of how Emacspeak Voice-Lock has evolved over the years.

- 1. Emacspeak defines a number of voice overlays such as voice-bolden, and voice-lighten that can be applied to a given voice to change what it sounds like.
- 2. Voice overlays are defined in terms of Aural CSS (ACSS (http://www.w3.org/tr/css2/aural.html)) to keep them independent of a specific TTS engine.
- 3. For each such overlay there is a corresponding <overlay-name>-settings variable that can be customized via custom.
- 4. The numbers in voice-bolden-settings as an example:

Setting	Value
family	nil
average-pitch	1
pitch-range	6
stress	6
richness	nil
punctuation	nil

Unset values (nil) show up as "unspecified" in the customize interface.

- 1. Do not directly customize voice-bolden and friends, instead customize the corresponding voice-bolden-settings, since that ensures that all voices that are defined in terms of voice-bolden get correctly updated.
- 2. Discovering what to customize:

Command emacspeak-show-personality-at-point (bound by default to C-e M-v) will show you the value of properties personality and face at point. Describe-variable on these names should tell you what to customize; so as an example:

Put point on a comment line, and hit C-e M-v: you will hear

```
Personality emacspeak-voice-lock-comment-personality Face font-lock-comment-delimiter-face
```

Describe-variable of emacspeak-voice-lock-comment-personality gives:

```
emacspeak-voice-lock-comment-personality's value is acss-p0-s0-all
```

Documentation: Personality used for font-lock-comment-face This personality uses voice-monotone whose effect can be changed globally by customizing voice-monotone-settings.

8.1 How It All Works

Here is a brief explanation of the connection between voice-bolden and its associated voice-bolden-settings.

- 1. Voice settings are initially in voice-bolden-settings which is a list of numbers.
- 2. That list of numbers needs to be translated to appropriate device-specific codes to send to the TTS engine.

- 3. You do not want to do this translation each time you speak something.
- 4. So when voice-bolden is defined, the definition happens in two steps:
 - The list of settings is stored away in voice-bolden-settings,
 - A corresponding voice-name is generated 'acss-a<n>-p<n>-r<n>-s<n>' and the corresponding control codes to send to the device are stored away in a hash-table keyed by the above symbol.
 - Finally, voice-bolden is assigned the above symbol.

8.2 What this gives

- 1. The ability to customize the voice via custom by editing the list of numbers in voice-bolden-settings
- 2. When that list is edited, voice-bolden is arranged to be updated automatically.

The following additional commands from module See Section 12.209 [emacspeak-wizards], page 230, are useful when designing aural styles.

- 1. emacspeak-wizards-generate-voice-sampler
 Generate a buffer containing text that demonstrates the effect of various aural settings.
- 2. emacspeak-wizards-voice-sampler
 Applied specified aural style to text in current region.

9 Using Online Help With Emacspeak.

Emacs provides an extensive online help system for helping you learn about various aspects of using Emacs. Emacspeak provides online help for its various extensions using this same help system. This chapter explains how to use the online help facilities in order to empower you in discovering powerful and versatile working techniques that will make you more and more productive in your day to day computing.

The online help options are accessed via the C-h prefix key, which must be followed by an additional letter or control character to designate the kind of help desired. For example, C-h t help-with-tutorial visits the Emacs tutorial in a new buffer; C-h i info enters the Info documentation system, from which you can read Texinfo manuals that have been installed on your system, including the Emacs and Emacspeak documentation; and C-h k describe-key provides a description of the Emacs function which is bound to the next key that you type. For learning about the various options that are available via the C-h mechanism described above, view the online help for command help-for-help bound to C-h C-h — using what has been described so far, you would achieve this by pressing C-h k followed by C-h C-h.

Emacspeak users should note that online help is typically displayed in a separate Emacs window. Where it makes sense to do so, Emacspeak will automatically speak the displayed help. Once you've asked for help, you can hear the displayed documentation as many times as you wish using Emacspeak command emacspeak-speak-help bound to $C-e\ h$. If you want to move through the displayed help a line at a time, switch to the buffer where the help is displayed — the buffer is called *Help*.

Often, in adding an auditory interface to an Emacs extension, such as a web browser or mail reader, Emacspeak defines additional commands and key bindings which enhance the functionality of the spoken feedback provided by the application. This manual does not purport to document all such commands. It is important, therefore, when learning to use the various Emacs extensions which comprise the 'audio desktop' (see Chapter 7 [Audio Desktop], page 18) that you take advantage of online help to obtain details of any context-specific features provided by Emacspeak. The following two commands are of particular importance in this regard:

- C-h m describe-mode explains which major and minor modes are currently in effect, and lists the commands and key bindings associated with them.
- C-h b describe-bindings lists all of the key bindings which are currently defined.

The importance of these help functions can be illustrated by the Emacs/W3 web browser. When point is positioned inside a table, certain key bindings are established with which you can access Emacspeak commands that make it possible to read the rows and columns of the table and explore its structure efficiently. To get a description of these key bindings, you can use W3 to visit the sample HTML file supplied as part of the Emacspeak distribution, and, after having moved point onto the first row of the table, issue the command C-h m describe—mode to create a help buffer containing an explanation of the features offered by W3 mode.

Emacspeak supplements the online help facilities available within Emacs by defining several commands of its own, as follows:

• C-h c-e describe-emacspeak presents a list of standard Emacspeak commands.

- C-e F emacspeak-view-emacspeak-faq opens a new buffer containing the Emacspeak FAQ, a list of frequently asked questions about Emacspeak together with their answers.
- C-e < F1> emacspeak-learn-mode enters a mode in which the function of every key that you type is spoken; this mode can be terminated with the C-g keyboard-quit command.

10 Emacs Packages.

Emacs — The extensible, self-documenting editor, derives its functionality from its powerful extension mechanism. This extension mechanism is used to implement many user-level applications such as mail readers, web browsers, software development environments and so on. This chapter gives directions on how to locate the right Emacs package for addressing specific tasks. The chapter is organized into logical sections that each pertain to a specific class of tasks; in individual subsections within a section give a brief overview of particular Emacs packages that have been speech-enabled.

For a categorized list of speech-enabled applications on the Emacspeak desktop, see http://emacspeak.sf.net/applications.html. In Emacs 24 and later, you can use Emacs' builtin package manager to install and update packages.

10.1 Document Authoring

The Emacspeak environment provides a rich collection of structured document authoring tools. These are well-suited for working in an eyes-free environment — you clearly do not want to use a **What You See Is What You Get** (WYSIWYG) authoring tool if you cannot see what you're getting. Structure-based authoring tools allow you to focus on the act of content creation, leaving the minutiae of visual layout to the computer.

10.1.1 Creating Well-formatted Documents

Before authoring a document, decide its primary audience. If the document contains relatively simple content, e.g., no mathematical equations etc. and is primarily targeted at the web, you are probably better off using HTML. You can create well-structured HTML documents with the help of package nxml-mode for editing XML documents. Another option is to use org-mode to create a Wiki-like text document that can be easily published to multiple output formats including HTML.

Packages org-mode and nxml-mode are speech-enabled by Emacspeak to provide auditory icons, structured navigation and outlines, as well as voice locking for audio formatted feedback as you work.

If the document being authored is more complex, you are usually better off creating it in IATEX. Note that IATEX documents can be converted to HTML either via package tex4ht—available on the WWW.

The T_EX family of typesetting languages is suitable for producing well-formatted documents in an eyes-free environment. Unlike WYSIWYG environments, the author of a T_EX or L^AT_EX document works with the content of the document, leaving it to the formatting system (T_EX) to format the document for good visual presentation.

The AUCTeX package is an Emacs extension that facilitates authoring and maintaining structured documents in T_EX and L^AT_EX. Package bibtex facilitates maintenance and use of bibtex bibliography databases. The Texinfo package allows creation of software documentation that is suitable for both printing as well as online viewing as hypertext. Emacspeak speech-enables packages AUCTeX, bibtex and texinfo to provide convenient spoken feedback as you create documents. For details on using these packages, see their accompanying online info documentation.

As the document preparation system of choice, Emacspeak supports a fluent speech-enabled interface to editing and formatting \LaTeX documents. This interface is provided by speech-enabling AUCTeX mode.

Mode AUCTeX provides efficient keyboard shortcuts for inserting and maintaining IATEX markup as a document is being authored. All of these editing commands provide succinct auditory feedback when used with Emacspeak. The syntax coloring provided by this mode is extended to provide voice locking — consequently, Emacspeak uses different voices to speak the embedded markup to set it apart from the content.

Mode AUCTeX can be used to create empty document templates and to insert document content at the appropriate places in the template. The mode also enables structured navigation of the document as it is being edited. Emacspeak speech-enables these template creation and structured navigation commands to produce auditory icons and succinct spoken feedback. For example, while editing, the user can quickly browse through the sections of the document and have each section title spoken. Document elements such as paragraphs and bulleted lists can be manipulated as logical units. These features are especially relevant in an eyes-free environment where the user needs to select logical parts of the document without having to point at portions of a visual display.

10.1.2 Searching, Replacing, And Spell Checking

Incremental search, a process by which the system prompts the user for a search string and moves the selection to the next available match while allowing the user to add more characters to the search string, is the search technique of choice among most Emacs users. As the system successively finds each match, it provides the user the option of continuing the search. Incremental search is a more complex instance of traditional search interaction because in addition to either stopping or continuing the search, the user can modify the current search in a number of ways including specifying a longer (or shorter) search string.

All of the user commands available during incremental search are documented in the online Emacs info manual. These are speech-enabled by Emacspeak to provide spoken prompts as the dialog begins; auditory icons indicate a search hit or search miss as the search progresses. Along with auditory icons search-hit and search-miss the user also hears the current line spoken, and in the case of a search hit, the matching text is aurally highlighted by using the standard audio formatting technique of changing voice characteristic. This feedback proves extremely effective when the search pattern appears several times on a single line; the user is unambiguously cued to the current match.

Search and replace actions are an extension to the basic conversational gestures of a search dialog. In addition to specifying a search string, the user also specifies a replacement string. On the Emacspeak desktop, this functionality is provided by command query-replace. The speech-enabled version of this interaction prompts the user for the search and replacement texts. The auditory feedback during the interactive search and replacement process parallels that described in the case of incremental search. Audio formatting to indicate the occurrence that is about to be replaced proves an effective means of avoiding erroneous modifications to the text being edited. As an example, consider using command query-replace to locate and replace the second occurrence of **foo** with **bar** in the text

'Do not change this fool, but change this food.'

When the search matches the first occurrence of **foo** in word *fool*, the aural highlighting helps the user in answering "no" in response to question "should this occurrence be

replaced". In addition to allowing the user to supply a simple "yes or no" answer for each match, command *query-replace* also allows the user to specify a number of other valid answers as described in the online Emacs documentation.

Spell Checking

A more complex instance of conversational gesture "search and replace" is exhibited by standard spell checking dialogues. Spell checking differs from the search and replace dialog described above in that the search and replacement text is guessed by the system based on an available dictionary. Words that are not found in the dictionary are flagged as potential spelling errors, and the system offers an interactive search and replace dialog for each of these possible errors. During this dialog, the system successively selects each occurrence of the possibly erroneous word and offers a set of possible replacements. Unlike in the case of simple search and replace, more than one possible replacement string is offered, since a potential spelling error can be corrected by more than one word appearing in the dictionary.

In the visual interface, such spell checking dialogues are realized by displaying the available choices in a pop-up window and allowing the user to pick a correction Once a correction is selected, the user is offered the choice of interactively replacing the erroneous word with the correction.

The spell checking interface on the Emacspeak desktop is speech-enabled to provide fluent auditory feedback. The visual interface parallels that described above and is provided by package <code>ispell</code> which is part of the standard Emacs distribution. Emacspeak provides a spoken prompt that is composed of the line containing the possibly erroneous word (which is aurally highlighted to set it apart from the rest of the text on that line) and the available corrections. Each correction is prefixed with a number that the user can use to select it. Once a correction is selected, the interaction continues with the query and replace interaction described earlier. The speech interface to the spell checker is as fluent as the visual interface. Notice that Emacspeak users do not need to concern themselves with the details of the visual display such as "the corrections are displayed in a window at the top of the screen".

In addition to the standard spell checker described above, newer versions of Emacs include an "on-the-fly" spell checker that flags erroneous words as they are typed. Emacspeak speech-enables package flyspell so that such erroneous words are aurally highlighted.

10.2 Structured Editing And Templates

Editing documents based on the inherent structure present in the electronic encoding can be very efficient when using spoken interaction. We described mode AUCTeX — a specialized interface to authoring LATEX documents as a special instance of such structured editing in see Section 10.1 [Document Authoring], page 25.

The Emacspeak desktop allows the user to efficiently author and maintain an electronic document based either on the structure present in the markup (as in the case of mode AUCTeX) or on special outlining constructs that allow the user to impose a desired logical structure on the document. This section describes the effect of speech-enabling such editing tools and points out the advantages in using these in a speech oriented interface.

Template-based authoring — a technique that allows the user to create a document by inserting contents into appropriate positions in a predefined template — goes hand in hand with such structured editing. Finally, structured editing can vastly simplify the creation and maintenance of structured data, for example, the data present in a UNIX password file. Such data files are in fact nothing more than a collection of database records, where each record (or line) consists of a set of fields delimited by a special character. Maintaining such files without exploiting the underlying structure often tends to be error prone. We describe editing modes that can exploit such record structure to provide a fluent editing interface. Finally, we outline a speech-enabled interface to a spreadsheet application as a complex instance of such structured data editing.

10.2.1 Outline Editing

All of the various outline editing interfaces on the Emacs desktop allow the user to *hide* or *show* the contents at the different levels of a possibly nested tree structure. Components of this tree structure can be manipulated as a unit, e.g., entire subtrees can be deleted or copied. Outline editing thus provides an efficient means of obtaining quick overviews of a document.

The visual interface displays such hidden content as a series of ellipses following the visible outline heading. Emacspeak produces auditory icon *ellipses* when speaking such outline headings.

The basic outline mode allows the user to specify the syntax and level of outline header lines as a regular expression. This simple technique can be used to advantage in the structured navigation of large electronic texts such as those available on the Internet from online book projects such as project Gutenberg and the Internet Wiretap. For example, when this feature is activated while reading the electronic text of a Shakespearean play, the different acts can be recognized as separate nodes in the logical structure of the document. The user can then hide the document body with a single keystroke, navigate the outline headings to find a particular act, and have that portion rendered either visually or aurally. Hiding an outline level produces auditory icon close-object; exposing a hidden level produces auditory icon open-object. For details on using mode outline, see the relevant section of the online Emacs info manual.

The basic outline facility described above is applicable to all content being edited or browsed on the Emacspeak desktop. In addition, Emacspeak has other specialized outline editing modes such as folding mode that provide extended outlining facilities. In mode folding, the user can create (possibly nested) folds — logical containers of content that are delimited by a special fold mark. The fold mark is typically a text string that is chosen based on the type of content that is being manipulated. Thus, when folding a C^{*} program source file, fold marks are created from C^{*} comments. The user can open or close any or all folds in a document, and these actions are accompanied by auditory icons open-object and close-object. By entering a fold, all editing actions are restricted to the contents of that fold; this proves a simple yet convenient way of constraining editing actions such as search and replace to specific portions of large documents. Folds can be manipulated as a unit and can be deleted, copied or moved.

Mode *folding* proves especially effective in maintaining large software modules. The technique can be used to advantage by creating folds for different sections in a module and by further placing each function appearing in a particular section in a fold of its own.

Complex functions can themselves be folded into sections where each section reflects a different stage in the algorithm implemented by that function. Thus, the technique of folding can be used as an effective aid in *literate* programming. I typically write software modules by first creating an outline structure using folds that reflect the various components of that module. Next, I populate each fold with the function signatures and documentation for the functions in each section. When I am satisfied with the overall architecture of the module, I fill in the function skeletons with actual program code. This technique is used extensively in maintaining the Emacspeak code base.

10.2.2 Template-based Authoring

Emacspeak supports two powerful template-based authoring subsystems that enable the user to quickly create and fill in templates. Dmacro (short for "dynamic macros") allows the user to define and invoke template-based macros that are specialized for creating different types of content. For example, when programming in C, the user can invoke dynamic macros that insert skeletons of standard C constructs with a few keystrokes. This form of editing has numerous advantages in creating consistently structured code when developing large software modules. Emacspeak speech-enables mode dmacro to provide succinct spoken feedback as templates are created and filled. The user invokes dmacro via command insert dmacro, which is typically bound to a single key. This results in a dialog where the user is prompted to pick one of the dynamic macros available in the current context. If the users choice can be uniquely completed, that completion is spoken; otherwise, the list of possible completions based on the available partial input is spoken, accompanied by auditory icon help.

An alternative template-editing facility is provided by mode *tempo* This mode is designed to be used in creating template-based editing tools for specific markup languages; a good example is mode *html-helper*, a mode for creating and updating HTML documents for publishing on the WWW (see see Section 10.1 [Document Authoring], page 25).

10.2.3 Maintaining Structured Data

Consider the following entry from file /etc/passwd on my laptop.

'aster:KoUxwQ2:501:100:Aster Labrador:/home/aster:/bin/bash'

File /etc/passwd is a simple instance of a text file that stores structured data records as a series of fields delimited by a special character. Each item in the file acquires meaning from the position in which it occurs for example, the fifth field contains the user name, Aster Labrador. More generally, structured data where each field in a record has meaning is found throughout the desktop in applications ranging from entries in a rolodex to rows in a spreadsheet.

Typically, users do not directly edit the stored representation of the data. Instead, application front-ends provide a more human-centric (and hopefully less error prone) user interface for modifying and maintaining the data. Thus, spreadsheet applications present the data as a two dimensional table that is automatically updated to reflect changes in the underlying data. The two dimensional table is perhaps the most commonly found visual front-end to structured data tables with row and column headers prove a succinct way of

implicitly displaying the *meaning* along with the *value* of the fields making up each data record.

10.3 Browsing Structure

This section describes packages that allow you to browse structured information — these are distinct from the tools described in Section 10.2 [Structured Editing], page 27, in that they are typically used for working with content that is read-only e.g., online documentation.

10.4 Web Browsing

Note that there is newer material at http://emacspeak.blogspot.com/2014/05/emacspeak-eww-updates-for-complete.html and in See Section 12.74 [emacspeak-eww], page 100. For Emacs 24.4 and later, note that the built-in Web browser EWW is also the browser of choice for emacspeak.

— T. V. Raman, October 2014.

This document, "The State of Web Browsing in Emacspeak" describes the primary web browsers in use under emacspeak and ways they might be used more efficiently.

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10.4.1 Intro

Web browsing in emacspeak can be made as simple or as complicated as you wish to make it. On the one hand, all that need be done is to open a web browser and fetch a particular url. This works fine in many cases with exceptions being things like html tables. On the other hand, if you spend a little time learning a particular browser and its functionality, web browsing can be made more efficient and the web more navigable.

This document is intended to be an introduction to the 2 primary browsers that run under emacs: emacs/w3 and EWW. I also intend to introduce a couple of add-on packages intended to make life easier and to address specific shortcomings.

The primary reason for this documentation is the fact that a lot of the documentation of the various functions tells exactly what it does, but not why or in what circumstance one might use it. Hopefully I can remedy that here.

Who this document is intended for

While this document is geared toward emacspeak users, it might be helpful for other users as well. I have tried to note where functions are specific to emacspeak.

Assumptions

This document assumes emacs is installed. If reading the section on a particular browser and trying out the associated functions, it, of course, assumes that the browser is installed and working. For features specific to emacspeak, a working install of emacspeak is necessary. It is far beyond the scope of this document to help with the installation of these programs.

For help with installing any of the above bits of software, the following mailing lists and / or newsgroups are available:

- emacs gnu.emacs.help
- emacs/w3 the mailing list for w3 is pretty dead. Sorry. The documentation is, however, not terrible.
- emacspeak see http://emacspeak.sf.net

It is highly suggested that the mailing list archives, google, and the relevant documentation be consulted before posting messages to any mailing list. Nothing is more irritating than answering the same questions over and over. Those of you with kids know what I am talking about.

It is also assumed that the reader is comfortable with using emacs itself. Understanding the convention for communicating keystrokes to run commands, navigating documents, and the like are not covered.

10.4.2 emacs-w3

emacs/w3 is a web browser written completely in emacs lisp. It has some really nice features applicable to the emacspeak community such as the ability to navigate tables and support for the w3c's aural cascading stylesheets.

emacs/w3 advantages

As mentioned above, the ability to navigate tables is a super help. emacs/w3 also has support for cascading stylesheets. This allows incredible control of voices used for what would normally be visual attributes of the text such as bold, italics, preformatted text and the like.

Another advantage of emacs/w3 is that it is written completely in emacs lisp. With some effort, emacs/w3 is very customizable and quite extendable.

emacs/w3 disadvantages

Rendering can be slow. Sometimes it can be painfully, excruciatingly slow. That might be a slight exaggeration, but slow it is. This is because it is written in lisp... something I mentioned just above as a strength. It is a trade-off, but one that some see as worth it. There are, however, some things that can be done to speed up the browsing process. See [emacspeak-w3-xsl-transform], page 34, for more information.

Another disadvantage is that emacs/w3 chokes on some pages. Sometimes it gives error messages and doesn't display anything. Sometimes it does this to some people and doesn't do it to others as we saw on the emacspeak mailing list a short time ago. Sometimes it gives error messages and renders the page anyway.

One other major annoyance of emacs/w3 is that sometimes it simply stops doing anything while rendering a page. There is a way I have found to get around this. I hit C-g. I usually wait five to ten seconds and then simply quit, using C-g. Not always, but usually, the page has already completed downloading and is being rendered and it therefore is not a problem.

emacs/w3 also has no bookmark functionality. This can be remedied in several ways. One simple way, mentioned below, is to use the emacs package bmk-mgr. Another way is

to use org mode with remember which is the method used by Dr. Raman, the author of emacspeak. See See [bmk-mgr], page 36, later in this manual, for more information.

History back and next in the browser also seem to be broken but this is not generally a problem for me as I never look back.

emacs/w3 native functions

Many functions for efficient navigation of the internet are native to emacs/w3. Some of the most useful functions are listed below

Unlike emacs-w3m, the information presented by describe-mode is very complete, but a little terse. All the function names are listed and asking for help on particular functions works well. That being said, use this list to augment, not replace, the built-in help that is available in emacs.

C-f will open a new buffer containing the cell point is in. In most instances, this works very well. Imagine you are looking at a page that is divided into 4 distinct areas: a cell at the top of the page that contains a banner and some navigation, and a "body" area that is divided into three sections consisting of more navigation, an article, and advertisement. If point is in the main article cell, using C-f will open another buffer that contains only the text of that cell, the article you are interested in.

One caveat is that this does not always work as advertised. Sometimes the leftmost character of each line is missing. At least it makes for interesting reading. Usually when I have this problem I simply exit that buffer and linearize the tables in the original page.

The m key executes a very useful command. It will complete a link on the page. Imagine that you are reading through a document and you hear a link that you need to visit. You could tab through all the links until you hear the one you want or you could hit the m key and enter the link text at the prompt. Completion is available and it is not case-sensitive. Efficient, no?

The period in a cell will speak the contents of that particular cell. This command is, in my opinion, most useful when navigating tables with cells that have only one paragraph or less. I tend to not read whole articles in this manner because, inevitably, someone will interrupt me and I will lose my place.

The equals key, while in a table cell will give you the cell information. It tells you the row and column position, the size of the table, and at what nesting level the table is.

The pipe key, is used to read the table column. As this command seems to read the rectangle the column is in, this command is most useful when used in a table where there is no column spanning, i.e. all rows and columns are uniform.

Here is a list of table navigation commands:

- C-e +moves to the beginning of the next table row.
- C-e moves to the beginning of the previous table row.
- *C*-e < moves to the beginning of the table.
- C-e > moves to the end of the table.
- C-e = moves to the top of the table column.
- C-e < DOWN > moves to the next cell down in the same column.
- C-e < UP > moves to the previous cell in the same column.

- *C-e <LEFT>* moves to the previous cell in the same row.
- C-e <RIGHT> moves to the next cell in the same row.

As you can see, table navigation in w3 can be easy and fun.

emacspeak specific functions for emacs/w3

An incredible amount of work has been done by the emacspeak community to make emacs/w3 accessible to those with visual impairments. Here is an explanation of some of those functions.

The command C-t will toggle the visibility of table borders. This command might be useful where you want to hear all punctuation symbols on a page but the table characters get in the way.

The quote key will execute a command that allows you to skim the contents of the buffer. it will read the page, paragraph-by-paragraph, pausing between paragraphs to prompt you to move on by pressing SPACE. If you hit SPACE in the middle of a paragraph, it skips to the next paragraph.

Another skimming command is bound to the z key. This will allow you to zip through web pages by logical blocks such as div, paragraph, and table tags.

Using the imenu facilities is another way of skimming the document and getting to the information you desire. imenu works especially well for well-structured documents. The first thing that need be done is to copy the w3-imenu.el file from the contrib directory of the w3 directory to somewhere in your load path. I am using the cvs version of w3 and my w3 directory is under /home/rdc/sourceforge. The easiest thing to do is probably to do an M-x locate and search for w3-imenu.el to see where it is. After locating the file, move it into your load path. In my case I have it under /home/rdc/share/emacs/site-lisp/.

There are two ways to use the imenu facilities: automatically and manually. Since I do not use imenu on every site, I prefer to invoke it manually to save the time required to build the index.

Once things are in place, invoke imenu with the j key. This will ask you for an index position. Hitting TAB will give you a list of the possible index positions. Another way of navigating the document would now be to use the keys M-n and M-p to go to the next and previous index positions. Note that you have to build an index for a page before you can use these commands.

Cap A and cap R serve the same function. Cap A browses the Atom feed at point and cap R browses the rss feed at point. This is useful to sample the feed, so to speak, before going through the trouble of configuring your feed reader to fetch the feed. It might also be useful to grab the headlines from a page and present them in a more concise, readable format. If using the sort-tables xsl transform, there will be a link at the top of the page if there is an rss feed available. See See [emacspeak atom and emacspeak rss], page 36, for more information.

Google provides many useful tools for web surfers. The following commands are useful to access much google goodness.

Cap C extracts the current page from the google cache. With a prefix argument it will extract the link under point. This is useful for those times when a particular site is down...

maybe it is in the cache... maybe it is not. It can also be used for when particular pages are removed from a site like in the case of a government conspiracy. Are we at war with Eurasia or East Asia?

The slash key will search google for pages similar to the current page.

The command g will do a google search restricted to the site of the document.

The 1 command googles for who links to this page.

The command t runs the url under point through the google transcoder. This is useful for sites that are heavy on the use of tables and the xsl transforms are not helpful. It also works on some sites that use javascript to go to the next page in the story, such as Reuters. Using a prefix argument with this command will untranscode the url under point for pages that are currently transcoded.

Cap T will jump to the first occurrence of the title in the document. Multiple consecutive executions of this command will jump to further occurrences. This command is probably one of the most useful timesavers while web browsing.

M-s jumps to the "submit" button for the form you are editing.

M-r plays the media stream at point with the default media player.

The y command will rewrite the url of the url under point. This is useful for those sites you frequent. Often, sites that have printer friendly content have a specific way in which the url is written. For The first time you run this command in a particular buffer you are prompted for a pattern to use. The pattern is in the form of

'("from string" "to string")'

The opening paren is supplied. Remember to quote the strings or you will get an error. From this point on, until you kill the buffer in which you wrote the rule, hitting y on a link will use this rewrite rule to visit the page. If you mistyped the rule, providing a numeric argument will allow you to rewrite the rewrite rule. I love alliteration.

Saving the best for last, **e** is the xsl map prefix. As I mentioned in the section on emacsw3m, xsl transforms are some powerful magic that takes a web page and transforms it in some way. Linearizing tables is a good example, and the one I use most often.

The keystroke **e** a prompts for an xsl transform to apply to the current page. If you know the name of the particular transform you want you can use tab completion to select it. Otherwise, you can hit TAB to get a buffer that contains the list of choices.

If you know that you want a particular transform done automatically you can use the command e s to select a transform and then e o to turn xslt on (the same command will turn xslt off). Then, every page opened from that point on will have the transform applied.

There is the variable emacspeak-w3-xsl-transform that can be set via the usual methods. This variable specifies a transform to use before displaying a web page. There is an advantage to turning on xsl transforms all the time. If you use the identity.xsl, the linearize-tables.xsl or the sort-tables.xsl it can actually speed up rendering of the page. This is because the transforms provide clean and balanced html to the renderer. Additionally, using sort-tables.xsl or linearize-tables.xsl will provide a little more boost as rendering nested tables is particularly difficult for a web browser.

Sometimes it is just easier to read the printer friendly version of a story instead of having to linearize the tables and search for the content. Also, some sites, like the New York Times,

I believe, make you navigate several pages to read the whole story, but if you select a "Print this story" link you can read the entire story on one page formatted without a lot of the cruft on the normal page. This is where the e Cap P command comes in. It will extract all the print streams from the current document.

Closely associated commands are $e\ r$ and $e\ Cap\ R$ which extract the media streams from the current page and from the link under point, respectively.

The command $e\ y$ is another command that is useful for frequented sites. It does the same as the y command above in that it rewrites the url at point and follows it. In addition, it filters the output by a particular CSS class.

The command e e does more magic to the url at point. It processes the url using a specific function. For example, it can be used in retrieving radio content from the BBC. If you execute C-e u and type in BBC Channel On Demand or use tab completion to get the same, and then type in radio4 you will be presented with a page containing a plethora of links to other pages containing information about particular shows. On these pages there is, somewhere, a link that will play the program. If you hit enter on one of the links on the first page, you will be taken to one of these description pages. By using the e e command on a link you cut out this middle step and proceed directly to playing the program you are interested in.

If there is no executor defined for a current buffer, hitting TAB after e e will give you a list of possibilities to choose from. One nice feature of this function is that it can be used for any function. If you cannot remember the keystroke that will play the url under point in emacspeak-m-player, but you know what it is called, you can hit e e and then enter the name of the function. Nice.

The ef command will run the current page through an XPath filter and return the results. For more information on XPath, see http://en.wikipedia.org/wiki/XPath. If you wanted to see only the links on a page, when prompted enter //a and you will be returned every link on the page. If you wanted to see only the contents of "p" tags, you would enter //p. This can be useful for many things, form elements included. Giving this command a prefix argument will reverse the filter, giving you everything but the content of the specified tag.

A related command can be invoked with the e p keystroke. This command does the same as the filter above but works on the url under point.

emacs/w3 tips and tricks

As I mentioned above, using C-g when it seems the browser is not responding will often display the page with no ill effects. Your mileage may vary. Taxes, tags and title are extra.

Also mentioned above is the use of sort-tables or identity as an xsl transform to speed up the rendering of pages. Every little bit helps.

Another useful tip is the use of the k key. This key will place the current url in the kill-ring for later yanking. If a page will not render correctly, using k will get the url and allow me to pass it to emacs-w3m. The counterpart to this command, $cap\ K$ puts the url under point in the kill-ring.

10.4.3 Add-ons

Some of these are emacspeak specific, some are not. You can usually tell by the name.

emacspeak url template

I love this package. Since changing my primary browser to emacs/w3 I have really been giving the url-template package a workout. The url-template package contains templates that prompt you for information to supply to various sites to retrieve information without all the fuss of having to go to the site and navigate it. One really nice thing about url-templates is the fact that they need not be web pages. Media streams can also be made into url-templates.

The way to get to the templates is with the command C-e u. A TAB at the prompt will give you a list of the available templates. You should go now and have a look at the info manual section on See Section 12.233 [URL Templates], page 279, and read it. I'll wait here.

By the way, the ones I find most useful are the "Google Hits", "emacswiki search" "NPR On Demand" and "Weather forecast from Weather Underground".

emacspeak atom and emacspeak rss

These are fairly simple rss and atom browsers for the emacspeak desktop. Using the Customize interface you add feeds in the form of titles and urls. Then you call the readers with C-e C-u for rss feeds and use M-x emacspeak-atom-browse for atom feeds. There is also emacspeak support for newsticker, an rss / atom reader that is a part of emacs 22, but I have never used it.

I personally use See Info file gnus, node 'Top', for rss feeds but setting gnus up for only that purpose is like hunting rabbits with a bazooka.

emacspeak websearch

emacspeak-websearch provides more search options than you can shake a stick at; emacspeak-websearch provides search for dictionaries, news sites, software sites, google tools, weather, currency converter and much more. It can be accessed with the keystroke C-e?. At the prompt, you can enter another question mark to get a list of the available search options. You will then be prompted for the necessary information. One of the nice things about this package is that it attempts to jump to and read the most relevant information on the result page. Module emacspeak-websearch is complemented by module emacspeak-url-template; that module provides URL templates that prompt for and retrieve the relevant information from complex Web pages.

See Section 12.204 [emacspeak-websearch], page 225, and See Section 12.196 [emacspeak-url-template], page 214, for more information.

bmk-mgr

This is a newcomer to the emacspeak world. In the interest of full disclosure, I am the one that wrote the emacspeak module that makes this package accessible. It is a bookmarks manager that works with both emacs/w3 and emacs-w3m. As of the writing of this document there are still some issues, especially when using it on emacs version 22, but those are being worked on. I think this is a good solution to the problem of emacs/w3 not having bookmarks functionality and providing one central bookmark location for those who reg-

ularly use both browsers. See http://www.emacswiki.org/cgi-bin/wiki/EmacsBmkMgr, for more information.

10.4.4 Conclusion

emacspeak makes the internet not only accessible to those with visual impairments, but it makes browsing and information retrieval quick and efficient. If a user will spend a little time up front to learn the tools available to access the web, the increase in efficiency and ability will more than make up for the time spent. The nice thing about these tools is that you can integrate them in your day-to-day as you have the time. While it is not necessary to use everything mentioned in the above document, if you add some of these tools to your repertoire you will not be sorry.

In the end, no one makes you use a hammer to drive nails but it sure beats using a banana.

10.5 Messaging

Working with messaging applications involves both authoring and browsing content. Emacspeak provides a rich set of speech-enabled messaging tools. Further, all of the tools described in the previous sections integrate smoothly with the messaging applications described here; this means that you do not need to re-learn a new set of work habits when dealing with content in your messaging application.

10.6 Editing Code

Files containing program source code form a very specific class of **structured** documents. Unlike documents meant for human consumption that are often only loosely structured, program source (as a concession to the computer's intolerance of lack of structure) are per force well-structured and adhere to a fairly stringent syntax.

The Emacs environment provides editing modes that are specific to creating and maintaining software written in most popular programming languages. Many of these editing modes are speech-enabled by Emacspeak. Speech-enabling these modes includes providing a rich set of navigational commands that allow you to move through the source efficiently. In addition, Emacspeak's core **voice-lock** facilities are used to produce audio formatted output — this helps you spot errors quickly.

10.7 Development Environment

In addition to providing specialized editing modes for creating and maintaining program source, Emacs provides a rich set of software development tools that can be combined to create powerful Integrated Development Environments (IDE). These IDEs are speechenabled by Emacspeak to provide a versatile and powerful environment for eyes-free software development.

10.8 Desktop Management

Emacs provides an integrated environment for performing all of ones day-to-day computing tasks ranging from electronic messaging to software development. The environment derives its power from the fact that this integration allows for content to be handled across different

tasks in a seamless manner. In order to work effectively with large Emacs sessions with many documents and applications open at the same time, the Emacspeak desktop provides a powerful collection of desktop management tools designed to help the user easily locate objects that pertain to a given task.

10.9 Personal Information Management

This section describes speech-enabled tools designed to aid in personal information management such as maintaining a daily calendar.

10.10 Desktop Applications

10.10.1 Spread Sheets

Spreadsheet applications present a two dimensional view of structured data where the field values are (possibly) mutually dependent. On the Emacspeak desktop, a speech-enabled spreadsheet application can be used to manipulate such data-driven documents ranging from simple cheque books and expense reports to complex investment portfolios. Where the traditional visual interface to spreadsheets is typically independent of the semantics of the data stored in the spreadsheet, the speech-enabled interface is derived from the meaning of the various fields making up the data. When presenting such information on a visual display, implicit visual layout can be used to cue the user to the meaning of different data fields.

On the other hand, in the case of an actively scrolling auditory display, the spoken output needs to explicitly convey both the value and interpretation of the different data items. In addition, the interface needs to enable an active dialog between user and application where the user is able to query the system about the possible meaning of a particular item of data.

Finally, the aural interface needs to enable *multiple* views of the display. In the visual interface, such *multiple* views are automatically enabled by the two dimensional layout combined with the eye's ability to move rapidly around the layout structure. Thus, while viewing any particular row of a portfolio, one can immediately see the current total value as well as the net gain or loss. The Emacs spread-sheet package dismal can be retrieved from ftp://cs.nyu.edu/pub/local/fox/dismal.

10.10.2 Forms Mode

Forms mode an Emacs mode designed to edit structured data records like the line shown from file /etc/passwd presents a user-friendly visual interface that displays the field name along with the field value. The user can edit the field value and save the file, at which point the data is written out using the underlying: delimited representation. Mode forms provides a flexible interface to associating meaning to the fields of such structured data files. For details on it use, see the forms-mode section of the online Emacs info documentation.

10.10.3 OCR — Reading Print Documents

Module emacspeak-ocr implements an OCR (Optical Character Recognition) front-end for the Emacspeak desktop.

Page image is acquired using tools from package SANE (Scanner Access Now Easy). The acquired image is run through the OCR engine if one is available, and the results

placed in a buffer that is suitable for browsing the results. This buffer is placed in mode emacspeak-ocr-mode a specialized mode for reading and scanning documents.

10.10.3.1 Emacspeak OCR Mode

Emacspeak OCR mode is a special major mode for document scanning and OCR.

Pre-requisites:

- A working scanner back-end like SANE on Linux.
- An OCR engine.

Make sure your scanner back-end works, and that you have the utilities to scan a document and acquire an image as a tiff file. Then set variable *emacspeak-ocr-scan-image-program* to point at this utility. By default, this is set to 'scanimage' which is the image scanning utility provided by SANE.

By default, this front-end attempts to compress the acquired tiff image; make sure you have a utility like tiffcp. Variable emacspeak-ocr-compress-image is set to 'tiffcp' by default; if you use something else, you should customize this variable.

Next, make sure you have an OCR engine installed and working. By default this front-end assumes that OCR is available as /usr/bin/ocr.

Once you have ensured that acquiring an image and applying OCR to it work independently of Emacs, you can use this Emacspeak front-end to enable easy OCR access from within Emacspeak.

The Emacspeak OCR front-end is launched by command emacspeak-ocr bound to C-e C-o.

This command switches to a special buffer that has OCR commands bounds to single keystrokes — see the key-binding list at the end of this description. Use Emacs online help facility to look up help on these commands.

Mode emacspeak-ocr-mode provides the necessary functionality to scan, OCR, read and save documents. By default, scanned images and the resulting text are saved under directory ~/ocr; see variable emacspeak-ocr-working-directory. Invoking command emacspeak-ocr-open-working-directory bound to d will open this directory.

By default, the document being scanned is named 'untitled'. You can name the document by using command *emacspeak-ocr-name-document* bound to *n*. The document name is used in constructing the name of the image and text files.

Here is a list of all emacspeak OCR commands along with their key-bindings and a brief description:

digit emacspeak-ocr-page Jumps to specified page in the OCR output.

- c emacspeak-ocr-set-compress-image-options Interactively update image compression options. Prompts with current setting in the minibuffer. Setting persists for current Emacs session.
- *emacspeak-ocr-set-scan-image-options* Interactively update scan image options. Prompts with current setting in the minibuffer. Setting persists for current Emacs session.
- spc emacspeak-ocr-read-current-page Speaks current page.

S	emacspeak-ocr-save-current-page Saves current page as a text file.
P	emacspeak-ocr-page Prompts for a page number and moves to the specified page.
J	emacspeak-ocr-forward-page Move forward to the next page.
Γ	emacspeak-ocr-backward-page Move back to the previous page.
d	$emacspeak\mbox{-}ocr\mbox{-}open\mbox{-}working\mbox{-}directory$ Open directory containing the results of OCR.
n	emacspeak-ocr-name-document Name current document.
0	emacspeak-ocr-recognize-image Launch OCR engine on a scanned image.
i	emacspeak-ocr-scan-image Acquire an image using scanimage.
RET	emacspeak-ocr-scan-and-recognize Scan and recognize a page.
W	emacspeak-ocr-write-document Write all pages of current document to a text file.
q	bury-buffer Bury the OCR buffer.
С	emacspeak-ocr-customize Customize Emacspeak OCR settings.

describe-mode Describe OCR mode.

?

11 Running Terminal Based Applications.

You can use the terminal emulator mode to run arbitrary terminal-based programs from within Emacs. You open a terminal emulator buffer using M-x term, with an extra carriage return to accept the default shell (such as bash). (Incidentally, don't confuse this command with M-x terminal-emulator, which starts an older terminal emulator mode not supported by Emacspeak.)

Three kinds of commands are used within the terminal emulator. Normal term commands use a prefix of C-c. The emacspeak commands for eterm mode use a prefix of C-t. Anything else is a normal shell command.

There are two sub-modes of term mode: char sub-mode and line sub-mode. In char sub-mode, emacspeak will only speak the final chunk of output — typically the last line displayed. Each character typed (except 'term-escape-char') is sent immediately. Use char sub-mode for screen oriented programs like vi or pine.

In line sub-mode, program output is spoken if user option eterm-autospeak is turned on. When you type a return at the end of the buffer, that line is sent as input, while return not at end copies the rest of the line to the end and sends it. When using terminal line mode with option eterm-autospeak turned on, speech feedback is similar to that obtained in regular shell-mode buffers.

The default is char sub-mode. You can switch to line sub-mode with C-c C-j (recall that control J is a linefeed), and back to char sub-mode with C-c C-k (think of character spelled with a K).

Note: Use char-mode with the terminal emulator for running screen-oriented programs like Lynx or Pine. For regular shell interaction just use M-x shell instead of using the terminal emulator.

11.1 Char Sub-mode of Term Mode

In char sub-mode of term, each character you type is sent directly to the inferior process without intervention from emacs, except for the escape character (usually C-c).

Here are some of the useful commands for the char sub-mode. Note that the usual commands for killing a buffer or switching buffers do not work in this mode, so new key bindings are supplied. The first five commands are different ways of leaving this mode.

C-c C-j

M-x term-line-mode

Switch to line sub-mode of term mode.

C-c o

M-x other-window

Select the next window on this frame. All windows on current frame are arranged in a cyclic order. This command selects the next window in that order. If there are no other windows, this command does nothing.

C-c C-f

M-x find-file

Switch to a buffer visiting a file, creating one if none already exists.

C-c 0

M-x delete-window

Remove current window from the display.

C-c k

M-x kill-buffer

Kill the current buffer.

C-c C-x C-c

M-x save-buffers-kill-emacs

Offer to save each buffer, then kill this Emacs process.

C-c C-d

M-x list-directory

Display a list of files in or matching DIRNAME, a la 'ls'. DIRNAME is globbed by the shell if necessary. Prefix arg (C-u) means supply -l switch to ls. The list appears in a second window.

C-c 1

M-x delete-other-windows

Delete all other windows in the frame, making the current window fill its frame.

C-c C-c

M-x term-send-raw

Send the last character typed through the terminal-emulator without any interpretation.

C-c (

M-x start-kbd-macro

Record subsequent keyboard input, defining a keyboard macro. The commands are recorded even as they are executed. Use C-c) to finish recording and make the macro available. Use M-x name-last-kbd-macro to give it a permanent name. Prefix arg (C-u) means append to last macro defined; This begins by re-executing that macro as if you had typed it again.

C-c)

M-x end-kbd-macro

Finish defining a keyboard macro. The definition was started by C-c (. The macro is now available for use via C-c e, or it can be given a name with M-x name-last-kbd-macro and then invoked under that name.

С-с е

M-x call-last-kbd-macro

Call the last keyboard macro that you defined with C-c (. A prefix argument serves as a repeat count. Zero means repeat until error.

You can get a list of all the key sequences with a C-c prefix by typing C-c C-h while in this sub-mode. Some of those commands are only available in the char sub-mode, while others are generally available.

11.2 Line Sub-mode of Term Mode

In line sub-mode of term mode, emacs editing commands work normally, until you type RETURN which sends the current line to the inferior process.

Here are some of the useful commands for the line sub-mode of the term mode. In addition, the usual commands for handling a buffer work in this mode ($C-x \circ t$) to switch windows, $C-x \nmid t$ to kill a buffer, $C-x \nmid t$ to find a file, and so forth).

C-c C-k

M-x term-char-mode

Switch to char sub-mode of term mode.

C-c C-z

M-x term-stop-subjob

Stop the current subjob. Resume the subjob in the foreground with the ordinary command fg, or run it in the background with bg. WARNING: if there is no current subjob, you can end up suspending the top-level process running in the buffer. If you accidentally do this, use M-x term-continue-subjob to resume the process. (This is not a problem with most shells, including bash, since they ignore this signal.)

C-c C-\

M-x term-quit-subjob

Send quit signal to the current subjob.

C-c C-c

M-x term-interrupt-subjob

Interrupt the current subjob.

C-c C-w

M-x backward-kill-word

Kill characters backward until encountering the end of a word.

C-c C-u

M-x term-kill-input

Kill all text from last stuff output by interpreter to point.

C-c C-a

M-x term-bol

Goes to the beginning of line, then skips past the prompt, if any. If a prefix argument is given (C-u), then no prompt skip — go straight to column 0.

C-c C-d

M-x term-send-eof

Send an end of file character (EOF) to the current buffer's process.

You can get a list of all the key sequences with a C-c prefix by typing C-c C-h while in this sub-mode. Some of those commands are only available in the line sub-mode, while others are generally available.

11.3 Eterm Mode Commands

The eterm mode maintains a pointer, which is not necessarily the same as the terminal's cursor. It is intended to be used in eterm's char submode. In char submode, C-t, (that's control-t followed by comma) will tell you where the eterm pointer is. C-t C-i will tell you where the terminal's cursor is. The top left corner of the window is "row 0 column 0".

The eterm pointer can be moved with C-t < (to the top of the screen), C-t > (to the bottom of the screen), C-t n (to the next line), C-t p (to the previous line), and C-t. (to the cursor). Each of these also speaks the line the pointer moves to. You can also search forward with C-t s.

These commands speak without moving the pointer: C-t 1 (current line), C-t w (current word), C-t c (current character), and C-t SPACE (from eterm pointer to cursor).

You may enter review mode with C-t q. In review mode, you can search the buffer and speak its contents, without disturbing the terminal. Commands for moving the pointer are similar to normal editing commands, but without a control key: n and p for next and previous line, p and p for forward and back by characters, p and p for the beginning or end of the buffer. p and p speak the current character, word, and line. p searches forward (not incrementally). A comma speaks the pointer location. A period moves the pointer to the terminal cursor. Return to normal term mode by typing p.

12 Emacspeak Commands And Options

Overview

This chapter documents the various Emacspeak modules and is auto-generated from the Emacspeak source code. It is meant to be a complete reference to the emacspeak implementation while also providing high-level usage summaries of some of the larger Emacspeak modules.

Each section provides a high-level overview of that module, followed by detailed description of the commands and options defined in that module.

Emacspeak modules can be classified as follows:

- 1. Modules that interface with various TTS engines, e.g. espeak-voices and dectalk-voices.
- 2. Modules that implement core Emacspeak functionality, e.g., emacspeak-speak, emacspeak-keymap, voice-lock and emacspeak-advice.
- 3. Emacspeak extensions that speech-enable various emacs packages, these are all named using the convention emacspeak-reak-capeak.

The first two of the above are mostly of interest when extending Emacspeak, or to learn how things are implemented. The third category is useful in understanding how emacspeak works with a given package; thus, when learning to use the Emacs Web Browser (EWW), read the EWW documentation, then read See Section 12.74 [emacspeak-eww], page 100.

This chapter documents a total of 1133 commands and 149 options.

12.1 amixer

Provide an emacs front-end to amixer, the sound mixer in ALSA that is used to configure the audio device.

The main entry point is command emacspeak-audio-setup bound to C-e). When called for the first time, this command builds up a database of available controls on the default audio device. These control names are then available for completion in the minibuffer. Pick a desired control, e.g., "master playback volume", and this displays a prompt with the current value. Enter the new value and press <RETURN>. To reset all controls to their default values, Press C-j.

12.1.1 Amixer Commands

12.1.1.1 amixer

amixer (&optional refresh)

[Command]

ALSA settings.

Interactive prefix arg refreshes cache.

(fn & optional REFRESH)

12.1.1.2 amixer-store

amixer-store [Command]

Persist amixer.

12.1.2 amixer Options

User Option amixer-device ALSA Control Device.

[Variable]

12.2 cd-tool

Provide an emacs front-end to cdtool. cdtool can be obtained as an rpm check using rpmfind or from its home site at sunsite.unc.edu /pub/Linux/apps/sound/cdrom/cli This module also provides the ability to play or save clips from a CD if you have cdda2wav installed. cdda2wav is a cd to wav converter.

12.2.1 Cd-Tool Commands

12.2.1.1 cd-tool

cd-tool [Command]

C-e DEL

<fn> DEL

Front-end to CDTool.

Key Action

_ ____

- + Next Track
- Previous Track

SPC Pause or Resume

- e Eject
- = Shuffle
- i CD Info
- p Play
- s Stop
- c clip

t

cap C Save clip to disk

12.2.2 cd-tool Options

track

User Option cd-tool-start-command

[Variable]

Name of cdstart command; most likely either "cdstart" or "cdplay".

12.3 dectalk-voices

This module defines the various voices used in voice-lock mode. This module is Dectalk specific.

12.3.1 Dectalk-Voices Commands

12.3.1.1 dectalk

dectalk [Command]

C-e d C-d

<fn> d C-d Dectalk TTS.

12.3.2 dectalk-voices Options

User Option dectalk-default-speech-rate
Default speech rate.

[Variable]

12.4 dom-addons

Useful additional functions for dom.el

12.5 dtk-interp

All requests to the speech server are factored out into this module. These calls are declared here as defun so they are inlined by the byte compiler. This keeps the code efficient, but gives us the flexibility to call out to different speech servers.

12.6 dtk-speak

Defines the TTS interface. Here, prefix dtk is synonymous with tts.

12.6.1 Dtk-Speak Commands

12.6.1.1 dtk-add-cleanup-pattern

 ${\tt dtk-add-cleanup-pattern} \ \ (\textbf{\&optional} \ \ delete)$

[Command]

С-е d а

<fn> d a

Add this pattern to the list of repeating patterns. Optional interactive prefix arg deletes this pattern if previously added.

(fn &optional DELETE)

12.6.1.2 dtk-cloud

dtk-cloud [Command]

 $C-e \ d \ C-c$

<fn> d C-c

Select Cloud TTS server.

12.6.1.3 dtk-list-languages

dtk-list-languages [Command]

Say the available languages.

12.6.1.4 dtk-local-server

dtk-local-server (program &optional prompt-port) [Command]

С-е d L

<fn> d L

Select and start an local speech server interactively. Local server lets Emacspeak on a remote host connect back via SSH port forwarding for instance. Argument PROGRAM specifies the speech server program. Port defaults to dtk-local-server-port

(fn PROGRAM & optional PROMPT-PORT)

12.6.1.5 dtk-notify-initialize

dtk-notify-initialize

[Command]

C-e d C-n

< fn > d C - n

Initialize notification TTS stream.

12.6.1.6 dtk-notify-shutdown

dtk-notify-shutdown

[Command]

C-e d C-s

<fn> d C-s

Shutdown notification TTS stream.

12.6.1.7 dtk-notify-stop

dtk-notify-stop

[Command]

С-е .

<fn> .

Stop speech on notification stream.

12.6.1.8 dtk-reset-state

dtk-reset-state

[Command]

 $C-e \ d \ R$

<fn> d R

Reset TTS engine.

12.6.1.9 dtk-select-server

dtk-select-server (program &optional device)

[Command]

С-е d d

< fn > dd

Select speech server 'program'.

Optional arg device sets up environment variable

ALSA_DEFAULT.

(fn PROGRAM & optional DEVICE)

12.6.1.10 dtk-set-character-scale

dtk-set-character-scale (factor &optional prefix)

[Command]

С-е d f

<fn> d f

Set character scale FACTOR for speech rate.

Speech rate is scaled by this factor when speaking characters.

Interactive PREFIX arg means set the global default value, and then set the current local value to the result.

(fn FACTOR & optional PREFIX)

12.6.1.11 dtk-set-chunk-separator-syntax

dtk-set-chunk-separator-syntax (s)

[Command]

C-e d RET

<fn> d RET

Interactively set how text is split in chunks.

Argument S specifies the syntax class.

(fn S)

12.6.1.12 dtk-set-language

dtk-set-language (lang)

[Command]

С-е d S

<fn> d S

```
Set language to lang.
     (fn LANG)
12.6.1.13 dtk-set-next-language
dtk-set-next-language
                                                                      [Command]
     C-e \ d \ N
     < fn > dN
     Switch to next language
12.6.1.14 dtk-set-predefined-speech-rate
dtk-set-predefined-speech-rate (&optional prefix)
                                                                      [Command]
     C-e d 9
     С-е d 8
     С-е d 7
     С-е d 6
     C-e d 5
     С-е d 4
     C-e d 3
     C-e d 2
     С-е d 1
     C-e d 0
     <fn> d 9
     <fn> d 8
     <fn> d 7
     <fn> d 6
     <fn> d 5
     < fn > d4
     <fn> d 3
     <fn> d 2
     <fn> d 1
```

(fn &optional PREFIX)

Formula used is:

Set speech rate to one of nine predefined levels. Interactive PREFIX arg says to set the rate globally.

rate = dtk-speech-rate-base + dtk-speech-rate-step * level.

<fn> d 0

12.6.1.15 dtk-set-preferred-language

dtk-set-preferred-language (alias lang)

[Command]

Set the alias of the preferred language:

For example if alias="en" lang="en_GB",

then the following call:

dtk-set-language("en")

will set "en_GB".

(fn ALIAS LANG)

12.6.1.16 dtk-set-previous-language

dtk-set-previous-language

[Command]

C-e d P

<fn> d P

Switch to previous language

12.6.1.17 dtk-set-punctuations

dtk-set-punctuations (mode &optional prefix)

[Command]

C-e d p

<fn> d p

Set punctuation mode to MODE.

Possible values are 'some', 'all', or 'none'.

Interactive PREFIX arg means set the global default value, and then set the current local value to the result.

(fn MODE & optional PREFIX)

12.6.1.18 dtk-set-punctuations-to-all

${\tt dtk-set-punctuations-to-all~(\&optional~prefix)}$

[Command]

Set punctuation mode to all.

Interactive PREFIX arg sets punctuation mode globally.

(fn &optional PREFIX)

12.6.1.19 dtk-set-punctuations-to-some

dtk-set-punctuations-to-some (&optional prefix)

[Command]

Set punctuation mode to some.

Interactive PREFIX arg sets punctuation mode globally.

(fn &optional PREFIX)

12.6.1.20 dtk-set-rate

dtk-set-rate (rate &optional prefix)

[Command]

С-е d r

<fn> d r

Set speaking RATE.

Interactive PREFIX arg means set the global default value, and then set the current local value to the result.

(fn RATE & optional PREFIX)

12.6.1.21 dtk-stop

dtk-stop (&optional all)

[Command]

C-e s

< fn > s

Stop speech.

Optional arg 'all' or interactive call silences notification stream as well.

(fn & optional ALL)

12.6.1.22 dtk-toggle-caps

dtk-toggle-caps (&optional prefix)

[Command]

C-e d c

<fn> d c

Toggle caps.

when set, capitalized words are preceded by a short 'cap', and upper-case words are preceded by a 'ac' spoken in a lower voice. Interactive PREFIX arg means toggle the global default value, and then set the current local value to the result.

12.6.1.23 dtk-toggle-punctuation-mode

dtk-toggle-punctuation-mode (&optional prefix)

[Command]

C-ed,

< fn > d,

Toggle punctuation mode between "some" and "all". Interactive PREFIX arg makes the new setting global.

(fn &optional PREFIX)

12.6.1.24 dtk-toggle-quiet

dtk-toggle-quiet (&optional prefix)

[Command]

Toggles state of dtk-quiet.

Turning on this switch silences speech. Optional interactive prefix arg causes this setting to become global.

12.6.1.25 dtk-toggle-speak-nonprinting-chars

dtk-toggle-speak-nonprinting-chars (&optional prefix)

[Command]

C-e d n

< fn > dn

Toggle speak-nonprinting-chars.

Interactive PREFIX arg means toggle the global default value, and then set the current local value to the result.

12.6.1.26 dtk-toggle-split-caps

dtk-toggle-split-caps (&optional prefix)

[Command]

C-e d s

<fn> ds

Toggle split caps mode.

Split caps mode is useful when reading Hungarian notation in program source code. Interactive PREFIX arg means toggle the global default value, and then set the current local value to the result.

12.6.1.27 dtk-toggle-splitting-on-white-space

dtk-toggle-splitting-on-white-space

[Command]

C-e d SPC

<fn> d SPC

Toggle splitting of speech on white space.

Split text by clause boundaries, or also split on whitespace.

12.6.1.28 dtk-toggle-strip-octals

dtk-toggle-strip-octals (&optional prefix)

[Command]

 $C-e \ d \ o$

< fn > do

Toggle stripping of octals.

Interactive prefix arg means

toggle the global default value, and then set the current local value to the result.

12.6.1.29 tts-restart

tts-restart

[Command]

С-е С-s

< fn > C-s

Restart TTS server.

12.6.1.30 tts-speak-version

tts-speak-version

[Command]

С-е d V

< fn > dV

Speak version.

12.6.2 dtk-speak Options

User Option dtk-allcaps-prefix

[Variable]

Prefix used to indicate AllCaps

User Option dtk-caps-prefix

[Variable]

Prefix used to indicate capitalization

User Option dtk-cleanup-repeats

[Variable]

List of repeating patterns to clean up. Use command 'dtk-add-cleanup-pattern' bound to C-e d a to add more patterns.

If more than 3 consecutive occurrences of a specified pattern is found, emacspeak replaces it with a repeat count.

User Option dtk-cloud-server

[Variable]

Set this to your preferred cloud TTS server.

User Option dtk-local-engine

[Variable]

Engine we use for our local TTS server.

User Option dtk-speak-nonprinting-chars

[Variable]

Option that specifies handling of non-printing chars. Non nil value means non printing characters should be spoken as their octal value. Set this to t to avoid a dectalk bug that makes the speech box die if it seems some accented characters in certain contexts.

User Option dtk-speech-rate-base

[Variable]

Value of lowest tolerable speech rate.

User Option dtk-speech-rate-step

[Variable]

Value of speech rate increment used by command 'dtk-set-predefined-speech-rate'.

User Option dtk-use-tones

[Variable]

Toggle tones.

User Option tts-notification-device

[Variable]

Virtual ALSA device to use for notifications stream.

12.7 dtk-unicode

This Provides Unicode support to the speech layer.

12.7.1 Dtk-Unicode Commands

12.7.1.1 dtk-unicode-customize-char

dtk-unicode-customize-char (char replacement) Add a custom replacement string for CHAR.

[Command]

When called interactively, CHAR defaults to the character after point.

(fn CHAR REPLACEMENT)

12.7.1.2 dtk-unicode-uncustomize-char

dtk-unicode-uncustomize-char (char)

[Command]

Delete custom replacement for CHAR.

When called interactively, CHAR defaults to the character after point.

(fn CHAR)

12.7.2 dtk-unicode Options

User Option dtk-unicode-character-replacement-alist

[Variable]

Replacements for characters.

User Option dtk-unicode-name-transformation-rules-alist

[Variable]

Alist of character name transformation rules.

User Option dtk-unicode-process-utf8

[Variable]

Turn this off when working with TTS engines that handle UTF8.

User Option dtk-unicode-untouched-charsets

[Variable]

[Command]

Characters of these charsets are ignored by dtk-unicode-replace-chars.

12.8 emacspeak

Emacspeak extends Emacs to be a fully functional audio desktop. This is the main emacspeak module.

12.8.1 Emacspeak Commands

12.8.1.1 emacspeak-toggle-comint-output-monitor

emacspeak-toggle-comint-output-monitor (&optional prefix)

C-e o

<fn> o

Toggle state of Emacspeak comint monitor.

When turned on, comint output is automatically spoken. Turn this on if you want your shell to speak its results. Interactive PREFIX arg means toggle the global default value, and then set the current local value to the result.

12.8.2 emacspeak Options

User Option emacspeak-play-emacspeak-startup-icon If set to T, emacspeak plays its icon as it launches.

[Variable]

12.9 emacspeak-2048

Speech-enable 2048 Game

12.9.1 Emacspeak-2048 Commands

12.9.1.1 emacspeak-2048-add-column

emacspeak-2048-add-column

[Command]

Add a column to the current board.

12.9.1.2 emacspeak-2048-add-row

emacspeak-2048-add-row

[Command]

Add a row to the current board.

12.9.1.3 emacspeak-2048-drop-column

emacspeak-2048-drop-column

[Command]

Drop last row from the current board.

12.9.1.4 emacspeak-2048-drop-row

emacspeak-2048-drop-row

[Command]

Drop last row from the current board.

12.9.1.5 emacspeak-2048-export

emacspeak-2048-export (&optional prompt)

[Command]

Exports game stack to a file.

Optional interactive prefix arg prompts for a file.

Note that the file is overwritten silently.

(fn &optional PROMPT)

12.9.1.6 emacspeak-2048-import

emacspeak-2048-import (&optional prompt)

[Command]

Import game.

Optional interactive prefix arg prompts for a filename.

(fn &optional PROMPT)

12.9.1.7 emacspeak-2048-pop-state

emacspeak-2048-pop-state

[Command]

Reset state from stack.

12.9.1.8 emacspeak-2048-prune-stack

emacspeak-2048-prune-stack (drop)

[Command]

Prune game stack to specified length.

(fn DROP)

12.9.1.9 emacspeak-2048-push-state

emacspeak-2048-push-state

[Command]

Push current game state on stack.

12.9.1.10 emacspeak-2048-randomize-game

emacspeak-2048-randomize-game (&optional count)

[Command]

Puts game in a randomized new state.

(fn &optional COUNT)

12.9.1.11 emacspeak-2048-score

emacspeak-2048-score

[Command]

Show total on board.

12.9.1.12 emacspeak-2048-speak-board

emacspeak-2048-speak-board

[Command]

Speak board.

12.9.1.13 emacspeak-2048-speak-transposed-board

emacspeak-2048-speak-transposed-board

[Command]

Speak board column-wise.

12.10 emacspeak-abc-mode

ABC-MODE == Specialized mode for editing ABC Music notation. See http://www.lesession.co.uk/abc/abc_notation.htm for details. This package speech-enables abc-mode.

12.11 emacspeak-actions

Define mode-specific actions. Actions are defined by adding them to hook emacspeak-<mode-name>-actions-hook

12.12 emacspeak-add-log

Speech-enable Changelog mode

12.13 emacspeak-advice

This module defines the advice forms for making the core of Emacs speak Advice forms that are specific to Emacs subsystems do not belong here! I violate this at present by advising completion. Note that we needed to advice a lot more for Emacs 19 and Emacs 20 than we do for Emacs 21 and Emacs 22. As of August 2007, this file is being purged of advice forms not needed in Emacs 22.

12.13.1 Emacspeak-Advice Commands

12.13.1.1 emacspeak-eldoc-speak-doc

emacspeak-eldoc-speak-doc

[Command]

C-,,

C-x @ a .

Speak Eldoc documentation if available.

12.13.2 emacspeak-advice Options

User Option emacspeak-speak-errors Specifies if error messages are cued. [Variable]

User Option emacspeak-speak-messages-filter

[Variable]

List of strings used to filter spoken messages.

[Variable]

User Option emacspeak-speak-tooltips Enable to get tooltips spoken.

12.14 emacspeak-amark

Structure emacspeak-amark holds a bookmark into an mp3 file path: fully qualified pathname to file being marked name: Bookmark tag Position: time offset from start

This library will be used from emacspeak-m-player, emacspeak-mplayer and friends to set and jump to bookmarks.

12.14.1 Emacspeak-Amark Commands

12.14.1.1 emacspeak-amark-add

emacspeak-amark-add (path name position)

[Command]

Add an AMark to the buffer local list of AMarks. AMarks are bookmarks in audio content. If there is an existing amark of the given name, it is updated with path and position.

(fn PATH NAME POSITION)

12.14.1.2 emacspeak-amark-find

emacspeak-amark-find (name)

[Command]

Return matching AMark if found in buffer-local AMark list.

(fn NAME)

12.14.1.3 emacspeak-amark-save

emacspeak-amark-save

[Command]

Save buffer-local AMarks in currently playing directory.

12.15 emacspeak-analog

Speech-enables package analog –convenient log analyzer

12.15.1 Emacspeak-Analog Commands

12.15.1.1 emacspeak-analog-backward-field-or-char

emacspeak-analog-backward-field-or-char

[Command]

Move back to next field if field specification is available.

Otherwise move to previous char.

Speak field or char moved to.

12.15.1.2 emacspeak-analog-forward-field-or-char

emacspeak-analog-forward-field-or-char

[Command]

Move forward to next field if field specification is available.

Otherwise move to next char.

Speak field or char moved to.

12.15.1.3 emacspeak-analog-next-line

emacspeak-analog-next-line

[Command]

Move down and speak current field.

12.15.1.4 emacspeak-analog-previous-line

emacspeak-analog-previous-line

[Command]

Move up and speak current field.

12.15.1.5 emacspeak-analog-speak-this-field

emacspeak-analog-speak-this-field Speak current field. [Command]

12.16 emacspeak-apt-sources

This module speech-enables apt-sources.el that is included in the debian-el package and provides a major mode for editing APT's sources.list file.

12.17 emacspeak-arc

Auditory interface to archive mode This lets Emacs manipulate package files such as .zip and .jar files.

12.17.1 Emacspeak-Arc Commands

12.17.1.1 emacspeak-arc-speak-file-modification-time

 ${\tt emacspeak-arc-speak-file-modification-time}$

Speak modification time of the file on current line

[Command]

12.17.1.2 emacspeak-arc-speak-file-name

emacspeak-arc-speak-file-name

[Command]

Speak the name of the file on current line

12.17.1.3 emacspeak-arc-speak-file-permissions

emacspeak-arc-speak-file-permissions Speak permissions of file current entry [Command]

12.17.1.4 emacspeak-arc-speak-file-size

emacspeak-arc-speak-file-size

[Command]

Speak the size of the file on current line

12.18 emacspeak-auctex

Speech-enables the AucTeX package. AucTeX, now available from ELPA, has been my authoring environment of choice for writing LaTeX since 1991.

12.18.1 Emacspeak-Auctex Commands

12.18.1.1 emacspeak-auctex-comma-at-end-of-word

emacspeak-auctex-comma-at-end-of-word

[Command]

Move to the end of current word and add a comma.

12.18.1.2 emacspeak-auctex-end-of-word

emacspeak-auctex-end-of-word (arg)

[Command]

move to end of word

(fn ARG)

12.18.1.3 emacspeak-auctex-lacheck-buffer-file

emacspeak-auctex-lacheck-buffer-file

[Command]

Run Lacheck on current buffer.

12.18.1.4 emacspeak-auctex-tex-tie-current-word

emacspeak-auctex-tex-tie-current-word (n)

[Command]

Tie the next n words.

(fn N)

12.19 emacspeak-bbc

BBC developer API (backstage) is now history. that implementation is in obsolete/emacspeak-bbc-backstage.el This module contains a light-weight client.

12.19.1 Emacspeak-Bbc Commands

12.19.1.1 emacspeak-bbc-get-iplayer-stream-pid

 ${\tt emacspeak-bbc-get-iplayer-stream-pid}\ (pid)$

[Command]

Stream using get_iplayer.

(fn PID)

12.19.1.2 emacspeak-bbc-get-iplayer-stream-url

emacspeak-bbc-get-iplayer-stream-url (url)

[Command]

Stream using get_iplayer.

(fn URL)

12.19.1.3 emacspeak-bbc-schedule

emacspeak-bbc-schedule

[Command]

Browse BBC Schedule from get_iplayer radio cache

12.20 emacspeak-bbdb

Speech-enables BBDB. I have used BBDB to manage email address and contact information since 1991.

12.21 emacspeak-bibtex

Speech extensions for bibtex mode.

12.22 emacspeak-bookmark

Speech enable bookmarks

12.23 emacspeak-bookshare

BOOKSHARE == http://www.bookshare.org provides book access to print-disabled users. It provides a simple Web API http://developer.bookshare.org This module implements an Emacspeak Bookshare client.

12.23.1 requirements

- You need to get your own API key
- You need Emacs built with libxml2 support

12.23.2 Usage

The main entry point is command emacspeak-bookshare bound to *C-e C-b*. This creates a special *Bookshare Interaction* buffer that is placed in *emacspeak-bookshare-mode*. Se the help for that mode on detailed usage instructions and key-bindings.

12.23.3 Sample Interaction

12.23.4 Emacspeak-Bookshare Commands

12.23.4.1 emacspeak-bookshare

emacspeak-bookshare

[Command]

C-e C-b

< fn > C-b

Bookshare Interaction.

12.23.4.2 emacspeak-bookshare-action

emacspeak-bookshare-action

[Command]

Call action specified by invoking key.

12.23.4.3 emacspeak-bookshare-author-search

emacspeak-bookshare-author-search (query &optional category) [Command]

Perform a Bookshare author search.

Interactive prefix arg filters search by category.

(fn QUERY & optional CATEGORY)

12.23.4.4 emacspeak-bookshare-browse

emacspeak-bookshare-browse

se [Command]

Browse Bookshare.

12.23.4.5 emacspeak-bookshare-browse-latest

emacspeak-bookshare-browse-latest

[Command]

Return latest books.

12.23.4.6 emacspeak-bookshare-browse-popular

emacspeak-bookshare-browse-popular (&optional category)

[Command]

Browse popular books.

Optional interactive prefix arg prompts for a category to use as a filter.

(fn &optional CATEGORY)

12.23.4.7 emacspeak-bookshare-debugInfo-handler

emacspeak-bookshare-debugInfo-handler (&rest arguments)

[Command]

Do nothing and return nil.

This function accepts any number of ARGUMENTS, but ignores them.

Also see 'always'.

(fn &rest ARGUMENTS)

12.23.4.8 emacspeak-bookshare-download-audio

emacspeak-bookshare-download-audio (id target)

[Command]

Download audio format of specified book to target location.

(fn ID TARGET)

12.23.4.9 emacspeak-bookshare-download-audio-at-point

emacspeak-bookshare-download-audio-at-point

[Command]

Download audio version of book under point.

Target location is generated from author and title.

12.23.4.10 emacspeak-bookshare-download-brf

emacspeak-bookshare-download-brf (id target)

[Command]

Download Daisy format of specified book to target location.

(fn ID TARGET)

12.23.4.11 emacspeak-bookshare-download-brf-at-point

emacspeak-bookshare-download-brf-at-point

[Command]

Download Braille version of book under point.

Target location is generated from author and title.

12.23.4.12 emacspeak-bookshare-download-daisy

emacspeak-bookshare-download-daisy (id target)

[Command]

Download Daisy format of specified book to target location.

(fn ID TARGET)

12.23.4.13 emacspeak-bookshare-download-daisy-at-point

emacspeak-bookshare-download-daisy-at-point

[Command]

Download Daisy version of book under point.

Target location is generated from author and title.

12.23.4.14 emacspeak-bookshare-download-epub-3

emacspeak-bookshare-download-epub-3 (id target)

[Command]

Download epub-3 format of specified book to target location.

(fn ID TARGET)

12.23.4.15 emacspeak-bookshare-download-epub-3-at-point

emacspeak-bookshare-download-epub-3-at-point

[Command]

Download epub-3 version of book under point.

Target location is generated from author and title.

12.23.4.16 emacspeak-bookshare-download-internal

emacspeak-bookshare-download-internal (url target)

[Command]

Download content to target location.

(fn URL TARGET)

12.23.4.17 emacspeak-bookshare-eww

emacspeak-bookshare-eww (directory)

[Command]

Render book using EWW

(fn DIRECTORY)

12.23.4.18 emacspeak-bookshare-expand-at-point

emacspeak-bookshare-expand-at-point

[Command]

Expand entry at point by retrieving metadata.

Once retrieved, memoize to avoid multiple retrievals.

12.23.4.19 emacspeak-bookshare-extract-and-view

emacspeak-bookshare-extract-and-view (url)

[Command]

Extract content referred to by link under point, and render via the browser.

(fn URL)

12.23.4.20 emacspeak-bookshare-extract-xml

emacspeak-bookshare-extract-xml (url)

[Command]

Extract content referred to by link under point, and return an XML buffer.

(fn URL)

12.23.4.21 emacspeak-bookshare-flush-lines

emacspeak-bookshare-flush-lines (regexp)

[Command]

Flush lines matching regexp in Bookshare buffer.

(fn REGEXP)

12.23.4.22 emacspeak-bookshare-fulltext

emacspeak-bookshare-fulltext (directory)

[Command]

Display fulltext contents of book in specified directory.

Useful for fulltext search in a book.

(fn DIRECTORY)

12.23.4.23 emacspeak-bookshare-fulltext-search

emacspeak-bookshare-fulltext-search (query)

[Command]

Perform a Bookshare fulltext search.

(fn QUERY)

12.23.4.24 emacspeak-bookshare-get-more-results

emacspeak-bookshare-get-more-results

[Command]

Get next page of results for last query.

12.23.4.25 emacspeak-bookshare-id-search

emacspeak-bookshare-id-search (query)

[Command]

Perform a Bookshare id search.

(fn QUERY)

12.23.4.26 emacspeak-bookshare-isbn-search

emacspeak-bookshare-isbn-search (query)

[Command]

Perform a Bookshare isbn search.

(fn QUERY)

12.23.4.27 emacspeak-bookshare-list-preferences

emacspeak-bookshare-list-preferences

[Command]

Return preference list.

12.23.4.28 emacspeak-bookshare-mode

emacspeak-bookshare-mode

[Command]

A Bookshare front-end for the Emacspeak desktop.

The Emacspeak Bookshare front-end is launched by command emacspeak-bookshare bound to C-e C-b

This command switches to a special buffer that has Bookshare commands bounds to single keystrokes—see the key-binding list at the end of this description. Use Emacs online help facility to look up help on these commands.

emacspeak-bookshare-mode provides the necessary functionality to Search and download Bookshare material, Manage a local library of downloaded Bookshare content, And commands to easily read newer Daisy books from Bookshare.

Here is a list of all emacspeak Bookshare commands with their key-bindings:

a Author Search

A Author/Title Search

t Title Search

s Full Text Search

d Date Search

b Browse

key binding

ESC Prefix Command

SPC emacspeak-bookshare-expand-at-point

+ emacspeak-bookshare-action

/ emacspeak-bookshare-action

3 emacspeak-bookshare-download-epub-3-at-point

A emacspeak-bookshare-download-audio-at-point

B emacspeak-bookshare-download-brf-at-point

C emacspeak-bookshare-fulltext

D emacspeak-bookshare-download-daisy-at-point

E emacspeak-bookshare-eww

I emacspeak-bookshare-action

P emacspeak-bookshare-action

S emacspeak-bookshare-action

U emacspeak-bookshare-unpack-at-point

V emacspeak-bookshare-view-at-point

[backward-page

forward-page

a emacspeak-bookshare-action

b emacspeak-bookshare-browse

c emacspeak-bookshare-toc-at-point

d emacspeak-bookshare-action

e emacspeak-bookshare-eww

f emacspeak-bookshare-flush-lines

i emacspeak-bookshare-action

j next-line

k previous-line

l.. m emacspeak-bookshare-action

n emacspeak-bookshare-next-result

p emacspeak-bookshare-previous-result

q bury-buffer

s.. t emacspeak-bookshare-action

v emacspeak-bookshare-view

M-n emacspeak-bookshare-next-result M-p emacspeak-bookshare-previous-result

In addition to any hooks its parent mode 'special-mode' might have run, this mode runs the hook 'emacspeak-bookshare-mode-hook', as the final or penultimate step during initialization.

12.23.4.29 emacspeak-bookshare-next-result

emacspeak-bookshare-next-result

[Command]

Move to next result.

12.23.4.30 emacspeak-bookshare-periodical-list

emacspeak-bookshare-periodical-list

[Command]

Return list of periodicals.

12.23.4.31 emacspeak-bookshare-previous-result

emacspeak-bookshare-previous-result

[Command]

Move to previous result.

12.23.4.32 emacspeak-bookshare-set-preference

emacspeak-bookshare-set-preference (preference-id value)

[Command]

Set preference preference-id to value.

(fn PREFERENCE-ID VALUE)

12.23.4.33 emacspeak-bookshare-since-search

emacspeak-bookshare-since-search (query &optional category)

[Command]

Perform a Bookshare date search.

Optional interactive prefix arg filters by category.

(fn QUERY & optional CATEGORY)

12.23.4.34 emacspeak-bookshare-title-search

emacspeak-bookshare-title-search (query &optional category)

[Command]

Perform a Bookshare title search.

Interactive prefix arg filters search by category.

(fn QUERY & optional CATEGORY)

12.23.4.35 emacspeak-bookshare-toc

emacspeak-bookshare-toc (directory)

[Command]

View TOC for book in specified directory.

(fn DIRECTORY)

12.23.4.36 emacspeak-bookshare-toc-at-point

emacspeak-bookshare-toc-at-point

[Command]

View TOC for book at point.

Make sure it's downloaded and unpacked first.

12.23.4.37 emacspeak-bookshare-unpack-at-point

emacspeak-bookshare-unpack-at-point

[Command]

Unpack downloaded content if necessary.

12.23.4.38 emacspeak-bookshare-url-executor

emacspeak-bookshare-url-executor (url)

[Command]

Custom URL executor for use in Bookshare TOC.

(fn URL)

12.23.4.39 emacspeak-bookshare-version-handler

emacspeak-bookshare-version-handler (&rest arguments)

[Command]

Do nothing and return nil.

This function accepts any number of ARGUMENTS, but ignores them.

Also see 'always'.

(fn &rest ARGUMENTS)

12.23.4.40 emacspeak-bookshare-view

emacspeak-bookshare-view (directory)

[Command]

View book in specified directory.

(fn DIRECTORY)

12.23.4.41 emacspeak-bookshare-view-at-point

emacspeak-bookshare-view-at-point

[Command]

View book at point.

Make sure it's downloaded and unpacked first.

12.23.4.42 emacspeak-bookshare-view-page-range

emacspeak-bookshare-view-page-range (url)

[Command]

Play pages in specified page range from URL.

(fn URL)

12.23.5 emacspeak-bookshare Options

User Option emacspeak-bookshare-api-key

[Variable]

Web API key for this application. See http://developer.bookshare.org/docs for details on how to get an API key.

User Option emacspeak-bookshare-directory

[Variable]

Customize this to the root of where books are organized.

12.24 emacspeak-browse-kill-ring

Browse the kill ring using browse-kill-ring.el - interactively insert items from kill-ring (by Colin Walters)

12.25 emacspeak-bs

speech-enable bs.el – an alternative to Emacs' default list-buffers

12.25.1 Emacspeak-Bs Commands

12.25.1.1 emacspeak-bs-speak-buffer-line

emacspeak-bs-speak-buffer-line

[Command]

Speak information about this buffer

12.26 emacspeak-buff-menu

Speech-enable buffer-menus.

12.26.1 Emacspeak-Buff-Menu Commands

12.26.1.1 emacspeak-list-buffers-next-line

 ${\tt emacspeak-list-buffers-next-line}\ (count)$

[Command]

Speech enabled buffer menu navigation

(fn COUNT)

12.26.1.2 emacspeak-list-buffers-previous-line

emacspeak-list-buffers-previous-line (count)

[Command]

Speech enabled buffer menu navigation

(fn COUNT)

12.26.1.3 emacspeak-list-buffers-speak-buffer-line

${\tt emacspeak-list-buffers-speak-buffer-line}$

[Command]

Speak information about this buffer

12.26.1.4 emacspeak-list-buffers-speak-buffer-name

${\tt emacspeak-list-buffers-speak-buffer-name}$

[Command]

Speak the name of the buffer on this line

12.27 emacspeak-c

Make C and C++ mode more emacspeak friendly Works with both boring c-mode and the excellent cc-mode

12.27.1 Emacspeak-C Commands

12.27.1.1 emacspeak-c-speak-semantics

emacspeak-c-speak-semantics

[Command]

Speak the C semantics of this line.

12.28 emacspeak-calc

This module extends the Emacs Calculator. Extensions are minimal. We force a calcload-everything, And use an after advice on this function To fix all of calc's interactive functions

12.29 emacspeak-calculator

Speech enable desktop calculator

12.30 emacspeak-calendar

This module speech enables the Emacs Calendar.

12.30.1 Emacspeak-Calendar Commands

$12.30.1.1\ emacspeak-appt-repeat-announcement$

emacspeak-appt-repeat-announcement

[Command]

C-e A

<fn> A

Speaks the most recently displayed appointment message if any.

12.30.1.2 emacspeak-calendar-setup-sunrise-sunset

emacspeak-calendar-setup-sunrise-sunset

[Command]

Set up geo-coordinates using Google Maps reverse geocoding.

To use, configure variable gmaps-my-address via M-x customize-variable.

12.30.1.3 emacspeak-calendar-speak-date

emacspeak-calendar-speak-date

[Command]

Speak the date under point when called in Calendar Mode.

12.30.1.4 emacspeak-calendar-sunrise-sunset

emacspeak-calendar-sunrise-sunset (address &optional arg)

[Command]

Display sunrise/sunset for specified address.

(fn ADDRESS & optional ARG)

12.31 emacspeak-chess

The Emacs Chess package provides a rich environment for playing and exploring Chess Games. That package comes with a light-weight module that announces moves.

12.31.1 Emacspeak-Chess Commands

12.31.1.1 emacspeak-chess-east

emacspeak-chess-east

[Command]

Move east one step.

12.31.1.2 emacspeak-chess-goto-target

emacspeak-chess-goto-target

[Command]

Jump to the most recent target square.

12.31.1.3 emacspeak-chess-jump

emacspeak-chess-jump (coord)

[Command]

Jump to square specified as coord.

(fn COORD)

12.31.1.4 emacspeak-chess-look-east

emacspeak-chess-look-east

[Command]

Look east

12.31.1.5 emacspeak-chess-look-king

emacspeak-chess-look-king

[Command]

Look along non-empty squares reachable by the king from current position.

12.31.1.6 emacspeak-chess-look-knight

emacspeak-chess-look-knight

[Command]

Look along non-empty squares reachable by a knight from current position.

12.31.1.7 emacspeak-chess-look-north

${\tt emacspeak-chess-look-north}$

[Command]

Look north

12.31.1.8 emacspeak-chess-look-northeast

${\tt emacspeak-chess-look-northeast}$

[Command]

Look northeast

12.31.1.9 emacspeak-chess-look-northwest

${\tt emacspeak-chess-look-northwest}$

[Command]

Look northwest

12.31.1.10 emacspeak-chess-look-south

emacspeak-chess-look-south

[Command]

Look south

12.31.1.11 emacspeak-chess-look-southeast

emacspeak-chess-look-southeast

[Command]

Look southeast

12.31.1.12 emacspeak-chess-look-southwest

emacspeak-chess-look-southwest

[Command]

Look southwest

12.31.1.13 emacspeak-chess-look-west

emacspeak-chess-look-west

[Command]

Look west

12.31.1.14 emacspeak-chess-north

emacspeak-chess-north

[Command]

Move north one step.

12.31.1.15 emacspeak-chess-northeast

${\tt emacspeak-chess-northeast}$

[Command]

Move northeast one step.

12.31.1.16 emacspeak-chess-northwest

emacspeak-chess-northwest

Move northwest one step.

[Command]

12.31.1.17 emacspeak-chess-south

emacspeak-chess-south

Move south one step.

[Command]

12.31.1.18 emacspeak-chess-southeast

emacspeak-chess-southeast

Move southeast one step.

[Command]

12.31.1.19 emacspeak-chess-southwest

emacspeak-chess-southwest

Move southwest one step.

[Command]

12.31.1.20 emacspeak-chess-speak-board

emacspeak-chess-speak-board

Speak complete board. Only useful in end-states.

[Command]

12.31.1.21 emacspeak-chess-speak-piece-squares

emacspeak-chess-speak-piece-squares (piece)

Prompt for a piece (single char) and speak its locations on the board. Piece is specified as a char using SAN notation. Use 'w' for all whites pieces, 'l' for all black pieces,

and 'a' for entire board..

[Command]

(fn PIECE)

12.31.1.22 emacspeak-chess-speak-that-square

emacspeak-chess-speak-that-square (coord)

Speak square at specified coord.

[Command]

(fn COORD)

12.31.1.23 emacspeak-chess-speak-this-move

emacspeak-chess-speak-this-move

Speak move at current display index.

[Command]

12.31.1.24 emacspeak-chess-speak-this-square

emacspeak-chess-speak-this-square

Speak square under point.

[Command]

12.31.1.25 emacspeak-chess-speak-who-targets

emacspeak-chess-speak-who-targets (piece)

[Command]

Speak description of squares that can target current square. Argument 'piece' specifies piece-or-color as in command emacspeak-chess-speak-piece-squares

(fn PIECE)

12.31.1.26 emacspeak-chess-view-rank-or-file

emacspeak-chess-view-rank-or-file

[Command]

View a complete rank or file from white's perspective.

12.31.1.27 emacspeak-chess-west

emacspeak-chess-west

[Command]

Move west one step.

12.32 emacspeak-cider

Speech-Enable CIDER — Clojure IDE

12.33 emacspeak-ciel

Package ciel provides vim's "copy inside" and "clear inside" commands. Emacspeak binds these commands to <Super i> and <Super o>. This module speech-enables ciel.

12.34 emacspeak-clojure

CLOJURE-mode: Specialized mode for Clojure programming.

12.35 emacspeak-cmuscheme

speech-enable scheme support

12.36 emacspeak-comint

comint == command interaction. Advice comint and friends to speak.

12.36.1 Emacspeak-Comint Commands

${\bf 12.36.1.1\ emacspeak\text{-}completion\text{-}pick\text{-}completion}$

emacspeak-completion-pick-completion

[Command]

Pick completion and return safely where we came from.

12.36.1.2 emacspeak-toggle-comint-autospeak

emacspeak-toggle-comint-autospeak (&optional prefix)

[Command]

Toggle state of Emacspeak comint autospeak.

When turned on, comint output is automatically spoken. Turn this on if you want your shell to speak its results. Interactive PREFIX arg means toggle the global default value, and then set the current local value to the result.

(fn &optional PREFIX)

12.36.1.3 emacspeak-toggle-inaudible-or-comint-autospeak

emacspeak-toggle-inaudible-or-comint-autospeak

[Command]

С-е С-q

< fn > C-q

Toggle comint-autospeak when in a comint or vterm buffer. Otherwise call voice-setup-toggle-silence-personality which toggles the personality under point.

12.36.2 emacspeak-comint Options

User Option emacspeak-comint-autospeak

[Variable]

Says if comint output is automatically spoken. You can use 'emacspeak-toggle-comint-autospeak' bound to M-x emacspeak-toggle-comint-autospeak to toggle this setting.

12.37 emacspeak-company

COMPANY -mode: Complete Anything Support for emacs.

This module provides an Emacspeak Company Front-end, And advises the needed interactive commands in Company. It adds an emacspeak-specific front-end emacspeak-company-frontend to the value of company-frontends. Note that company-frontends is a user-customizable option and ends up getting saved by emacs along with other custom settings. Function emacspeak-company-frontend handles providing spoken feedback, and leaves it to other frontends on company-frontends to generate their own feedback.

12.38 emacspeak-compile

This module makes compiling code from inside Emacs speech friendly. It is an example of how a little amount of code can make Emacspeak even better.

12.38.1 Emacspeak-Compile Commands

12.38.1.1 emacspeak-compilation-speak-error

emacspeak-compilation-speak-error

[Command]

Speech feedback about the compilation error.

12.39 emacspeak-cperl

Provide additional advice to CPerl mode

12.40 emacspeak-crossword

CROSSWORD == Solve crosswords in Emacs Use fork at https://github.com/ieure/emacs-crossword Rather than the one on melpa.

12.41 emacspeak-custom

Advise custom to speak. most of the work is actually done by emacspeak-widget.el which speech-enables the widget libraries.

12.41.1 Emacspeak-Custom Commands

12.41.1.1 emacspeak-custom-goto-group

emacspeak-custom-goto-group

[Command]

Jump to custom group when in a customization buffer.

12.41.1.2 emacspeak-custom-goto-toolbar

emacspeak-custom-goto-toolbar

[Command]

Jump to custom toolbar when in a customization buffer.

12.42 emacspeak-dbus

Loading this module sets up Emacspeak to respond to DBus notifications. This module needs to be loaded explicitly from the user's init file after emacspeak has been started.

12.42.1 Overview

12.42.2 Emacspeak-Dbus Commands

12.42.2.1 emacspeak-dbus-lock-screen

emacspeak-dbus-lock-screen

[Command]

Lock screen using DBus.

12.42.2.2 emacspeak-dbus-sleep-disable

emacspeak-dbus-sleep-disable

[Command]

Disable integration with login1 daemon. Does nothing if already disabled.

12.42.2.3 emacspeak-dbus-sleep-enable

emacspeak-dbus-sleep-enable

[Command]

Enable integration with Login1. Does nothing if already enabled.

12.42.2.4 emacspeak-dbus-udisks-disable

emacspeak-dbus-udisks-disable

[Command]

Disable integration with UDisks2 daemon. Does nothing if already disabled.

12.42.2.5 emacspeak-dbus-udisks-enable

emacspeak-dbus-udisks-enable

[Command]

Enable integration with UDisks2. Does nothing if already enabled.

12.42.2.6 emacspeak-dbus-upower-disable

emacspeak-dbus-upower-disable

[Command]

Disable integration with UPower daemon. Does nothing if already disabled.

12.42.2.7 emacspeak-dbus-upower-enable

emacspeak-dbus-upower-enable

[Command]

Enable integration with UPower. Does nothing if already enabled.

12.42.2.8 emacspeak-screen-saver-mode

emacspeak-screen-saver-mode

[Command]

A light-weight mode for the "Emacspeak Screen Saver *' buffer. This is a hidden buffer that is made current so we automatically switch to a screen-saver soundscape.

In addition to any hooks its parent mode 'special-mode' might have run, this mode runs the hook 'emacspeak-screen-saver-mode-hook', as the final or penultimate step during initialization.

key binding

12.43 emacspeak-deadgrep

DEADGREP == Front-end to ripgrep.

12.44 emacspeak-debugger

DEBUGGER == Emacs Interactive Debugger. Speech-enable the debugger by speech-enabling interactive commands.

12.45 emacspeak-desktop

advice desktop package

12.46 emacspeak-dictionary

Speech-enables emacs client for accessing dictionary server at dict.org:2628

12.47 emacspeak-diff-mode

DIFF-MODE support.

12.48 emacspeak-dired

This module speech enables dired.

12.48.1 Emacspeak-Dired Commands

12.48.1.1 emacspeak-dired-csv-open

emacspeak-dired-csv-open

[Command]

Open CSV file on current dired line.

12.48.1.2 emacspeak-dired-downloads

emacspeak-dired-downloads

[Command]

C-. d

C-'d

C-x @ s d

Open Downloads directory.

12.48.1.3 emacspeak-dired-epub-eww

emacspeak-dired-epub-eww

[Command]

Open epub on current line in EWW

12.48.1.4 emacspeak-dired-eww-open

emacspeak-dired-eww-open

[Command]

Open HTML file on current dired line.

12.48.1.5 emacspeak-dired-label-fields

emacspeak-dired-label-fields

[Command]

Labels the fields of the listing in the dired buffer.

Currently is a no-op unless

unless 'dired-listing-switches' contains -l

12.48.1.6 emacspeak-dired-md-open

emacspeak-dired-md-open

[Command]

Preview markdown file on current dired line.

12.48.1.7 emacspeak-dired-midi-play

emacspeak-dired-midi-play

[Command]

Play midi file on current dired line.

12.48.1.8 emacspeak-dired-open-this-file

emacspeak-dired-open-this-file

[Command]

Smart dired opener. Invokes appropriate Emacspeak handler on current file in DirEd.

12.48.1.9 emacspeak-dired-pdf-open

emacspeak-dired-pdf-open

[Command]

Open PDF file on current dired line.

12.48.1.10 emacspeak-dired-rpm-query-in-dired

emacspeak-dired-rpm-query-in-dired

[Command]

Run rpm -qi on current dired entry.

12.48.1.11 emacspeak-dired-show-file-type

emacspeak-dired-show-file-type (&optional file deref-symlinks)

[Command]

Displays type of current file by running command file.

Like Emacs' built-in dired-show-file-type but allows user to customize options passed to command 'file'.

(fn &optional FILE DEREF-SYMLINKS)

12.48.1.12 emacspeak-dired-speak-file-access-time

emacspeak-dired-speak-file-access-time

[Command]

Speak access time of the current file.

12.48.1.13 emacspeak-dired-speak-file-modification-time

emacspeak-dired-speak-file-modification-time

[Command]

Speak modification time of the current file.

12.48.1.14 emacspeak-dired-speak-file-permissions

emacspeak-dired-speak-file-permissions

[Command]

Speak the permissions of the current file.

12.48.1.15 emacspeak-dired-speak-file-size

emacspeak-dired-speak-file-size

[Command]

Speak the size of the current file.

On a directory line, run du -s on the directory to speak its size.

12.48.1.16 emacspeak-dired-speak-header-line

emacspeak-dired-speak-header-line

[Command]

Speak the header line of the dired buffer.

12.48.1.17 emacspeak-dired-speak-symlink-target

emacspeak-dired-speak-symlink-target

[Command]

Speaks the target of the symlink on the current line.

12.48.1.18 emacspeak-locate-play-results-as-playlist

$\begin{array}{c} \texttt{emacspeak-locate-play-results-as-playlist} \ \textbf{(\&optional} \\ shuffle) \end{array}$

[Command]

Treat locate results as a play-list.

Optional interactive prefix arg shuffles playlist.

(fn &optional SHUFFLE)

12.49 emacspeak-dismal

emacspeak-dismal: No Commentary

12.49.1 Emacspeak-Dismal Commands

12.49.1.1 emacspeak-dismal-backward-col-and-summarize

emacspeak-dismal-backward-col-and-summarize (cols)

[Command]

Move backward by arg columns (the previous column by default) and summarize it.

(fn COLS)

12.49.1.2 emacspeak-dismal-backward-row-and-summarize

emacspeak-dismal-backward-row-and-summarize (rows)

[Command]

Move backward by arg rows

(the previous row by default) and summarize it.

(fn ROWS)

12.49.1.3 emacspeak-dismal-col-summarize

emacspeak-dismal-col-summarize

[Command]

Summarizes a col using the specification in list emacspeak-dismal-col-summarizer-list

12.49.1.4 emacspeak-dismal-display-cell-expression

${\tt emacspeak-dismal-display-cell-expression}$

[Command]

Display the expression in the message area

12.49.1.5 emacspeak-dismal-display-cell-value

emacspeak-dismal-display-cell-value

[Command]

Display the cell value in the message area

12.49.1.6 emacspeak-dismal-display-cell-with-col-header

emacspeak-dismal-display-cell-with-col-header

[Command]

Display current cell along with its column header.

The 'column header' is the entry in row 0.

12.49.1.7 emacspeak-dismal-display-cell-with-row-header

emacspeak-dismal-display-cell-with-row-header

[Command]

Displays current cell along with its row header.

The 'row header' is the entry in column 0.

12.49.1.8 emacspeak-dismal-forward-col-and-summarize

emacspeak-dismal-forward-col-and-summarize (cols)

[Command]

Move forward by arg columns (the next column by default) and summarize it.

(fn COLS)

12.49.1.9 emacspeak-dismal-forward-row-and-summarize

emacspeak-dismal-forward-row-and-summarize (rows)

[Command]

Move forward by arg rows (the next row by default) and summarize it.

(fn ROWS)

12.49.1.10 emacspeak-dismal-row-summarize

emacspeak-dismal-row-summarize

[Command]

Summarizes a row using the specification in list emacspeak-dismal-row-summarizer-list

12.49.1.11 emacspeak-dismal-set-col-summarizer-list

emacspeak-dismal-set-col-summarizer-list

[Command]

Specify or reset col summarizer list.

12.49.1.12 emacspeak-dismal-set-row-summarizer-list

emacspeak-dismal-set-row-summarizer-list

[Command]

Specify or reset row summarizer list.

12.49.1.13 emacspeak-dismal-set-sheet-summarizer-list

emacspeak-dismal-set-sheet-summarizer-list

[Command]

Specify or reset sheet summarizer list.

12.49.1.14 emacspeak-dismal-sheet-summarize

emacspeak-dismal-sheet-summarize

[Command]

Summarizes a sheet using the specification in list emacspeak-dismal-sheet-summarizer-list

12.50 emacspeak-dumb-jump

DUMB-JUMP == Jump to imputed cross-references in source code. This module speechenables dumb-jump

12.51 emacspeak-ecb

The ECB is an Emacs Class Browser. This module speech-enables ECB

12.51.1 Emacspeak-Ecb Commands

12.51.1.1 emacspeak-ecb-speak-window-directories

emacspeak-ecb-speak-window-directories Speak contents of directories window. [Command]

12.51.1.2 emacspeak-ecb-speak-window-history

emacspeak-ecb-speak-window-history Speak contents of history window. [Command]

12.51.1.3 emacspeak-ecb-speak-window-methods

emacspeak-ecb-speak-window-methods

[Command]

Speak contents of methods window.

12.51.1.4 emacspeak-ecb-speak-window-sources

emacspeak-ecb-speak-window-sources Speak contents of sources window. [Command]

12.51.1.5 emacspeak-ecb-tree-backspace

emacspeak-ecb-tree-backspace

[Command]

Back up during incremental search in tree buffers.

12.51.1.6 emacspeak-ecb-tree-clear

emacspeak-ecb-tree-clear

[Command]

Clear search pattern during incremental search in tree buffers.

12.52 emacspeak-eclim

ECLIM == Eclipse/Vim integration. http://www.eclim.org turns Eclipse into a headless server that can be called from other programs. Package Emacs-Eclim connects Emacs to Eclim. Package emacspeak-eclim speech-enables emacs-eclim.

12.53 emacspeak-ediff

Ediff provides a nice visual interface to diff. ;;;Comparing and patching files is easy with ediff when you can see the screen. This module provides Emacspeak extensions to work fluently with ediff. Try it out, it's an excellent example of why Emacspeak is better than a traditional screenreader. This module was originally written to interface to the old ediff.el bundled with GNU Emacs 19.28 and earlier. It has been updated to work with the newer and much larger ediff system found in Emacs 19.29 and later.

When using under modern versions of Emacs, I recommend setting (setq ediff-window-setup-function 'ediff-setup-windows-plain) so that Emacs always displays Ediff windows in a single frame.

12.53.1 Emacspeak-Ediff Commands

12.53.1.1 emacspeak-ediff-speak-current-difference

emacspeak-ediff-speak-current-difference

[Command]

Speak the current difference

12.54 emacspeak-eglot

EGLOT == LSP Support for emacs

12.55 emacspeak-ein

EIN = Emacs IPython Notebook You can install package EIN via mELPA This module speech-enables EIN

12.55.1 Emacspeak-Ein Commands

12.55.1.1 emacspeak-ein-speak-current-cell

emacspeak-ein-speak-current-cell Speak current cell. [Command]

12.56 emacspeak-elfeed

ELFEED == Feed Reader for Emacs. Install from elpa M-x package-install elfeed

12.56.1 Emacspeak-Elfeed Commands

12.56.1.1 emacspeak-elfeed-eww-entry-at-point

emacspeak-elfeed-eww-entry-at-point Display current article in EWW.

[Command]

12.56.1.2 emacspeak-elfeed-filter-entry-at-point

emacspeak-elfeed-filter-entry-at-point

[Command]

Display current article after filtering.

12.56.1.3 emacspeak-elfeed-next-entry

emacspeak-elfeed-next-entry

[Command]

Move to next entry and speak it.

12.56.1.4 emacspeak-elfeed-previous-entry

emacspeak-elfeed-previous-entry

[Command]

Move to previous entry and speak it.

12.56.1.5 emacspeak-elfeed-speak-entry-at-point

emacspeak-elfeed-speak-entry-at-point Speak entry at point.

[Command]

12.57 emacspeak-elisp-refs

Speech-enable package elisp-refs. ELISP-REFS ==

12.58 emacspeak-elpher

ELPHER == gopher/gemini client Let's see if we can rescue the Content-Oriented Web

12.59 emacspeak-elpy

ELPY == Emacs Lisp Python IDE Speech-enables all aspects of elpy.

12.60 emacspeak-elscreen

ELSCREEN == Emacs Window Session Manager Speech-enable interactive commands.

12.61 emacspeak-emms

Speech-enables EMMS — the Emacs equivalent of XMMS available from the Emacs package archive. http://savannah.gnu.org/project/emms EMMS is under active development, to get the current CVS version, use Emacspeak command M-x emacspeak-cvs-gnu-get-project-snapshot RET emms RET

12.61.1 Emacspeak-Emms Commands

12.61.1.1 emacspeak-emms-speak-current-track

emacspeak-emms-speak-current-track Speak current track.

[Command]

12.62 emacspeak-enriched

emacspeak extensions to voiceify rich text.

12.62.1 Emacspeak-Enriched Commands

12.62.1.1 emacspeak-enriched-voiceify-faces

emacspeak-enriched-voiceify-faces (start end)

[Command]

Map base fonts to voices.

Useful in voiceifying rich text.

(fn START END)

12.63 emacspeak-entertain

Auditory interface to misc games

12.63.1 Emacspeak-Entertain Commands

12.63.1.1 emacspeak-hangman-speak-guess

${\tt emacspeak-hangman-speak-guess}$

[Command]

Speak current guessed string.

12.63.1.2 emacspeak-hangman-speak-statistics

emacspeak-hangman-speak-statistics

[Command]

Speak statistics.

12.64 emacspeak-epa

EPA == EasyPG Assistant Integrate GPG functionality into Emacs. Speech-enable all interactive commands.

12.65 emacspeak-eperiodic

eperiodic produces an interactive periodic table of elements and can be found at http://vegemite.chem.nottingham.ac.uk/~matt/emacs/eperiodic.el

12.65.1 Emacspeak-Eperiodic Commands

12.65.1.1 emacspeak-eperiodic-goto-property-section

${\tt emacspeak-eperiodic-goto-property-section}$

[Command]

Mark position and jump to properties section.

12.65.1.2 emacspeak-eperiodic-next-line

${\tt emacspeak-eperiodic-next-line}$

[Command]

Move to next row and speak element.

12.65.1.3 emacspeak-eperiodic-play-description

emacspeak-eperiodic-play-description

[Command]

Play audio description from WebElements.

12.65.1.4 emacspeak-eperiodic-previous-line

emacspeak-eperiodic-previous-line

[Command]

Move to next row and speak element.

12.65.1.5 emacspeak-eperiodic-speak-current-element

emacspeak-eperiodic-speak-current-element Speak element at point.

[Command]

12.66 emacspeak-epub

12.66.1 Introduction

This module implements the Emacspeak EPub Bookshelf — a unified interface for organizing, locating and reading EPub EBooks on the emacspeak Audio Desktop. The epub reader is built using the Emacs Web Browser (EWW), and all of emacspeak's EWW conveniences are available when reading EBooks — see See Section 12.74 [emacspeak-eww], page 100, for useful tools including bookmarking and structured navigation. For now it supports epub2 — it will support epub3 some time in the future.

The main entry point is command emacspeak-epub bound to *C-e g*. This command opens a new bookshelf buffer unless the user has previously opened a specific bookshelf. A *bookshelf* is a buffer that lists books placed on a given bookshelf — these are listed by *title* and *author*. The bookshelf buffer is in a special mode that provides single-key commands for adding, removing and finding books, as well as for opening the selected book using Emacs' built-in Web browser (eww).

The next few sections give a high-level overview of the emacspeak Bookshelf and EPub interaction, followed by detailed documentation on the various commands and user options.

12.66.2 Organizing EBooks On The Emacspeak Desktop

In the simplest case, EBooks can be placed under a specific directory (with sub-directories as needed). Customize user option emacspeak-epub-library-directory to point to this location. Here is a quick summary of commands for

12.66.3 Emacspeak-Epub Commands

12.66.3.1 emacspeak-calibre-mode

emacspeak-calibre-mode

[Command]

Letters do not insert themselves; instead, they are commands.

key binding

A Calibre Front-end.

RET emacspeak-epub-calibre-dired-at-point

In addition to any hooks its parent mode 'special-mode' might have

run, this mode runs the hook 'emacspeak-calibre-mode-hook', as the final or penultimate step during initialization.

12.66.3.2 emacspeak-epub

emacspeak-epub

[Command]

С-е д

<fn> g

EPub Interaction.

When opened, displays a bookshelf consisting of epubs found at the root directory,see M-x emacspeak-epub-mode

12.66.3.3 emacspeak-epub-bookshelf-add-directory

[Command]

Add EPubs found in specified directory to the bookshelf. Interactive prefix arg searches recursively in directory.

(fn DIRECTORY & optional RECURSIVE)

12.66.3.4 emacspeak-epub-bookshelf-add-epub

 $\verb|emacspeak-epub-bookshelf-add-epub| (epub-file)$

[Command]

Add epub file to current bookshelf.

(fn EPUB-FILE)

12.66.3.5 emacspeak-epub-bookshelf-calibre-author

emacspeak-epub-bookshelf-calibre-author (pattern)

Add results of an author search to current bookshelf.

[Command]

(fn PATTERN)

12.66.3.6 emacspeak-epub-bookshelf-calibre-search

emacspeak-epub-bookshelf-calibre-search (pattern)

[Command]

Add results of an title/author search to current bookshelf.

(fn PATTERN)

12.66.3.7 emacspeak-epub-bookshelf-calibre-title

emacspeak-epub-bookshelf-calibre-title (pattern)

[Command]

Add results of an title search to current bookshelf.

(fn PATTERN)

12.66.3.8 emacspeak-epub-bookshelf-clear

emacspeak-epub-bookshelf-clear

Clear all books from bookshelf.

[Command]

12.66.3.9 emacspeak-epub-bookshelf-load

emacspeak-epub-bookshelf-load

Load bookshelf metadata from disk.

[Command]

12.66.3.10 emacspeak-epub-bookshelf-open

emacspeak-epub-bookshelf-open (bookshelf)

Load bookshelf metadata from specified bookshelf.

[Command]

(fn BOOKSHELF)

12.66.3.11 emacspeak-epub-bookshelf-open-epub

emacspeak-epub-bookshelf-open-epub (epub-file)

Open epub file and add it to current bookshelf.

[Command]

(fn EPUB-FILE)

12.66.3.12 emacspeak-epub-bookshelf-redraw

emacspeak-epub-bookshelf-redraw (&optional author-first)

Redraw Bookshelf.

Optional interactive prefix arg author-first prints author at the left.

[Command]

(fn &optional AUTHOR-FIRST)

12.66.3.13 emacspeak-epub-bookshelf-refresh

emacspeak-epub-bookshelf-refresh

Refresh and redraw bookshelf.

[Command]

[Command]

12.66.3.14 emacspeak-epub-bookshelf-remove-directory

emacspeak-epub-bookshelf-remove-directory (directory &optional recursive)

Remove EPubs found in specified directory from the bookshelf.

Interactive prefix arg searches recursively in directory.

(fn DIRECTORY & optional RECURSIVE)

12.66.3.15 emacspeak-epub-bookshelf-remove-this-book

emacspeak-epub-bookshelf-remove-this-book

Remove the book on current line from this bookshelf.

No book files are deleted.

[Command]

12.66.3.16 emacspeak-epub-bookshelf-rename

emacspeak-epub-bookshelf-rename (name &optional overwrite)

[Command]

Saves current bookshelf to specified name.

Interactive prefix arg 'overwrite' will overwrite existing file.

(fn NAME & optional OVERWRITE)

12.66.3.17 emacspeak-epub-bookshelf-save

emacspeak-epub-bookshelf-save

[Command]

Save bookshelf metadata.

12.66.3.18 emacspeak-epub-browse-files

emacspeak-epub-browse-files (epub)

[Command]

Browse list of HTML files in EPub.

Useful if table of contents in toc.ncx is empty.

(fn EPUB)

12.66.3.19 emacspeak-epub-calibre-dired-at-point

emacspeak-epub-calibre-dired-at-point

[Command]

Open directory containing current result.

12.66.3.20 emacspeak-epub-calibre-results

emacspeak-epub-calibre-results

[Command]

Show most recent Calibre search results.

12.66.3.21 emacspeak-epub-delete

emacspeak-epub-delete

[Command]

Delete EPub under point.

12.66.3.22 emacspeak-epub-eww

emacspeak-epub-eww (epub-file &optional broken-ncx)

[Command]

Display entire book using EWW from EPub.

Uses content listed in toc.ncx or equivalent by default.

Interactive prefix arg broken-ncx asks to use the sorted list of html files in the epub file instead.

(fn EPUB-FILE & optional BROKEN-NCX)

12.66.3.23 emacspeak-epub-google

emacspeak-epub-google (query)

[Command]

Search for Epubs from Google Books.

(fn QUERY)

12.66.3.24 emacspeak-epub-gutenberg-catalog

emacspeak-epub-gutenberg-catalog (&optional refresh)

[Command]

Open Gutenberg catalog.

Fetch if needed, or if refresh is T.

(fn &optional REFRESH)

12.66.3.25 emacspeak-epub-gutenberg-download

emacspeak-epub-gutenberg-download (book-id &optional download)

[Command]

Open web page for specified book.

Place download url for epub in kill ring.

With interactive prefix arg 'download', download the epub.

(fn BOOK-ID & optional DOWNLOAD)

12.66.3.26 emacspeak-epub-locate-epubs

emacspeak-epub-locate-epubs (pattern)

[Command]

Locate epub files using locate.

(fn PATTERN)

12.66.3.27 emacspeak-epub-mode

emacspeak-epub-mode

[Command]

An EPub Front-end.

Letters do not insert themselves; instead, they are commands.

key binding

C-a emacspeak-epub-bookshelf-add-directory

C-d emacspeak-epub-bookshelf-remove-directory

C-l emacspeak-epub-bookshelf-redraw

RET emacspeak-epub-eww

C-o emacspeak-epub-bookshelf-open-epub

C-x Prefix Command

ESC Prefix Command

/ emacspeak-epub-calibre-results

A emacspeak-epub-bookshelf-calibre-author

C emacspeak-epub-gutenberg-catalog

G emacspeak-epub-google

O emacspeak-epub-open-with-nov

S emacspeak-epub-bookshelf-calibre-search

T emacspeak-epub-bookshelf-calibre-title

a emacspeak-epub-bookshelf-add-epub

b emacspeak-epub-bookshelf-open

c emacspeak-epub-bookshelf-clear

d emacspeak-epub-bookshelf-remove-this-book

e emacspeak-epub-eww

f emacspeak-epub-browse-files

g emacspeak-epub-gutenberg-download

l emacspeak-epub-locate-epubs

n next-line

o emacspeak-epub-open

p previous-line

r emacspeak-epub-bookshelf-rename

M-s emacspeak-epub-bookshelf-save

C-x C-q emacspeak-epub-bookshelf-refresh

C-x C-s emacspeak-epub-bookshelf-save

In addition to any hooks its parent mode 'special-mode' might have run, this mode runs the hook 'emacspeak-epub-mode-hook', as the final or penultimate step during initialization.

12.66.3.28 emacspeak-epub-next

emacspeak-epub-next

[Command]

Move to next book.

12.66.3.29 emacspeak-epub-open

emacspeak-epub-open (epub-file)

[Command]

Open specified Epub.

Filename may need to be shell-quoted when called from Lisp.

(fn EPUB-FILE)

12.66.3.30 emacspeak-epub-open-with-nov

emacspeak-epub-open-with-nov

[Command]

Open ebook at point in nov-mode.

12.66.3.31 emacspeak-epub-previous

emacspeak-epub-previous

[Command]

Move to previous book.

12.66.3.32 emacspeak-epub-url-executor

emacspeak-epub-url-executor (url)

[Command]

Custom URL executor for use in EPub Mode.

(fn URL)

12.66.4 emacspeak-epub Options

User Option emacspeak-epub-bookshelf-directory
Directory where we keep .bsf files defining various bookshelves.

[Variable]

User Option emacspeak-epub-calibre-root-dir

[Variable]

Root of Calibre library.

[Variable]

User Option emacspeak-epub-gutenberg-mirror Base URL for Gutenberg mirror.

User Option emacspeak-epub-gutenberg-suffix Suffix of book type we retrieve.

[Variable]

User Option emacspeak-epub-library-directory Directory under which we store Epubs.

[Variable]

12.67 emacspeak-erc

erc.el is a modern Emacs client for IRC including color and font locking support. erc.el - an Emacs IRC client (by Alexander L. Belikoff) http://www.cs.cmu.edu/~berez/irc/erc.el

12.67.1 Emacspeak-Erc Commands

12.67.1.1 emacspeak-erc-add-name-to-monitor

${\tt emacspeak-erc-add-name-to-monitor}~(name~ \& optional$

[Command]

quiten-pronunciation)

Add people to monitor in this room.

Optional interactive prefix arg defines a pronunciation that silences speaking of this perso's name.

(fn NAME & ptional QUITEN-PRONUNCIATION)

12.67.1.2 emacspeak-erc-delete-name-from-monitor

${\tt emacspeak-erc-delete-name-from-monitor}~(name)$

[Command]

Remove name to monitor in this room.

(fn NAME)

12.67.1.3 emacspeak-erc-setup-cricket-rules

${\tt emacspeak-erc-setup-cricket-rules}$

[Command]

Set up #cricket channels.

12.67.1.4 emacspeak-erc-toggle-my-monitor

emacspeak-erc-toggle-my-monitor (&optional prefix)

[Command]

Toggle state of ERC monitor of my messages.

Interactive PREFIX arg means toggle the global default value, and then set the current local value to the result.

12.67.1.5 emacspeak-erc-toggle-room-monitor

emacspeak-erc-toggle-room-monitor (&optional prefix)

[Command]

Toggle state of ERC room monitor.

Interactive

PREFIX arg means toggle the global default value, and then set the current local value to the result.

12.67.1.6 emacspeak-erc-toggle-speak-all-participants

emacspeak-erc-toggle-speak-all-participants (&optional

[Command]

prefix)

Toggle state of ERC speak all participants..

Interactive

PREFIX arg means toggle the global default value, and then set the current local value to the result.

12.67.2 emacspeak-erc Options

User Option emacspeak-erc-ignore-notices

[Variable]

Set to T if you dont want to see notification messages from the server.

${\tt User \ Option} \ emacspeak\text{-}erc\text{-}my\text{-}nick$

[Variable]

My IRC nick.

 ${\tt User \ Option} \ emacspeak-erc\text{-}speak\text{-}all\text{-}participants$

[Variable]

Speak all things said if t.

12.68 emacspeak-eshell

EShell is a shell implemented entirely in Emacs Lisp. It is part of emacs 21 –and can also be used under Emacs 20. This module speech-enables EShell

12.69 emacspeak-ess

ESS == Emacs Speaks Statistics This module makes ESS speak.

12.70 emacspeak-etable

table.el provides rich table editing for emacs. this module speech-enables table.el

12.70.1 Emacspeak-Etable Commands

12.70.1.1 emacspeak-etable-speak-cell

${\tt emacspeak-etable-speak-cell}$

[Command]

Speak current cell.

12.71 emacspeak-eterm

This module makes eterm talk. Eterm is the new terminal emulator for Emacs. Use of emacspeak with eterm really needs an info page. At present, the only documentation is the source level documentation. This module uses Control-t as an additional prefix key to allow the user To move around the terminal and have different parts spoken.

12.71.1 Emacspeak-Eterm Commands

12.71.1.1 emacspeak-eterm-copy-region-to-register

emacspeak-eterm-copy-region-to-register (register)

[Command]

Copy text from terminal to an Emacs REGISTER.

This copies region delimited by the emacspeak eterm marker set by command M-x emacspeak-eterm-set-marker and the emacspeak eterm pointer to a register.

(fn REGISTER)

12.71.1.2 emacspeak-eterm-define-window

emacspeak-eterm-define-window (id)

[Command]

Prompt for a window ID.

The window is then define to be

the rectangle delimited by point and eterm mark. This is to be used when emacspeak is set to review mode inside an eterm.

(fn ID)

12.71.1.3 emacspeak-eterm-describe-window

emacspeak-eterm-describe-window (id)

[Command]

Describe an eterm window.

Description indicates eterm window coordinates and whether it is stretchable

(fn ID)

12.71.1.4 emacspeak-eterm-goto-line

emacspeak-eterm-goto-line (line)

[Command]

Move emacspeak eterm pointer to a specified LINE.

(fn LINE)

12.71.1.5 emacspeak-eterm-kill-ring-save-region

emacspeak-eterm-kill-ring-save-region

[Command]

Copy text from terminal to kill ring.

This copies region delimited by the emacspeak eterm marker

set by command M-x emacspeak-eterm-set-marker and the emacspeak eterm pointer.

12.71.1.6 emacspeak-eterm-maybe-send-raw

emacspeak-eterm-maybe-send-raw

Send a raw character through if in the terminal buffer.

Execute end of line if

in a non eterm buffer if executed via C-e C-e

12.71.1.7 emacspeak-eterm-paste-register

emacspeak-eterm-paste-register (register)

Paste contents of REGISTER at current location. If the specified register contains text, then that text is sent to the terminal as if it were typed by the user.

(fn REGISTER)

12.71.1.8 emacspeak-eterm-pointer-backward-word

emacspeak-eterm-pointer-backward-word (count)

Move the pointer backward by words.

Interactive numeric prefix arg specifies number of words to move.

Argument COUNT specifies number of words by which to move.

(fn COUNT)

12.71.1.9 emacspeak-eterm-pointer-down

emacspeak-eterm-pointer-down (count)

Move the pointer down a line.

Argument COUNT specifies number of lines by which to move.

(fn COUNT)

12.71.1.10 emacspeak-eterm-pointer-forward-word

emacspeak-eterm-pointer-forward-word (count)

Move the pointer forward by words.

Interactive numeric prefix arg specifies number of words to move.

Argument COUNT specifies number of words by which to move.

(fn COUNT)

12.71.1.11 emacspeak-eterm-pointer-left

emacspeak-eterm-pointer-left (count)

Move the pointer left.

[Command]

[Command]

[Command]

[Command]

[Command]

[Command]

Argument COUNT specifies number of columns by which to move.

(fn COUNT)

12.71.1.12 emacspeak-eterm-pointer-right

emacspeak-eterm-pointer-right (count)

[Command]

Move the pointer right.

Argument COUNT specifies number of columns by which to move.

(fn COUNT)

12.71.1.13 emacspeak-eterm-pointer-to-bottom

emacspeak-eterm-pointer-to-bottom

[Command]

Move the pointer to the bottom of the screen.

12.71.1.14 emacspeak-eterm-pointer-to-cursor

emacspeak-eterm-pointer-to-cursor

[Command]

Move the pointer to the cursor.

12.71.1.15 emacspeak-eterm-pointer-to-left-edge

emacspeak-eterm-pointer-to-left-edge

[Command]

Move the pointer to the right edge.

12.71.1.16 emacspeak-eterm-pointer-to-next-color-change

emacspeak-eterm-pointer-to-next-color-change (&optional count)

[Command]

Move the eterm pointer to the next color change.

This allows you to move between highlighted regions of the screen.

Optional argument COUNT specifies how many changes to skip.

(fn &optional COUNT)

12.71.1.17 emacspeak-eterm-pointer-to-previous-color-change

[Command]

Move the eterm pointer to the next color change.

This allows you to move between highlighted regions of the screen.

Optional argument COUNT specifies how many changes to skip.

(fn &optional COUNT)

12.71.1.18 emacspeak-eterm-pointer-to-right-edge

emacspeak-eterm-pointer-to-right-edge

[Command]

Move the pointer to the right edge.

12.71.1.19 emacspeak-eterm-pointer-to-top

emacspeak-eterm-pointer-to-top

[Command]

Move the pointer to the top of the screen.

12.71.1.20 emacspeak-eterm-pointer-up

emacspeak-eterm-pointer-up (count)

[Command]

Move the pointer up a line.

Argument COUNT .specifies number of lines by which to move.

(fn COUNT)

12.71.1.21 emacspeak-eterm-search-backward

emacspeak-eterm-search-backward

[Command]

Search backward on the terminal.

12.71.1.22 emacspeak-eterm-search-forward

emacspeak-eterm-search-forward

[Command]

Search forward on the terminal.

12.71.1.23 emacspeak-eterm-set-filter-window

emacspeak-eterm-set-filter-window (flag)

[Command]

Prompt for the id of a predefined window,

and set the 'filter' window to it.

Non-nil interactive prefix arg 'unsets' the filter window;

this is equivalent to having the entire terminal as the filter window (this is what eterm starts up with).

Setting the filter window results in emacspeak only monitoring screen activity within the filter window.

(fn FLAG)

12.71.1.24 emacspeak-eterm-set-focus-window

emacspeak-eterm-set-focus-window (flag)

[Command]

Prompt for the id of a predefined window,

and set the 'focus' window to it.

Non-nil interactive prefix arg 'unsets' the focus window;

this is equivalent to having the entire terminal as the focus window (this is what eterm starts up with).

Setting the focus window results in emacspeak monitoring screen and speaking that window upon seeing screen activity.

(fn FLAG)

12.71.1.25 emacspeak-eterm-set-marker

emacspeak-eterm-set-marker

[Command]

Set Emacspeak eterm marker.

This sets the emacspeak eterm marker to the position pointed to by the emacspeak eterm pointer.

12.71.1.26 emacspeak-eterm-speak-cursor

emacspeak-eterm-speak-cursor

[Command]

Speak cursor position.

12.71.1.27 emacspeak-eterm-speak-pointer

emacspeak-eterm-speak-pointer

[Command]

Speak current pointer position.

12.71.1.28 emacspeak-eterm-speak-pointer-char

emacspeak-eterm-speak-pointer-char (&optional prefix)

[Command]

Speak char under eterm pointer.

Pronounces character phonetically unless called with a PREFIX arg.

(fn &optional PREFIX)

12.71.1.29 emacspeak-eterm-speak-pointer-line

emacspeak-eterm-speak-pointer-line

[Command]

Speak the line the pointer is on.

12.71.1.30 emacspeak-eterm-speak-pointer-word

emacspeak-eterm-speak-pointer-word

[Command]

Speak the word the pointer is on.

12.71.1.31 emacspeak-eterm-speak-predefined-window

emacspeak-eterm-speak-predefined-window

[Command]

Speak a predefined eterm window between 1 and 10.

12.71.1.32 emacspeak-eterm-speak-screen

emacspeak-eterm-speak-screen (&optional flag)

[Command]

Speak the screen. Default is to speak from the emacspeak pointer to point.

Optional prefix arg FLAG causes region above

the Emacspeak pointer to be spoken.

(fn &optional FLAG)

12.71.1.33 emacspeak-eterm-speak-window

emacspeak-eterm-speak-window (id)

[Command]

Speak an eterm window.

Argument ID specifies the window.

(fn ID)

12.71.1.34 emacspeak-eterm-toggle-filter-window

emacspeak-eterm-toggle-filter-window

[Command]

Toggle active state of filter window.

12.71.1.35 emacspeak-eterm-toggle-focus-window

emacspeak-eterm-toggle-focus-window

[Command]

Toggle active state of focus window.

12.71.1.36 emacspeak-eterm-toggle-pointer-mode

emacspeak-eterm-toggle-pointer-mode (&optional prefix)

[Command]

Toggle emacspeak eterm pointer mode.

With optional interactive prefix arg, turn it on.

When emacspeak eterm is in pointer mode, the eterm read pointer stays where it is rather than automatically moving to the terminal cursor when there is terminal activity.

12.71.1.37 emacspeak-eterm-toggle-review

emacspeak-eterm-toggle-review

[Command]

Toggle state of eterm review.

In review mode, you can move around the terminal and listen to the contents without sending input to the terminal itself.

12.71.1.38 emacspeak-eterm-yank-window

emacspeak-eterm-yank-window (id)

[Command]

Yank contents of an eterm window at point.

(fn ID)

12.71.1.39 emacspeak-toggle-eterm-autospeak

emacspeak-toggle-eterm-autospeak (&optional prefix)

[Command]

Toggle state of eterm autospeak.

When eterm autospeak is turned on and the terminal is in line mode,

all output to the terminal is automatically spoken.

Interactive prefix arg means toggle the global default value, and then set the current local value to the result.

12.72 emacspeak-eudc

EUDC –Emacs Universal Directory Client provides a unified interface to directory servers e.g. ldap servers this module speech enables eudc

12.72.1 Emacspeak-Eudc Commands

12.72.1.1 emacspeak-eudc-send-mail

emacspeak-eudc-send-mail

[Command]

Send email to the address given by the current record.

12.73 emacspeak-evil

EVIL == VIM In Emacs This is work-in-progress and is not complete.

12.73.1 Emacspeak-Evil Commands

12.73.1.1 emacspeak-evil-toggle-evil

```
emacspeak-evil-toggle-evil
```

[Command]

Interactively toggle evil-mode.

12.74 emacspeak-eww

EWW == Emacs Web Browser

M-4

EWW is a light-weight Web browser built into Emacs starting with Emacs-24.4 . This module speech-enables EWW.

It implements additional interactive commands for navigating the DOM. It also provides a set of filters for interactively filtering the DOM by various attributes such as id, class and role. Finally, this module updates EWW's built-in key-bindings with Emacspeak conveniences.

12.74.1 Structured Navigation

These commands move through section headers as defined in HTML.

emacspeak-eww-next-h1 Move to next H1 heading.

emacspeak-eww-next-h2 Move to next H2 heading.

emacspeak-eww-next-h3 Move to next H3 heading.

emacspeak-eww-next-h4 Move to next H4 heading.

emacspeak-eww-next-h Move to next heading. (H1...H4).

M-1 emacspeak-eww-previous-h1 Move to previous H1 heading.

M-2 emacspeak-eww-previous-h2 Move to previous H2 heading.

M-3 emacspeak-eww-previous-h3 Move to previous H3 heading.

emacspeak-eww-previous-h4 Move to previous H4 heading.

, emacspeak-eww-previous-h Move to previous heading (H1...H4).

This next set of DOM commands enable navigating by HTML elements.

- M-SPC emacspeak-eww-speak-this-element Speak contents of current element.
- J emacspeak-eww-next-element-like-this Jump to next element that is the same as the one under point. If there are multiple HTML elements under point, prompts for element-name using completion.
- K emacspeak-eww-previous-element-like-this Jump to previous element that is the same as the one under point. If there are multiple HTML elements under point, prompts for element-name using completion.
- N emacspeak-eww-next-element-from-history Jump to next element based on previous J/K command history.
- P emacspeak-eww-previous-element-from-history Jump to previous element based on previous J/K history.
- O emacspeak-eww-previous-li Jump to previous list item.
- o emacspeak-eww-next-li Jump to next list item.
- T emacspeak-eww-previous-table Jump to previous table in page.
- t emacspeak-eww-next-table Jump to next table.
- [emacspeak-eww-previous-p Jump to previous paragraph.
-] emacspeak-eww-next-p Jump to next paragraph.
- b shr-previous-link Jump to previous link.
- f shr-next-link Jump to next link.
- n emacspeak-eww-next-element Jump to next element.
- p emacspeak-eww-previous-element Jump to previous element.
- s eww-readable Use EWW's built-in readable tool.
- : emacspeak-eww-tags-at-point Display currently active HTML tags at point.

12.74.2 Filtering Content Using The DOM

These commands use EWW's HTML DOM to display different filtered views of the Web page. With an interactive prefix argument, these commands prompt for a list of filters. Command emacspeak-eww-restore bound to DEL can be used to restore the previous view.

- A eww-view-dom-having-attribute Display DOM nodes having specified attribute. Valid attributes are available via completion.
- C eww-view-dom-having-class Display DOM nodes having specified class. Valid classes are available via completion.
- E eww-view-dom-having-elements Display specified elements from the Dom. Valid element names are available via completion.
- I eww-view-dom-having-id Display DOM nodes having specified ID. Valid id values are available via completion.

- R eww-view-dom-having-role Display DOM nodes having specified role. Valid roles are available via completion.
- M-a eww-view-dom-not-having-attribute Filter out DOM nodes having specified attribute. Valid attribute values are available via completion.
- M-c eww-view-dom-not-having-class Filter out DOM nodes having specified class. Valid class values are available via completion.
- M-e eww-view-dom-not-having-elements Filter out specified element DOM nodes. Valid element names are available via completion.
- M-i eww-view-dom-not-having-id Dfilter out Display DOM nodes having specified ID. Valid id values are available via completion.
- M-r eww-view-dom-not-having-role Filter out DOM nodes having specified role. Valid role values are available via completion.

12.74.3 Diving Into (Focusing) On Specific Content

Contrast this with filtering described in the previous section. There, we discussed commands that filter the DOM to render specific types of elements. For HTML as spoken on the Web, there is a separate use-case that is helpful as a dual to filtering, namely, displaying a specific portion of a page, typically the contents of a div element. These elements often appear many times on a page, and can be deeply nested, making it difficult to focus on the relevant content on the page, e.g. news sites. Commands emacspeak-eww-dive-into-div help in such cases, C-d renders the div containing point in a separate buffer As with the filtering commands, 1 returns to the buffer where these commands were executed. Long-term users of Emacspeak who still remember Emacs-W3 will recognize this as the focus command implemented by Emacspeak for W3.

12.74.4 Updated Commands For Following Links

These key-bindings are available when point is on a link. They enable context-specific actions for following links, e.g., to play media streams, or to open various feed-types such as ATOM, RSS, or OPML.

- k shr-copy-url Copy URL under point to the kill-ring.
- ; emacspeak-eww-play-media-at-point Play media URL under point using emacs-m-player.
- U emacspeak-eww-curl-play-media-at-point Play media url under point by first downloading the URL using CURL. This is useful for sites that do multiple redirects before returning the actual media stream URL.
- C-o emacspeak-feeds-opml-display Display link under point as an OPML feed.
- C-r emacspeak-feeds-rss-display Display link under point as an RSS feed.
- C-a emacspeak-feeds-atom-display Display link under point as an ATOM feed.
- y emacspeak-m-player-youtube-player Play link under point as a Youtube stream.

12.74.5 Table Browsing

12.74.6 Emacspeak-Eww Commands

12.74.6.1 emacspeak-eww-add-mark

emacspeak-eww-add-mark (name)

[Command]

Interactively add a mark with name title+'name' at current position.

(fn NAME)

12.74.6.2 emacspeak-eww-curl-play-media-at-point

emacspeak-eww-curl-play-media-at-point

[Command]

Use Curl to pull a URL, then pass

the first line to MPlayer as a playlist.

Useful in handling double-redirect from TuneIn.

12.74.6.3 emacspeak-eww-delete-mark

emacspeak-eww-delete-mark (name)

[Command]

Interactively delete a mark with name 'name' at current position.

(fn NAME)

12.74.6.4 emacspeak-eww-dive-into-div

emacspeak-eww-dive-into-div

[Command]

Focus on current div by rendering it in a new buffer.

12.74.6.5 emacspeak-eww-fillin-form-field

emacspeak-eww-fillin-form-field

[Command]

Fill in user or passwd field using auth-source backend.

12.74.6.6 emacspeak-eww-google-knowledge-card

emacspeak-eww-google-knowledge-card

[Command]

Show just the knowledge card.

Warning, this is fragile, and depends on a stable id/class for the knowledge card.

12.74.6.7 emacspeak-eww-links-rel

emacspeak-eww-links-rel

[Command]

Display Link tags of type rel. Web pages for which alternate links are available are cued by an auditory icon on the header line.

12.74.6.8 emacspeak-eww-marks-load

emacspeak-eww-marks-load

[Command]

Load saved marks.

12.74.6.9 emacspeak-eww-marks-save

emacspeak-eww-marks-save

[Command]

Save Emacspeak EWW marks.

12.74.6.10 emacspeak-eww-masquerade

emacspeak-eww-masquerade

[Command]

Toggle masquerade state.

12.74.6.11 emacspeak-eww-next-dd

emacspeak-eww-next-dd (&optional speak)

[Command]

Move forward to the next dd.

Optional interactive prefix arg speaks the dd.

The dd is automatically spoken if there is no user activity.

12.74.6.12 emacspeak-eww-next-dl

emacspeak-eww-next-dl (&optional speak)

[Command]

Move forward to the next dl.

Optional interactive prefix arg speaks the dl.

The dl is automatically spoken if there is no user activity.

12.74.6.13 emacspeak-eww-next-dt

emacspeak-eww-next-dt (&optional speak)

[Command]

Move forward to the next dt.

Optional interactive prefix arg speaks the dt.

The dt is automatically spoken if there is no user activity.

12.74.6.14 emacspeak-eww-next-element

emacspeak-eww-next-element (el)

[Command]

Move forward to the next specified element.

(fn EL)

12.74.6.15 emacspeak-eww-next-element-from-history

emacspeak-eww-next-element-from-history

[Command]

Uses element navigation history to decide where we jump.

12.74.6.16 emacspeak-eww-next-element-like-this

emacspeak-eww-next-element-like-this (element)

[Command]

Moves to next element like current.

Prompts if content at point is enclosed by multiple elements.

(fn ELEMENT)

12.74.6.17 emacspeak-eww-next-h

emacspeak-eww-next-h (&optional speak)

[Command]

Move forward to the next h.

Optional interactive prefix arg speaks the h.

The h is automatically spoken if there is no user activity.

12.74.6.18 emacspeak-eww-next-h1

emacspeak-eww-next-h1 (&optional speak)

[Command]

Move forward to the next h1.

Optional interactive prefix arg speaks the h1.

The h1 is automatically spoken if there is no user activity.

12.74.6.19 emacspeak-eww-next-h2

emacspeak-eww-next-h2 (&optional speak)

[Command]

Move forward to the next h2.

Optional interactive prefix arg speaks the h2.

The h2 is automatically spoken if there is no user activity.

12.74.6.20 emacspeak-eww-next-h3

emacspeak-eww-next-h3 (&optional speak)

[Command]

Move forward to the next h3.

Optional interactive prefix arg speaks the h3.

The h3 is automatically spoken if there is no user activity.

12.74.6.21 emacspeak-eww-next-h4

emacspeak-eww-next-h4 (&optional speak)

[Command]

Move forward to the next h4.

Optional interactive prefix arg speaks the h4.

The h4 is automatically spoken if there is no user activity.

12.74.6.22 emacspeak-eww-next-h5

emacspeak-eww-next-h5 (&optional speak)

[Command]

Move forward to the next h5.

Optional interactive prefix arg speaks the h5.

The h5 is automatically spoken if there is no user activity.

12.74.6.23 emacspeak-eww-next-h6

emacspeak-eww-next-h6 (&optional speak)

[Command]

Move forward to the next h6.

Optional interactive prefix arg speaks the h6.

The h6 is automatically spoken if there is no user activity.

12.74.6.24 emacspeak-eww-next-li

emacspeak-eww-next-li (&optional speak)

[Command]

Move forward to the next li.

Optional interactive prefix arg speaks the li.

The li is automatically spoken if there is no user activity.

12.74.6.25 emacspeak-eww-next-ol

emacspeak-eww-next-ol (&optional speak)

[Command]

Move forward to the next ol.

Optional interactive prefix arg speaks the ol.

The ol is automatically spoken if there is no user activity.

12.74.6.26 emacspeak-eww-next-p

emacspeak-eww-next-p (&optional speak)

[Command]

Move forward to the next p.

Optional interactive prefix arg speaks the p.

The p is automatically spoken if there is no user activity.

12.74.6.27 emacspeak-eww-next-table

emacspeak-eww-next-table (&optional speak)

[Command]

Move forward to the next table.

Optional interactive prefix arg speaks the table.

The table is automatically spoken if there is no user activity.

12.74.6.28 emacspeak-eww-next-ul

emacspeak-eww-next-ul (&optional speak)

[Command]

Move forward to the next ul.

Optional interactive prefix arg speaks the ul.

The ul is automatically spoken if there is no user activity.

12.74.6.29 emacspeak-eww-open-mark

emacspeak-eww-open-mark (name &optional delete)

[Command]

C-x r e

Open EWW marked location. With optional interactive prefix arg 'delete', delete that mark instead.

(fn NAME & optional DELETE)

12.74.6.30 emacspeak-eww-play-media-at-point

emacspeak-eww-play-media-at-point (&optional playlist-p)

[Command]

 $C-e\ M-;$

<fn> M-;

Play media url under point.

Optional interactive prefix arg 'playlist-p' says to treat the link as a playlist. A second interactive prefix arg adds mplayer option -allow-dangerous-playlist-parsing

(fn &optional PLAYLIST-P)

12.74.6.31 emacspeak-eww-previous-dd

emacspeak-eww-previous-dd (&optional speak)

[Command]

Move backward to the next dd.

Optional interactive prefix arg speaks the dd.

The dd is automatically spoken if there is no user activity.

12.74.6.32 emacspeak-eww-previous-dl

emacspeak-eww-previous-dl (&optional speak)

[Command]

Move backward to the next dl.

Optional interactive prefix arg speaks the dl.

The dl is automatically spoken if there is no user activity.

12.74.6.33 emacspeak-eww-previous-dt

emacspeak-eww-previous-dt (&optional speak)

[Command]

Move backward to the next dt.

Optional interactive prefix arg speaks the dt.

The dt is automatically spoken if there is no user activity.

12.74.6.34 emacspeak-eww-previous-element

emacspeak-eww-previous-element (el)

[Command]

Move backward to the previous specified element.

(fn EL)

12.74.6.35 emacspeak-eww-previous-element-from-history

emacspeak-eww-previous-element-from-history

[Command]

Uses element navigation history to decide where we jump.

12.74.6.36 emacspeak-eww-previous-element-like-this

emacspeak-eww-previous-element-like-this (element)

[Command]

Moves to next element like current.

Prompts if content at point is enclosed by multiple elements.

(fn ELEMENT)

12.74.6.37 emacspeak-eww-previous-h

emacspeak-eww-previous-h (&optional speak)

[Command]

Move backward to the next h.

Optional interactive prefix arg speaks the h.

The h is automatically spoken if there is no user activity.

12.74.6.38 emacspeak-eww-previous-h1

emacspeak-eww-previous-h1 (&optional speak)

[Command]

Move backward to the next h1.

Optional interactive prefix arg speaks the h1.

The h1 is automatically spoken if there is no user activity.

12.74.6.39 emacspeak-eww-previous-h2

emacspeak-eww-previous-h2 (&optional speak)

[Command]

Move backward to the next h2.

Optional interactive prefix arg speaks the h2.

The h2 is automatically spoken if there is no user activity.

12.74.6.40 emacspeak-eww-previous-h3

emacspeak-eww-previous-h3 (&optional speak)

[Command]

Move backward to the next h3.

Optional interactive prefix arg speaks the h3.

The h3 is automatically spoken if there is no user activity.

12.74.6.41 emacspeak-eww-previous-h4

emacspeak-eww-previous-h4 (&optional speak)

[Command]

Move backward to the next h4.

Optional interactive prefix arg speaks the h4.

The h4 is automatically spoken if there is no user activity.

12.74.6.42 emacspeak-eww-previous-h5

emacspeak-eww-previous-h5 (&optional speak)

[Command]

Move backward to the next h5.

Optional interactive prefix arg speaks the h5.

The h5 is automatically spoken if there is no user activity.

12.74.6.43 emacspeak-eww-previous-h6

emacspeak-eww-previous-h6 (&optional speak)

[Command]

Move backward to the next h6.

Optional interactive prefix arg speaks the h6.

The h6 is automatically spoken if there is no user activity.

12.74.6.44 emacspeak-eww-previous-li

emacspeak-eww-previous-li (&optional speak)

[Command]

Move backward to the next li.

Optional interactive prefix arg speaks the li.

The li is automatically spoken if there is no user activity.

12.74.6.45 emacspeak-eww-previous-ol

emacspeak-eww-previous-ol (&optional speak)

[Command]

Move backward to the next ol.

Optional interactive prefix arg speaks the ol.

The ol is automatically spoken if there is no user activity.

12.74.6.46 emacspeak-eww-previous-p

emacspeak-eww-previous-p (&optional speak)

[Command]

Move backward to the next p.

Optional interactive prefix arg speaks the p.

The p is automatically spoken if there is no user activity.

12.74.6.47 emacspeak-eww-previous-table

emacspeak-eww-previous-table (&optional speak)

[Command]

Move backward to the next table.

Optional interactive prefix arg speaks the table.

The table is automatically spoken if there is no user activity.

12.74.6.48 emacspeak-eww-previous-ul

emacspeak-eww-previous-ul (&optional speak)

[Command]

Move backward to the next ul.

Optional interactive prefix arg speaks the ul.

The ul is automatically spoken if there is no user activity.

12.74.6.49 emacspeak-eww-reading-settings

emacspeak-eww-reading-settings

[Command]

Setup speech-rate, punctuation and split-caps for reading prose.

12.74.6.50 emacspeak-eww-restore

emacspeak-eww-restore

[Command]

Restore buffer to pre-filtered canonical state.

12.74.6.51 emacspeak-eww-shell-command-on-url-at-point

$\verb|emacspeak-eww-shell-command-on-url-at-point| (\& optional)$

[Command]

prefix)

Run specified shell command on URL at point.

Warning: Running shell script cbox through this fails mysteriously.

(fn &optional PREFIX)

12.74.6.52 emacspeak-eww-smart-tabs

emacspeak-eww-smart-tabs (char &optional define)

[Command]

C-, SPC

C-x @ a SPC

Open URL in EWW keyed by 'char'.

To associate a URL with a char, use this command with an interactive prefix arg.

(fn CHAR & optional DEFINE)

12.74.6.53 emacspeak-eww-smart-tabs-add

emacspeak-eww-smart-tabs-add (char url)

[Command]

Add a URL to the specified location in smart tabs.

(fn CHAR URL)

12.74.6.54 emacspeak-eww-smart-tabs-load

emacspeak-eww-smart-tabs-load

[Command]

Load our smart tabsfrom a file.

12.74.6.55 emacspeak-eww-smart-tabs-save

emacspeak-eww-smart-tabs-save

[Command]

Save our smart tabs to a file for reloading.

12.74.6.56 emacspeak-eww-speak-this-element

emacspeak-eww-speak-this-element (element)

[Command]

Speaks to next element like current.

Uses most recently navigated structural unit.

Otherwise, prompts if content at point is enclosed by multiple elements.

(fn ELEMENT)

12.74.6.57 emacspeak-eww-table-data

emacspeak-eww-table-data

[Command]

View table at point as a data table using Emacspeak Table UI.

12.74.6.58 emacspeak-eww-table-next-cell

emacspeak-eww-table-next-cell (&optional prefix)

[Command]

Speak next cell after making it current.

Interactive prefix arg moves to the last cell in the table.

(fn &optional PREFIX)

12.74.6.59 emacspeak-eww-table-next-row

emacspeak-eww-table-next-row (&optional prefix)

[Command]

Speak cell after moving to next row.

Optional interactive prefix arg moves to end of table.

(fn &optional PREFIX)

12.74.6.60 emacspeak-eww-table-previous-cell

emacspeak-eww-table-previous-cell (&optional prefix)

[Command]

Speak previous cell after making it current.

With interactive prefix arg, move to the start of the table.

(fn &optional PREFIX)

12.74.6.61 emacspeak-eww-table-previous-row

emacspeak-eww-table-previous-row (&optional prefix)

[Command]

Speak cell after moving to previous row.

Optional interactive prefix arg moves to start of table.

(fn &optional PREFIX)

12.74.6.62 emacspeak-eww-table-speak-cell

emacspeak-eww-table-speak-cell

[Command]

Speak current cell.

12.74.6.63 emacspeak-eww-table-speak-dimensions

emacspeak-eww-table-speak-dimensions

Speak number of rows and cells.

[Command]

12.74.6.64 emacspeak-eww-tags-at-point

emacspeak-eww-tags-at-point

Display tags at point.

[Command]

12.74.6.65 emacspeak-eww-update-title

emacspeak-eww-update-title (title)

[Command]

Interactively set title — renames buffer, and sets header-line.

(fn TITLE)

12.74.7 emacspeak-eww Options

User Option emacspeak-eww-inhibit-images
Turn this on to avoid rendering images.

[Variable]

12.75 emacspeak-extras

Infrequently used wizards archived for posterity.

12.75.1 Emacspeak-Extras Commands

12.75.1.1 emacspeak-annotate-add-annotation

emacspeak-annotate-add-annotation (&optional reset)

[Command]

Add annotation to the annotation working buffer.

Prompt for annotation buffer if not already set.

Interactive prefix arg 'reset' prompts for the annotation

buffer even if one is already set.

Annotation is entered in a temporary buffer and the annotation is inserted into the working buffer when complete.

12.75.1.2 emacspeak-clipboard-copy

emacspeak-clipboard-copy (start end &optional prompt)

[Command]

C-e C-c

<fn> C-c

Use file-based Emacspeak Clipboard —

dis a convenient way of sharing information between independent

Emacspeak sessions running on different machines.

12.75.1.3 emacspeak-clipboard-paste

${\tt emacspeak-clipboard-paste} \ (\textbf{\&optional} \ paste-table)$

[Command]

C-e C-y

<fn> C-v

Yank contents of the Emacspeak clipboard at point.

12.75.1.4 emacspeak-curl

emacspeak-curl (url)

[Command]

Grab URL using Curl, and preview it with a browser .

12.75.1.5 emacspeak-wizards-add-autoload-cookies

emacspeak-wizards-add-autoload-cookies (&optional f)

[Command]

Add autoload cookies to file f.

Default is to add autoload cookies to current file.

12.75.1.6 emacspeak-wizards-bindings-from-org

emacspeak-wizards-bindings-from-org (variable filename)
Load bindings from a specified file.

[Command]

12.75.1.7 emacspeak-wizards-bindings-to-org

emacspeak-wizards-bindings-to-org (variable filename)
Persists mapping to org file.

[Command]

12.75.1.8 emacspeak-wizards-braille

emacspeak-wizards-braille (s)

[Command]

Insert Braille string at point.

12.75.1.9 emacspeak-wizards-display-pod-as-manpage

emacspeak-wizards-display-pod-as-manpage (filename)

[Command]

Create a virtual manpage in Emacs from the Perl Online Documentation.

12.75.1.10 emacspeak-wizards-find-grep

emacspeak-wizards-find-grep (glob pattern)

[Command]

Run compile using find and grep.

Interactive arguments specify filename pattern and search pattern.

12.75.1.11 emacspeak-wizards-fix-read-only-text

emacspeak-wizards-fix-read-only-text (start end)

[Command]

Nuke read-only property on text range.

12.75.1.12 emacspeak-wizards-generate-voice-sampler

emacspeak-wizards-generate-voice-sampler (step)

[Command]

Generate a buffer that shows a sample line in all the ACSS settings for the current voice family.

12.75.1.13 emacspeak-wizards-list-voices

emacspeak-wizards-list-voices (pattern)

[Command]

C-h "

<f1> "

<help> "

Show all defined voice-face mappings in a help buffer. Sample text to use comes from variable 'ems-wizards-sampler-text

12.75.1.14 emacspeak-wizards-midi-using-m-score

emacspeak-wizards-midi-using-m-score (midi-file)

[Command]

Play midi file using mscore from musescore package.

12.75.1.15 emacspeak-wizards-show-voices

emacspeak-wizards-show-voices

[Command]

Display a buffer with sample text in the defined voices.

12.75.1.16 emacspeak-wizards-tramp-open-location

emacspeak-wizards-tramp-open-location (name)

[Command]

Open specified tramp location. Location is specified by name.

12.75.1.17 emacspeak-wizards-voice-sampler

emacspeak-wizards-voice-sampler (personality)

[Command]

Read a personality and apply it to the current line.

12.75.2 emacspeak-extras Options

User Option emacspeak-clipboard-file

[Variable]

File used to save Emacspeak clipboard. The emacspeak clipboard provides a convenient mechanism for exchanging information between different Emacs sessions.

User Option emacspeak-curl-cookie-store Cookie store used by Curl.

[Variable]

User Option emacspeak-wizards-tramp-locations

[Variable]

Tramp locations used by Emacspeak tramp wizard. Locations added here via custom can be opened using command emacspeak-wizards-tramp-open-location bound to M-x emacspeak-wizards-tramp-open-location.

12.76 emacspeak-feeds

This module provides Feeds support for Emacspeak

12.76.1 Emacspeak-Feeds Commands

12.76.1.1 emacspeak-feeds-add-feed

emacspeak-feeds-add-feed (title url type)

[Command]

C-e M-u

< fn > M-u

Add specified feed to our feed store.

(fn TITLE URL TYPE)

12.76.1.2 emacspeak-feeds-archive-feeds

emacspeak-feeds-archive-feeds

[Command]

Archive list of subscribed fees to personal resource directory.

Archiving is useful when synchronizing feeds across multiple machines.

12.76.1.3 emacspeak-feeds-atom-display

```
emacspeak-feeds-atom-display (feed-url)
```

[Command]

C-, a

C-x @ a a

Display ATOM feed.

(fn FEED-URL)

12.76.1.4 emacspeak-feeds-browse

emacspeak-feeds-browse (feed)

[Command]

С-е С-и

<fn> C-u

Browse feed.

(fn FEED)

12.76.1.5 emacspeak-feeds-fastload-feeds

emacspeak-feeds-fastload-feeds

[Command]

Fast load list of feeds from archive.

This directly updates emacspeak-feeds from the archive, rather than adding those entries to the current set of subscribed feeds.

12.76.1.6 emacspeak-feeds-opml-display

```
emacspeak-feeds-opml-display (feed-url)
```

[Command]

C-, o

C-x @ a o

Display OPML feed.

(fn FEED-URL)

12.76.1.7 emacspeak-feeds-restore-feeds

emacspeak-feeds-restore-feeds

[Command]

Restore list of subscribed fees from personal resource directory.

Archiving is useful when synchronizing feeds across multiple machines.

12.76.1.8 emacspeak-feeds-rss-display

```
emacspeak-feeds-rss-display (feed-url) [Command]

C-, r

C-x @ a r

Display RSS feed.

(fn FEED-URL)
```

12.76.2 emacspeak-feeds Options

User Option emacspeak-feeds

[Variable]

Table of RSS/Atom feeds. The feed list is persisted to file saved-feeds on exit.

12.77 emacspeak-filtertext

It is often useful to view the results of filtering large amounts of text.;;; Typically you do this with various combinations of grep and friends. When doing so it requires explicit effort to not destroy the original text being filtered.

12.77.1 Emacspeak-Filtertext Commands

12.77.1.1 emacspeak-filtertext

12.77.1.2 emacspeak-filtertext-mode

emacspeak-filtertext-mode

[Command]

Major mode for FilterText interaction.

```
key binding
— ———

= keep-lines
^ flush-lines
r emacspeak-filtertext-revert
```

In addition to any hooks its parent mode 'text-mode' might have run, this mode runs the hook 'emacspeak-filtertext-mode-hook', as the final or penultimate step during initialization.

12.77.1.3 emacspeak-filtertext-revert

${\tt emacspeak-filtertext-revert}$

[Command]

Revert to original text.

12.78 emacspeak-flycheck

FLYCHECK == On-the-fly checking.

12.79 emacspeak-flymake

Speech-enable flymake

12.80 emacspeak-flyspell

This module speech enables flyspell. it loads flyspell-correct if available, And when loading flyspell-correct sets up that module

12.80.1 emacspeak-flyspell Options

User Option emacspeak-flyspell-correct Correction style to use with flyspell. [Variable]

12.81 emacspeak-folding

Folding mode turns emacs into a folding editor.

12.82 emacspeak-forge

FORGE == Work with Github, Gitlab etc from inside magit. This module speech-enables magit/forge.

12.83 emacspeak-forms

Provide additional advice to forms-mode

12.83.1 Emacspeak-Forms Commands

12.83.1.1 emacspeak-forms-find-file

emacspeak-forms-find-file (filename)
Visit a forms file

[Command]

, 1810 @ 1011118 1110

(fn FILENAME)

12.83.1.2 emacspeak-forms-flush-unwanted-records

emacspeak-forms-flush-unwanted-records

[Command]

Prompt for pattern and flush matching lines

12.83.1.3 emacspeak-forms-rerun-filter

emacspeak-forms-rerun-filter

[Command]

Rerun filter –allows us to nuke more matching records

12.83.1.4 emacspeak-forms-speak-field

emacspeak-forms-speak-field

[Command]

Speak current form field name and value.

Assumes that point is at the front of a field value.

12.83.1.5 emacspeak-forms-summarize-current-position

${\tt emacspeak-forms-summarize-current-position}$

[Command]

Summarize current position in list of records

12.83.1.6 emacspeak-forms-summarize-current-record

emacspeak-forms-summarize-current-record

[Command]

Summarize current record

12.84 emacspeak-geiser

geiser.el — GNU Emacs and Scheme talk to each other This module speech-enables all interactive aspects of geiser, including the geiser->scheme REPL. This is used by racket-mode for racket interaction, And also for interacting with Guile.

12.85 emacspeak-gh-explorer

GH-EXPLORER == GitHub Explorer This module speech-enables Github Explorer.

12.85.1 Emacspeak-Gh-Explorer Commands

12.85.1.1 emacspeak-gh-explorer-next

emacspeak-gh-explorer-next

[Command]

Move forward and speak current entry.

12.85.1.2 emacspeak-gh-explorer-previous

emacspeak-gh-explorer-previous

[Command]

Moveback and speak current entry.

12.86 emacspeak-gnuplot

This module speech-enables gnuplot-mode an Emacs add-on that enables fluent interaction with gnuplot. Use gnuplot to generate plots of mathematical functions for inclusion in documents.

12.87 emacspeak-gnus

This module advises gnus to speak. Updating support in 2014 (Emacspeak is nearly 20 years old) Updating in 2018 as I switch to gnus as my primary mail interface.

12.87.1 Emacspeak-Gnus Commands

12.87.1.1 emacspeak-gnus-personal-gmail-last-week

emacspeak-gnus-personal-gmail-last-week

[Command]

Look for mail addressed personally in the last week.

12.87.1.2 emacspeak-gnus-personal-gmail-recent

emacspeak-gnus-personal-gmail-recent

[Command]

Look for mail addressed personally in the last day.

12.87.1.3 emacspeak-gnus-summary-catchup-quietly-and-exit

emacspeak-gnus-summary-catchup-quietly-and-exit

[Command]

Catch up on all articles in current group.

12.87.2 emacspeak-gnus Options

User Option emacspeak-gnus-large-article

[Variable]

Articles having more than emacspeak-gnus-large-article lines will be considered to be a large article. A large article is not spoken all at once; instead you hear only the first screenful.

User Option emacspeak-gnus-punctuation-mode Pronunciation mode to use for gnus buffers.

[Variable]

12.88 emacspeak-go-mode

GO-MODE == Go Language support in emacs

12.89 emacspeak-gomoku

Auditory interface to gomoku

12.89.1 Emacspeak-Gomoku Commands

$12.89.1.1\ emacspeak-gomoku-display-statistics$

emacspeak-gomoku-display-statistics

[Command]

Display statistics from previous games

12.89.1.2 emacspeak-gomoku-goto-x-y

emacspeak-gomoku-goto-x-y (x y)

[Command]

Prompt for and go to that square.

(fn X Y)

12.89.1.3 emacspeak-gomoku-show-current-column

emacspeak-gomoku-show-current-column

[Command]

Aurally display current column

12.89.1.4 emacspeak-gomoku-show-current-negative-diagonal

$\verb|emacspeak-gomoku-show-current-negative-diagonal|$

[Command]

Aurally display current negative sloped diagonal

12.89.1.5 emacspeak-gomoku-show-current-positive-diagonal

emacspeak-gomoku-show-current-positive-diagonal

[Command]

Aurally display current positively sloped diagonal

12.89.1.6 emacspeak-gomoku-show-current-row

$\verb|emacspeak-gomoku-show-current-row|$

[Command]

Aurally display current row

12.89.1.7 emacspeak-gomoku-speak-emacs-previous-move

${\tt emacspeak-gomoku-speak-emacs-previous-move}$

[Command]

Speak emacs' previous move

12.89.1.8 emacspeak-gomoku-speak-humans-previous-move

$\verb|emacspeak-gomoku-speak-humans-previous-move|\\$

[Command]

Speak human' previous move

12.89.1.9 emacspeak-gomoku-speak-number-of-moves

$\verb|emacspeak-gomoku-speak-number-of-moves||$

[Command]

Speak number of moves so far

$12.89.1.10\ {\rm emacspeak\text{-}gomoku\text{-}speak\text{-}square}$

emacspeak-gomoku-speak-square

[Command]

Speak coordinates and state of square at point

12.90 emacspeak-google

There are a number of search tools that can be implemented on the Google search page — in a JS-powered browser, these show up as the Google tool-belt. This module implements a minor mode for use in Google result pages that enables these tools via single keyboard commands. Originally all options were available as tbs=p:v Now, some specialized searches, e.g. blog search are tbm=

12.90.1 Emacspeak-Google Commands

12.90.1.1 emacspeak-google-extract-from-cache

emacspeak-google-extract-from-cache

[Command]

Extract current page from the Google cache.

12.90.1.2 emacspeak-google-knowledge-search

emacspeak-google-knowledge-search (query &optional limit)

[Command]

C-; k

C-x @ h k

Perform a Google Knowledge Graph search.

Optional interactive prefix arg 'limit' prompts for number of results, default is 1.

(fn QUERY & optional LIMIT)

12.90.1.3 emacspeak-google-on-this-site

emacspeak-google-on-this-site

[Command]

Perform a google search restricted to the current WWW site.

12.90.1.4 emacspeak-google-open-link

emacspeak-google-open-link

[Command]

Open Google link under point.

12.90.1.5 emacspeak-google-show-toolbelt

emacspeak-google-show-toolbelt

[Command]

Reload search page with toolbelt showing.

12.90.1.6 emacspeak-google-sign-in

${\tt emacspeak-google-sign-in}$

[Command]

Sign in to Google.

12.90.1.7 emacspeak-google-sign-out

emacspeak-google-sign-out

[Command]

Sign out to Google.

12.90.1.8 emacspeak-google-similar-to-this-page

emacspeak-google-similar-to-this-page (url)

[Command]

Ask Google to find documents similar to this one.

(fn URL)

12.90.1.9 emacspeak-google-toolbelt-change

emacspeak-google-toolbelt-change

[Command]

Command to change values in the toolbelt and execute the query.

12.90.1.10 emacspeak-google-toolbelt-change-Shopping

emacspeak-google-toolbelt-change-Shopping Change Shopping in the currently active toolbelt.

[Command]

12.90.1.11 emacspeak-google-toolbelt-change-blog

emacspeak-google-toolbelt-change-blog

[Command]

Change blog in the currently active toolbelt.

12.90.1.12 emacspeak-google-toolbelt-change-books

emacspeak-google-toolbelt-change-books

[Command]

Change books in the currently active toolbelt.

12.90.1.13 emacspeak-google-toolbelt-change-books-format

${\tt emacspeak-google-toolbelt-change-books-format}$

[Command]

Change books-format in the currently active toolbelt.

12.90.1.14 emacspeak-google-toolbelt-change-books-type

emacspeak-google-toolbelt-change-books-type Change books-type in the currently active toolbelt.

[Command]

12.90.1.15 emacspeak-google-toolbelt-change-books-viewability

emacspeak-google-toolbelt-change-books-viewability

[Command]

Change books-viewability in the currently active toolbelt.

12.90.1.16 emacspeak-google-toolbelt-change-commercial

emacspeak-google-toolbelt-change-commercial

[Command]

Change commercial in the currently active toolbelt.

12.90.1.17 emacspeak-google-toolbelt-change-commercial-prices

emacspeak-google-toolbelt-change-commercial-prices

[Command]

Change commercial-prices in the currently active toolbelt.

12.90.1.18 emacspeak-google-toolbelt-change-date-filter

emacspeak-google-toolbelt-change-date-filter

[Command]

Change date-filter in the currently active toolbelt.

12.90.1.19 emacspeak-google-toolbelt-change-forums

emacspeak-google-toolbelt-change-forums

[Command]

Change forums in the currently active toolbelt.

12.90.1.20 emacspeak-google-toolbelt-change-group-discussions

emacspeak-google-toolbelt-change-group-discussions Change group-discussions in the currently active toolbelt. [Command]

12.90.1.21 emacspeak-google-toolbelt-change-images

emacspeak-google-toolbelt-change-images Change images in the currently active toolbelt. [Command]

12.90.1.22 emacspeak-google-toolbelt-change-in-depth

emacspeak-google-toolbelt-change-in-depth Change in-depth in the currently active toolbelt.

[Command]

12.90.1.23 emacspeak-google-toolbelt-change-literal

emacspeak-google-toolbelt-change-literal Change literal in the currently active toolbelt.

[Command]

12.90.1.24 emacspeak-google-toolbelt-change-news

emacspeak-google-toolbelt-change-news Change news in the currently active toolbelt. [Command]

12.90.1.25 emacspeak-google-toolbelt-change-non-commercial

emacspeak-google-toolbelt-change-non-commercial Change non-commercial in the currently active toolbelt.

[Command]

12.90.1.26 emacspeak-google-toolbelt-change-patents

emacspeak-google-toolbelt-change-patents
Change patents in the currently active toolbelt.

[Command]

12.90.1.27 emacspeak-google-toolbelt-change-places

emacspeak-google-toolbelt-change-places Change places in the currently active toolbelt. [Command]

12.90.1.28 emacspeak-google-toolbelt-change-recent

emacspeak-google-toolbelt-change-recent Change recent in the currently active toolbelt. [Command]

12.90.1.29 emacspeak-google-toolbelt-change-recipes

emacspeak-google-toolbelt-change-recipes Change recipes in the currently active toolbelt. [Command]

12.90.1.30 emacspeak-google-toolbelt-change-reviews

emacspeak-google-toolbelt-change-reviews

[Command]

Change reviews in the currently active toolbelt.

12.90.1.31 emacspeak-google-toolbelt-change-social

emacspeak-google-toolbelt-change-social

[Command]

Change social in the currently active toolbelt.

12.90.1.32 emacspeak-google-toolbelt-change-sort-by-date

emacspeak-google-toolbelt-change-sort-by-date

[Command]

Change sort-by-date in the currently active toolbelt.

12.90.1.33 emacspeak-google-toolbelt-change-structured-snippets

emacspeak-google-toolbelt-change-structured-snippets
Change structured-snippets in the currently active toolbelt.

[Command]

12.90.1.34 emacspeak-google-toolbelt-change-timeline

emacspeak-google-toolbelt-change-timeline

[Command]

Change timeline in the currently active toolbelt.

12.90.1.35 emacspeak-google-toolbelt-change-timeline-high

12.90.1.36 emacspeak-google-toolbelt-change-timeline-low

emacspeak-google-toolbelt-change-timeline-high

[Command]

Change timeline-high in the currently active toolbelt.

emacspeak-google-toolbelt-change-timeline-low

[Command]

Change timeline-low in the currently active toolbelt.

12.90.1.37 emacspeak-google-toolbelt-change-video

emacspeak-google-toolbelt-change-video

[Command]

Change video in the currently active toolbelt.

12.90.1.38 emacspeak-google-toolbelt-change-video-duration

emacspeak-google-toolbelt-change-video-duration

[Command]

Change video-duration in the currently active toolbelt.

12.90.1.39 emacspeak-google-toolbelt-change-web-history-not-visited

emacspeak-google-toolbelt-change-web-history-not-visited

[Command]

Change web-history-not-visited in the currently active toolbelt.

12.90.1.40 emacspeak-google-toolbelt-change-web-history-visited

${\tt emacspeak-google-toolbelt-change-web-history-visited}$

[Command]

Change web-history-visited in the currently active toolbelt.

12.90.1.41 emacspeak-google-tts

emacspeak-google-tts (text &optional lang)

[Command]

Google Network TTS.

Optional interactive prefix arg 'lang' specifies language identifier.

(fn TEXT & optional LANG)

12.90.1.42 emacspeak-google-tts-region

emacspeak-google-tts-region (start end &optional ask-lang) Speak region using Google Network TTS.

[Command]

(fn START END & String ASK-LANG)

12.90.1.43 emacspeak-google-what-is-my-ip

emacspeak-google-what-is-my-ip

[Command]

Show my public IP

12.90.1.44 emacspeak-google-who-links-to-this-page

emacspeak-google-who-links-to-this-page

[Command]

Perform a google search to locate documents that link to the current page.

12.90.2 emacspeak-google Options

User Option emacspeak-google-kg-key API Key for Google Knowledge Graph.

[Variable]

User Option emacspeak-google-tts-default-language

[Variable]

Default language used for Google TTS.

12.91 emacspeak-gridtext

Emacspeak's table browsing mode allows one to efficiently access content that is tabular in nature. That module also provides functions for inferring table structure where possible. Often, such structure is hard to infer automatically –but might be known to the user e.g. treat columns 1 through 30 as one column of a table and so on. This module allows the user to specify a conceptual grid that is "overlaid" on the region of text to turn it into a table for tabular browsing. For now, elements of the grid are "one line" high –but that may change in the future if necessary. This module is useful for browsing structured text files and the output from programs that tabulate their output. It's also useful for handling multicolumn text. The "grid" is specified as a list of (start end) tuples..

12.91.1 Emacspeak-Gridtext Commands

12.91.1.1 emacspeak-gridtext-apply

emacspeak-gridtext-apply (start end grid)
Apply grid to region.

[Command]

(fn START END GRID)

12.91.1.2 emacspeak-gridtext-load

emacspeak-gridtext-load (file)

[Command]

Load saved grid settings.

(fn FILE)

12.91.1.3 emacspeak-gridtext-save

emacspeak-gridtext-save (file)

[Command]

Save out grid settings.

(fn FILE)

12.92 emacspeak-gtags

GTAGS == Emacs support for GNU global. GNU global implements a modern tags solution Package gtags interfaces Emacs to this tool.

12.93 emacspeak-gud

Provide additional advice to ease debugger interaction with gud

12.94 emacspeak-haskell

Speech-enable package haskell-mode

12.95 emacspeak-helm

HELM == Smart narrowing/selection in emacs This module speech-enables Helm interaction. See tvr/helm-prepare.el in the GitHub repository for my helm setup. that file provides convenient emacspeak-centric keybindings for Helm interaction.

12.96 emacspeak-hide

Flexible hide and show for emacspeak. This module allows one to easily hide or expose blocks of lines starting with a common prefix. It is motivated by the need to flexibly hide quoted text in email but is designed to be more general. the prefix parsing is inspired by filladapt.el

12.96.1 Emacspeak-Hide Commands

12.96.1.1 emacspeak-hide-or-expose-all-blocks

emacspeak-hide-or-expose-all-blocks Hide or expose all blocks. [Command]

12.96.1.2 emacspeak-hide-or-expose-block

emacspeak-hide-or-expose-block (&optional prefix)

[Command]

С-е j

<fn> i

Hide or expose a block of text.

Optional interactive prefix arg causes all blocks in current buffer to be hidden or exposed.

(fn &optional PREFIX)

12.96.1.3 emacspeak-hide-speak-block-sans-prefix

emacspeak-hide-speak-block-sans-prefix

[Command]

С-е С-ј

<fn> C-i

Speaks current block after stripping its prefix.

12.97 emacspeak-hide-lines

HIDE-LINES == hide/show lines from melpa

12.98 emacspeak-hideshow

speech-enable hideshow.el

12.99 emacspeak-hydra

12.99.1 Emacspeak-Hydra Commands

12.99.1.1 emacspeak-hydra-toggle-talkative

emacspeak-hydra-toggle-talkative Toggle state of hydra-is-helpful [Command]

12.100 emacspeak-ibuffer

speech-enable ibuffer.el this is an alternative to buffer-menu

12.100.1 Emacspeak-Ibuffer Commands

12.100.1.1 emacspeak-ibuffer-speak-buffer-line

 ${\tt emacspeak-ibuffer-speak-buffer-line}$

[Command]

Speak information about this buffer

12.101 emacspeak-ido

speech-enable ido.el This is an interesting task since most of the value-add provided by package ido.el is visual feedback. Speech UI Challenge: What is the most efficient means of conveying a dynamically updating set of choices? current strategy is to walk the list using c-s and c-r as provided by ido Set number matches shown (ido-max-prospects) to 3 using Custom so you dont hear the entire list.

12.101.1 emacspeak-ido Options

User Option emacspeak-ido-typing-delay
How long we wait before speaking completions.

[Variable]

12.102 emacspeak-iedit

IEDIT == Edit multiple regions This module speech-enables iedit.

12.103 emacspeak-indium

INDIUM == Javascript IDE This module speech-enables Indium.

12.104 emacspeak-info

This module speech-enables the Emacs Info Reader.

12.104.1 Emacspeak-Info Commands

12.104.1.1 emacspeak-info-next-section

emacspeak-info-next-section

[Command]

Move forward to next section in this node.

12.104.1.2 emacspeak-info-previous-section

emacspeak-info-previous-section

[Command]

Move backward to previous section in this node.

12.104.1.3 emacspeak-info-speak-header

emacspeak-info-speak-header

[Command]

Speak info header line.

12.104.1.4 emacspeak-info-wizard

emacspeak-info-wizard (node-spec)

[Command]

C-h TAB

<f1> TAB

<help> TAB

Read a node spec from the minibuffer and launch Info-goto-node.

See documentation for command 'Info-goto-node' for details on node-spec.

(fn NODE-SPEC)

12.104.2 emacspeak-info Options

User Option emacspeak-info-select-node-speak-chunk

[Variable]

Specifies how much of the selected node gets spoken. Possible values are: screenfull – speak the displayed screen node – speak the entire node.

12.105 emacspeak-ispell

This module speech enables is pell. Implementation note: This is hard because of how ispell. el is written Namely, all of the work is done by one huge hairy function. This makes advising it hard. The ispell commands work well with Emacspeak as long as the list of correction choices are few. For interactively moving through corrections, install package flyspell-correct from MELPA (package-install "flyspell-correct") Then use M-x flyspell-mode. Package flyspell is speech-enabled by Emacspeak module emacspeak-flyspell And that module sets up flyspell-correct to use IDO-style completion, i.e. you can move through corrections with C-r and C-s.

12.105.1 emacspeak-ispell Options

User Option emacspeak-ispell-max-choices

[Variable]

Emacspeak will not speak the choices if there are more than this many available corrections.

12.106 emacspeak-ivy

IVY == One More Smart Completion Technique Speech-enable ivy-style completion. This is still experimental and preliminary.

12.107 emacspeak-jabber

emacs-jabber.el implements a jabber client for emacs emacs-jabber is hosted at sourceforge. I use emacs-jabber with my gmail.com account

12.107.1 Emacspeak-Jabber Commands

12.107.1.1 emacspeak-jabber-chat-next-message

emacspeak-jabber-chat-next-message

[Command]

Move forward to and speak the next message in this chat session.

12.107.1.2 emacspeak-jabber-chat-previous-message

emacspeak-jabber-chat-previous-message

[Command]

Move backward to and speak the previous message in this chat session.

12.107.1.3 emacspeak-jabber-chat-speak-this-message

emacspeak-jabber-chat-speak-this-message (&optional copy-as-kill)

[Command]

Speak chat message under point.

With optional interactive prefix arg 'copy-as-kill', copy it to the kill ring as well.

(fn & optional COPY-AS-KILL)

12.107.1.4 emacspeak-jabber-popup-roster

emacspeak-jabber-popup-roster

[Command]

 $C-e \times j$

 $\langle fn \rangle x j$

Pop to Jabber roster.

12.107.1.5 emacspeak-jabber-speak-recent-message

emacspeak-jabber-speak-recent-message

[Command]

C-e x SPC

<fn> x SPC

Speak most recent message if one exists.

12.107.2 emacspeak-jabber Options

User Option emacspeak-jabber-speak-presence-alerts Set to T if you want to hear presence alerts. [Variable]

12.108 emacspeak-jdee

Speech enable Java IDE. The Java IDE –JDEE– can be found at http://sunsite.auc.dk/jdee/

12.109 emacspeak-js2

JS2-mode http://js2-mode.googlecode.com/svn/trunk is a new, powerful Emacs mode for working with JavaScript. This module speech-enables js2.

12.110 emacspeak-keymap

This module defines the emacspeak keybindings. Note that the \leq fn> key found on laptops is denoted \leq fn>

12.110.1 emacspeak-keymap Options

User Option emacspeak-alt-keys Alt key bindings. [Variable]

User Option emacspeak-ctl-z-keys CTL-z keymap.

[Variable]

User Option emacspeak-hyper-keys Hyper-Key bindings. [Variable]

User Option emacspeak-personal-ctlx-keys Key bindings for use with C-e C-x. [Variable]

User Option emacspeak-personal-keys Key bindings for C-e x. [Variable]

User Option emacspeak-super-keys Super key bindings.

[Variable]

12.111 emacspeak-kmacro

speech-enables kmacro — a kbd macro interface

12.112 emacspeak-librivox

LIBRIVOX == http://www.librivox.org — Free Audio Books. API Info: https://librivox.org/api/info It provides a simple Web API This module implements an Emacspeak Librivox client.

12.112.1 Usage

main entry point is command emacspeak-librivox bound to C-; 1.

12.112.2 Emacspeak-Librivox Commands

12.112.2.1 emacspeak-librivox

emacspeak-librivox (search-type)

[Command]

C-; 1

C-x @ h 1

Launch a Librivox Search.

(fn SEARCH-TYPE)

12.112.2.2 emacspeak-librivox-play

 $\verb|emacspeak-librivox-play| (rss-url)$

[Command]

Play book stream

(fn RSS-URL)

12.112.2.3 emacspeak-librivox-search-by-author

emacspeak-librivox-search-by-author (author &optional offset) [Command]

Search by author. Both exact and partial matches for

'author'. Optional interactive prefix arg 'offset' prompts for offset

— use this for retrieving next set of results.

(fn AUTHOR & optional OFFSET)

12.112.2.4 emacspeak-librivox-search-by-genre

emacspeak-librivox-search-by-genre (genre &optional offset)

[Command]

Search by genre.

Optional prefix arg 'offset' prompts for offset.

(fn GENRE & optional OFFSET)

12.112.2.5 emacspeak-librivox-search-by-title

emacspeak-librivox-search-by-title (title &optional offset)

[Command]

Search by title. Both exact and partial matches for 'title'. Optional prefix arg 'offset' prompts for offset — use this for retrieving more results.

(fn TITLE &optional OFFSET)

12.112.3 emacspeak-librivox Options

User Option emacspeak-librivox-local-cache Location where we cache LIBRIVOX playlists. [Variable]

12.113 emacspeak-lispy

LISPY == smart Navigation Of Lisp code This module speech-enables lispy.

12.113.1 Overview

Lispy editing keeps delimiters balanced and Lispy navigators reliably place point on either the opening or closing delimiter of the current s-expression. Emacspeak leverages this fact in the

12.114 emacspeak-lua

LUA == lua-mode Speech-enable lua-mode.

12.115 emacspeak-m-player

Defines an Emacspeak front-end for interacting with mplayer. Program mplayer is a versatile media player capable of playing many streaming media formats. This module provides complete access to all mplayer functionality from a convenient Emacs interface.

12.115.1 Usage

The main entry-point is command emacspeak-multimedia bound to C-e;. This prompts for and launches the desired media stream. Once a stream is playing, you can control it with single-letter keystrokes in the *M-Player* buffer. Alternatively, you can switch away from that buffer to do real work, And invoke m-player commands by first pressing C-e;. As an example, pressing v in the *M-Player* buffer prompts for and sets the volume; When not in the *M-Player* buffer, you can achieve the same by pressing C-e; v. Press C-h b in the *M-Player* buffer to list m-player keybindings.

12.115.2 Emacspeak-M-Player Commands

12.115.2.1 emacspeak-m-player

emacspeak-m-player (resource &optional play-list)

[Command]

Play resource. Optional prefix argument play-list interprets resource as a play-list. Second interactive prefix arg adds option -allow-dangerous-playlist-parsing to mplayer.

(fn RESOURCE & optional PLAY-LIST)

12.115.2.2 emacspeak-m-player-add-autopan

${\tt emacspeak-m-player-add-autopan}$

[Command]

Add autopan effect.

12.115.2.3 emacspeak-m-player-add-autosat

emacspeak-m-player-add-autosat

[Command]

Add ZamAutoSat (auto saturation) effect.

12.115.2.4 emacspeak-m-player-add-equalizer

emacspeak-m-player-add-equalizer (&optional reset)

[Command]

Add equalizer. Equalizer is updated as each change is made, and the final effect set by pressing RET. Interactive prefix arg 'reset' starts with all filters set to 0.

(fn &optional RESET)

12.115.2.5 emacspeak-m-player-add-filter

emacspeak-m-player-add-filter (filter-name &optional edit)

[Command]

Adds filter with completion.

Optional interactive prefix arg 'edit' edits the.

(fn FILTER-NAME & optional EDIT)

12.115.2.6 emacspeak-m-player-add-ladspa

emacspeak-m-player-add-ladspa

[Command]

Apply plugin to running MPlayer.

Copies invocation string to kill-ring so it can be added easily to our pre-defined filters if appropriate.

12.115.2.7 emacspeak-m-player-alt-src-step

emacspeak-m-player-alt-src-step (step)

[Command]

Move within an ASF playlist.

(fn STEP)

12.115.2.8 emacspeak-m-player-amark-add

${\tt emacspeak-m-player-amark-add} \ (name \ \& optional$

[Command]

prompt-position)

Set AMark 'name' at current position.

Interactive prefix arg prompts for position.

As the default, use current position.

(fn NAME & optional PROMPT-POSITION)

12.115.2.9 emacspeak-m-player-amark-jump

emacspeak-m-player-amark-jump

[Command]

Jump to AMark.

12.115.2.10 emacspeak-m-player-amark-save

emacspeak-m-player-amark-save

[Command]

Save amarks.

12.115.2.11 emacspeak-m-player-apply-reverb-preset

emacspeak-m-player-apply-reverb-preset (preset)

[Command]

Prompt for and apply a reverb preset.

You need to use mplayer built with ladspa support, and have package tap-reverb already installed.

(fn PRESET)

12.115.2.12 emacspeak-m-player-backward-10min

emacspeak-m-player-backward-10min

[Command]

Move backward ten minutes.

12.115.2.13 emacspeak-m-player-backward-10s

emacspeak-m-player-backward-10s

[Command]

Move back 10 seconds.

12.115.2.14 emacspeak-m-player-backward-1min

emacspeak-m-player-backward-1min Move back 1 minute. [Command]

12.115.2.15 emacspeak-m-player-balance

emacspeak-m-player-balance Set left/right balance. [Command]

12.115.2.16 emacspeak-m-player-beginning-of-track

[Command]

12.115.2.17 emacspeak-m-player-bind-accelerator

emacspeak-m-player-bind-accelerator (directory key)
Binds key to invoke m-player on specified directory.

[Command]

(fn DIRECTORY KEY)

12.115.2.18 emacspeak-m-player-clear-filters

emacspeak-m-player-clear-filters Clear all filters [Command]

12.115.2.19 emacspeak-m-player-command

emacspeak-m-player-command (key)
Invoke MPlayer commands.

[Command]

(fn KEY)

12.115.2.20 emacspeak-m-player-customize-options

emacspeak-m-player-customize-options Use Customize to set MPlayer options. [Command]

12.115.2.21 emacspeak-m-player-delete-filter

emacspeak-m-player-delete-filter (filter)
Delete filter.

[Command]

(fn FILTER)

12.115.2.22 emacspeak-m-player-delete-ladspa

emacspeak-m-player-delete-ladspa

[Command]

Delete plugin from running MPlayer.

12.115.2.23 emacspeak-m-player-display-metadata

emacspeak-m-player-display-metadata

[Command]

Display metadata after refreshing it if needed.

12.115.2.24 emacspeak-m-player-display-percent

emacspeak-m-player-display-percent

[Command]

Display current percentage.

12.115.2.25 emacspeak-m-player-display-position

emacspeak-m-player-display-position

[Command]

Display current position in track.

12.115.2.26 emacspeak-m-player-double-speed

${\tt emacspeak-m-player-double-speed}$

[Command]

Scale speed by 2.0

12.115.2.27 emacspeak-m-player-edit-reverb

emacspeak-m-player-edit-reverb

[Command]

Edit ladspa reverb filter.

You need to use mplayer built with ladspa support, and have package tap-reverb already installed.

12.115.2.28 emacspeak-m-player-end-of-track

${\tt emacspeak-m-player-end-of-track}$

[Command]

Move to end.

12.115.2.29 emacspeak-m-player-equalizer-control

emacspeak-m-player-equalizer-control(v)

[Command]

Manipulate values in vector using minibuffer.

Applies the resulting value at each step.

(fn V)

12.115.2.30 emacspeak-m-player-equalizer-preset

emacspeak-m-player-equalizer-preset (name)

[Command]

Prompts for and apply equalizer preset.

The following presets are available:

flat classical club dance full-bass full-bass-and-treble full-treble headphones large-hall live party pop reggae rock ska soft soft-rock techno

(fn NAME)

12.115.2.31 emacspeak-m-player-faster

 ${\tt emacspeak-m-player-faster}$

[Command]

Speed up playback.

12.115.2.32 emacspeak-m-player-forward-10min

emacspeak-m-player-forward-10min

[Command]

Move forward ten minutes.

12.115.2.33 emacspeak-m-player-forward-10s

 ${\tt emacspeak-m-player-forward-10s}$

[Command]

Move forward 10 seconds.

12.115.2.34 emacspeak-m-player-forward-1min

emacspeak-m-player-forward-1min

[Command]

Move forward by 1 minute.

12.115.2.35 emacspeak-m-player-from-media-history

emacspeak-m-player-from-media-history (posn)

[Command]

C-.h

C-' h

C-x @ s h

Play media from position 'posn'media-history.

(fn POSN)

12.115.2.36 emacspeak-m-player-get-length

emacspeak-m-player-get-length

[Command]

Display length of track.

12.115.2.37 emacspeak-m-player-half-speed

 ${\tt emacspeak-m-player-half-speed}$

[Command]

Scale speed by 0.5.

12.115.2.38 emacspeak-m-player-left-channel

emacspeak-m-player-left-channel

[Command]

Play both channels on left.

12.115.2.39 emacspeak-m-player-load

emacspeak-m-player-load (resource &optional append)

[Command]

Load specified resource into a running m-player.

Interactive prefix arg appends the new resource to what is playing.

(fn RESOURCE & optional APPEND)

12.115.2.40 emacspeak-m-player-load-file

emacspeak-m-player-load-file (f)
 Load file.

[Command]

(fn F)

12.115.2.41 emacspeak-m-player-load-playlist

emacspeak-m-player-load-playlist (f) Load playlist.

[Command]

(fn F)

12.115.2.42 emacspeak-m-player-locate-media

emacspeak-m-player-locate-media (pattern)

[Command]

C-. 1

C-'1

C-x @ s 1

Locate media matching pattern. The results can be played as a play-list by pressing [RET] on the first line, see M-x emacspeak-dired-open-this-file locally bound to C-RET to play tracks.

(fn PATTERN)

12.115.2.43 emacspeak-m-player-mode

emacspeak-m-player-mode

[Command]

Major mode for m-player interaction.

key binding

C-l ladspa

RET emacspeak-m-player-load

ESC Prefix Command

SPC emacspeak-m-player-pause

```
% emacspeak-m-player-display-percent
(emacspeak-m-player-left-channel
) emacspeak-m-player-right-channel
+ emacspeak-m-player-volume-up
, emacspeak-m-player-backward-10s
- emacspeak-m-player-volume-down
. emacspeak-m-player-forward-10s
/ emacspeak-m-player-restore-process
1 .. 9 emacspeak-m-player-volume-set
; emacspeak-m-player-pop-to-player
< emacspeak-m-player-backward-1min</p>
= emacspeak-m-player-volume-up
> emacspeak-m-player-forward-1min
? emacspeak-m-player-display-position
A emacspeak-m-player-amark-add
C emacspeak-m-player-clear-filters
E emacspeak-m-player-add-equalizer
G emacspeak-m-player-seek-percentage
L emacspeak-m-player-locate-media
M emacspeak-m-player-display-metadata
O emacspeak-m-player-reset-options
P emacspeak-m-player-apply-reverb-preset
Q emacspeak-m-player-quit
R emacspeak-m-player-edit-reverb
S emacspeak-m-player-amark-save
emacspeak-m-player-slower
\ emacspeak-m-player-persist-process
emacspeak-m-player-faster
a emacspeak-m-player-add-autopan
b emacspeak-wizards-view-buffers-filtered-by-m-player-mode
c emacspeak-m-player-slave-command
d emacspeak-m-player-delete-filter
e emacspeak-m-player-equalizer-preset
f emacspeak-m-player-add-filter
g emacspeak-m-player-seek-absolute
i emacspeak-m-player-stream-info
j emacspeak-m-player-amark-jump
k emacspeak-m-player-quit
l emacspeak-m-player-get-length
m emacspeak-m-player-mode-line
n emacspeak-m-player-next-track
o emacspeak-m-player-customize-options
p emacspeak-m-player-previous-track
g bury-buffer
r emacspeak-m-player-seek-relative
s emacspeak-m-player-scale-speed
```

t emacspeak-m-player-play-tracks-jump

u emacspeak-m-player-url

v emacspeak-m-player-volume-change

w emacspeak-m-player-write-clip

x emacspeak-m-player-pan

z emacspeak-m-player-add-autosat

{ emacspeak-m-player-half-speed

} emacspeak-m-player-double-speed

DEL emacspeak-m-player-reset-speed

<down> emacspeak-m-player-forward-1min

<end> emacspeak-m-player-end-of-track

<home> emacspeak-m-player-beginning-of-track

<left> emacspeak-m-player-backward-10s

<next> emacspeak-m-player-forward-10min

<prior> emacspeak-m-player-backward-10min

<right> emacspeak-m-player-forward-10s

<up> emacspeak-m-player-backward-1min

M-, emacspeak-m-player-set-clip-start

M-. emacspeak-m-player-set-clip-end

M-l emacspeak-m-player-load-playlist

In addition to any hooks its parent mode 'comint-mode' might have run, this mode runs the hook 'emacspeak-m-player-mode-hook', as the final or penultimate step during initialization.

12.115.2.44 emacspeak-m-player-mode-line

emacspeak-m-player-mode-line

Mode-line for M-Player buffers.

[Command]

12.115.2.45 emacspeak-m-player-next-track

${\tt emacspeak-m-player-next-track}$

Next track.

[Command]

12.115.2.46 emacspeak-m-player-pan

emacspeak-m-player-pan

Pan from left to right and back one step at a time.

[Command]

12.115.2.47 emacspeak-m-player-pause

emacspeak-m-player-pause

Pause or unpause.

[Command]

12.115.2.48 emacspeak-m-player-persist-process

emacspeak-m-player-persist-process (&optional name)

Persists m-player process instance by renaming its buffer.

[Command]

Optional interactive prefix arg prompts for name to use for player.

(fn &optional NAME)

12.115.2.49 emacspeak-m-player-play-rss

emacspeak-m-player-play-rss (rss-url)

[Command]

Play an RSS stream.

(fn RSS-URL)

12.115.2.50 emacspeak-m-player-play-tracks-jump

emacspeak-m-player-play-tracks-jump (step) Skip tracks.

[Command]

(fn STEP)

12.115.2.51 emacspeak-m-player-play-tree-up

 $\verb|emacspeak-m-player-play-tree-up| (step)$

[Command]

Move within the play tree.

(fn STEP)

12.115.2.52 emacspeak-m-player-pop-to-player

emacspeak-m-player-pop-to-player

[Command]

Pop to m-player buffer.

12.115.2.53 emacspeak-m-player-previous-track

 ${\tt emacspeak-m-player-previous-track}$

[Command]

Previous track.

12.115.2.54 emacspeak-m-player-quit

 $\begin{array}{c} {\tt emacspeak-m-player-quit} \\ {\tt Quit}. \end{array}$

[Command]

12.115.2.55 emacspeak-m-player-reset-options

emacspeak-m-player-reset-options Reset MPlayer options. [Command]

12.115.2.56 emacspeak-m-player-reset-speed

emacspeak-m-player-reset-speed Reset speed.

[Command]

12.115.2.57 emacspeak-m-player-restore-process

emacspeak-m-player-restore-process

[Command]

Restore emacspeak-m-player-process from current buffer. Check first if current buffer is in emacspeak-m-player-mode.

12.115.2.58 emacspeak-m-player-right-channel

emacspeak-m-player-right-channel

[Command]

Play on right channel.

12.115.2.59 emacspeak-m-player-scale-speed

emacspeak-m-player-scale-speed (factor)

[Command]

Scale speed by factor.

(fn FACTOR)

12.115.2.60 emacspeak-m-player-seek-absolute

emacspeak-m-player-seek-absolute (pos)

[Command]

Seek to absolute pos in seconds.

The time position can also be specified as HH:MM:SS.

(fn POS)

12.115.2.61 emacspeak-m-player-seek-percentage

emacspeak-m-player-seek-percentage (pos)

[Command]

Seek to absolute pos in percent.

(fn POS)

12.115.2.62 emacspeak-m-player-seek-relative

emacspeak-m-player-seek-relative (offset)

[Command]

Seek by offset from current position.

Time offset can be specified as a number of seconds, or as HH:MM:SS.

(fn OFFSET)

12.115.2.63 emacspeak-m-player-set-clip-end

${\tt emacspeak-m-player-set-clip-end}$

[Command]

Set end of clip marker.

12.115.2.64 emacspeak-m-player-set-clip-start

emacspeak-m-player-set-clip-start

[Command]

Set start of clip marker.

12.115.2.65 emacspeak-m-player-shuffle

emacspeak-m-player-shuffle

[Command]

С-е:

<fn> :

M-Player with shuffle turned on.

12.115.2.66 emacspeak-m-player-slave-command

emacspeak-m-player-slave-command (command)

[Command]

Dispatch slave command.

(fn COMMAND)

12.115.2.67 emacspeak-m-player-slower

emacspeak-m-player-slower

[Command]

Slow down playback.

12.115.2.68 emacspeak-m-player-stream-info

emacspeak-m-player-stream-info (&optional toggle-cue)

[Command]

Speak and display metadata.

Interactive prefix arg toggles automatic cueing of ICY info updates.

(fn &optional TOGGLE-CUE)

12.115.2.69 emacspeak-m-player-toggle-extrastereo

emacspeak-m-player-toggle-extrastereo

[Command]

Toggle application of extrastereo filter to all streams.

12.115.2.70 emacspeak-m-player-url

emacspeak-m-player-url (url &optional playlist-p)

[Command]

C-, u

C-x @ a u

Call emacspeak-m-player on URL.

(fn URL &optional PLAYLIST-P)

12.115.2.71 emacspeak-m-player-using-hrtf

emacspeak-m-player-using-hrtf

[Command]

C-; '

C-x @ h '

Add af resample=48000,hrtf to startup options.

This will work if the soundcard is set to 48000.

12.115.2.72 emacspeak-m-player-using-openal

emacspeak-m-player-using-openal (resource & optional play-list) [Command]

C-; ;

C-x @ h;

Use openal.

(fn RESOURCE & optional PLAY-LIST)

12.115.2.73 emacspeak-m-player-volume-change

emacspeak-m-player-volume-change (value) Set volume. [Command]

(fn VALUE)

12.115.2.74 emacspeak-m-player-volume-down

emacspeak-m-player-volume-down Volume down.

[Command]

12.115.2.75 emacspeak-m-player-volume-set

emacspeak-m-player-volume-set (&optional arg) Set Volume in steps from 1 to 9.

[Command]

(fn &optional ARG)

12.115.2.76 emacspeak-m-player-volume-up

emacspeak-m-player-volume-up Volume up. [Command]

12.115.2.77 emacspeak-m-player-write-clip

emacspeak-m-player-write-clip

[Command]

Invoke mp3splt to clip selected range in current file.

12.115.2.78 emacspeak-m-player-youtube-player

emacspeak-m-player-youtube-player (url &optional best)

[Command]

C-, y

C-x @ a y

Use youtube-dl and mplayer to stream audio from Youtube.

Default picks lowest quality —

Optional prefix arg 'best' chooses highest.

(fn URL & optional BEST)

[Command]

12.115.2.79 emacspeak-multimedia

emacspeak-multimedia С-е ; <fn> ; Start or control Emacspeak multimedia player. Controls media playback when already playing. key binding C-l ladspa RET emacspeak-m-player-load ESC Prefix Command SPC emacspeak-m-player-pause % emacspeak-m-player-display-percent (emacspeak-m-player-left-channel) emacspeak-m-player-right-channel + emacspeak-m-player-volume-up , emacspeak-m-player-backward-10s - emacspeak-m-player-volume-down . emacspeak-m-player-forward-10s / emacspeak-m-player-restore-process 1.. 9 emacspeak-m-player-volume-set ; emacspeak-m-player-pop-to-player < emacspeak-m-player-backward-1min</p> = emacspeak-m-player-volume-up > emacspeak-m-player-forward-1min ? emacspeak-m-player-display-position A emacspeak-m-player-amark-add C emacspeak-m-player-clear-filters E emacspeak-m-player-add-equalizer G emacspeak-m-player-seek-percentage L emacspeak-m-player-locate-media M emacspeak-m-player-display-metadata O emacspeak-m-player-reset-options P emacspeak-m-player-apply-reverb-preset Q emacspeak-m-player-quit R emacspeak-m-player-edit-reverb S emacspeak-m-player-amark-save [emacspeak-m-player-slower \ emacspeak-m-player-persist-process emacspeak-m-player-faster a emacspeak-m-player-add-autopan b emacspeak-wizards-view-buffers-filtered-by-m-player-mode c emacspeak-m-player-slave-command

d emacspeak-m-player-delete-filter e emacspeak-m-player-equalizer-preset f emacspeak-m-player-add-filter g emacspeak-m-player-seek-absolute i emacspeak-m-player-stream-info j emacspeak-m-player-amark-jump k emacspeak-m-player-quit l emacspeak-m-player-get-length m emacspeak-m-player-mode-line n emacspeak-m-player-next-track o emacspeak-m-player-customize-options p emacspeak-m-player-previous-track q bury-buffer r emacspeak-m-player-seek-relative s emacspeak-m-player-scale-speed t emacspeak-m-player-play-tracks-jump u emacspeak-m-player-url v emacspeak-m-player-volume-change w emacspeak-m-player-write-clip x emacspeak-m-player-pan z emacspeak-m-player-add-autosat { emacspeak-m-player-half-speed } emacspeak-m-player-double-speed DEL emacspeak-m-player-reset-speed <down> emacspeak-m-player-forward-1min <end> emacspeak-m-player-end-of-track <home> emacspeak-m-player-beginning-of-track <left> emacspeak-m-player-backward-10s <next> emacspeak-m-player-forward-10min <pri><pri><pri><pri>player-backward-10min <right> emacspeak-m-player-forward-10s <up> emacspeak-m-player-backward-1min M-, emacspeak-m-player-set-clip-start M-. emacspeak-m-player-set-clip-end

12.115.3 emacspeak-m-player Options

M-l emacspeak-m-player-load-playlist

User Option emacspeak-m-player-custom-filters Additional filters to apply to streams.

[Variable]

User Option emacspeak-m-player-program Media player program.

[Variable]

User Option emacspeak-media-location-bindings Map keys to launch MPlayer on a directory. [Variable]

12.116 emacspeak-magit

MAGIT == Git interface in Emacs git clone git://github.com/magit/magit.git

12.117 emacspeak-make-mode

This module speech enables make-mode

12.118 emacspeak-man

Provide additional advice to man-mode

12.118.1 Emacspeak-Man Commands

12.118.1.1 emacspeak-man-browse-man-page

emacspeak-man-browse-man-page

[Command]

Browse the man page –read it a paragraph at a time

12.118.1.2 emacspeak-man-speak-this-section

emacspeak-man-speak-this-section Speak current section [Command]

12.119 emacspeak-markdown

MARKDOWN == Light-weight markup. This module speech-enables markdown.el

12.120 emacspeak-maths

12.120.1 Setup

Do not try what follows until you have read js/node/README.org and successfully set up nvm (Node Version Manager) as described there.

12.120.2 Technical Overview

Spoken mathematics on the emacspeak audio desktop. Use a NodeJS based speech-rule-engine for Mathematics as the backend for processing mathematical markup. The result of this processing is an annotated S-expression that is rendered via Emacspeak's speech facilities. Annotations follow Aural CSS as implemented in Emacspeak, This allows us to map these expressions to aural properties supported by specific TTS engines.

12.120.3 Emacspeak-Maths Commands

12.120.3.1 emacspeak-maths-depth

emacspeak-maths-depth

[Command]

Move depth in current Math expression. (auto-generated)

12.120.3.2 emacspeak-maths-down

emacspeak-maths-down

[Command]

Move down in current Math expression. (auto-generated)

12.120.3.3 emacspeak-maths-enter

emacspeak-maths-enter (latex)

[Command]

Send a LaTeX expression to Maths server, guess based on context.

12.120.3.4 emacspeak-maths-enter-guess

emacspeak-maths-enter-guess

[Command]

Send the guessed LaTeX expression to Maths server.

12.120.3.5 emacspeak-maths-flush-output

emacspeak-maths-flush-output

[Command]

Flush client buffer if things go out of sync.

12.120.3.6 emacspeak-maths-left

emacspeak-maths-left

[Command]

Move left in current Math expression. (auto-generated)

12.120.3.7 emacspeak-maths-restart

emacspeak-maths-restart

[Command]

Restart Node math-server if running. Otherwise starts a new one.

12.120.3.8 emacspeak-maths-right

emacspeak-maths-right

[Command]

Move right in current Math expression. (auto-generated)

12.120.3.9 emacspeak-maths-root

emacspeak-maths-root

[Command]

Move root in current Math expression. (auto-generated)

12.120.3.10 emacspeak-maths-shutdown

emacspeak-maths-shutdown

[Command]

Shutdown client and server processes.

12.120.3.11 emacspeak-maths-speak-alt

emacspeak-maths-speak-alt

[Command]

Speak alt text as Maths.

For use on Wikipedia pages for example.

12.120.3.12 emacspeak-maths-spoken-mode

emacspeak-maths-spoken-mode

[Command]

Special mode for interacting with Spoken Math.

This mode is used by the special buffer that displays spoken math returned from the Node server.

This mode is similar to Emacs' 'view-mode'.

see the key-binding list at the end of this description.

Emacs online help facility to look up help on these commands.

key binding

[backward-page

] forward-page

h emacspeak-maths-left

j emacspeak-maths-down

k emacspeak-maths-up

l emacspeak-maths-right

In addition to any hooks its parent mode 'special-mode' might have run, this mode runs the hook 'emacspeak-maths-spoken-mode-hook', as the final or penultimate step during initialization.

12.120.3.13 emacspeak-maths-start

emacspeak-maths-start

[Command]

Start Maths server bridge.

12.120.3.14 emacspeak-maths-switch-to-output

emacspeak-maths-switch-to-output

[Command]

Switch to output buffer.

12.120.3.15 emacspeak-maths-up

emacspeak-maths-up

[Command]

Move up in current Math expression. (auto-generated)

12.121 emacspeak-message

advice for posting message commands

12.121.1 emacspeak-message Options

User Option emacspeak-message-punctuation-mode Pronunciation mode to use for message buffers.

[Variable]

12.122 emacspeak-metapost

Speech-enables metapost mode. metapost is a powerful drawing package typically installed as mpost by modern TeX installations.

12.123 emacspeak-midge

This module speech enables midge. Midge is a MIDI composer/editor tool. From the package README file: ; Midge, for midi generator, is a text to midi translator. ; It creates type 1 (ie multitrack) midi files from text ; descriptions of music. It is a single perl script, which ; does not require any additional modules. The package also provides a convenient emacs mode for editing and playing midge files. Midge's homepage is at: http://www.dmriley.demon.co.uk/code/midge/

12.124 emacspeak-mines

MINES == Minesweeper game in emacs. The game itself provides a fully keyboard driven interface. In addition, Emacspeak provides

12.124.1 Emacspeak-Mines Commands

12.124.1.1 emacspeak-mines-beginning-of-row

emacspeak-mines-beginning-of-row

[Command]

Move to beginning of row

12.124.1.2 emacspeak-mines-end-of-row

emacspeak-mines-end-of-row

[Command]

Move to end of row

12.124.1.3 emacspeak-mines-goto

emacspeak-mines-goto (index)

[Command]

Move to specified cell.

(fn INDEX)

12.124.1.4 emacspeak-mines-jump-to-uncovered-cell

$\verb|emacspeak-mines-jump-to-uncovered-cell| (from-beginning)$

[Command]

Jump to next uncovered cell. With interactive prefix-arg, jump to beginning of board before searching.

(fn FROM-BEGINNING)

12.124.1.5 emacspeak-mines-speak-board

${\tt emacspeak-mines-speak-board}$

[Command]

Speak the board.

12.124.1.6 emacspeak-mines-speak-cell

emacspeak-mines-speak-cell

[Command]

Speak current cell.

12.124.1.7 emacspeak-mines-speak-mark-count

emacspeak-mines-speak-mark-count

[Command]

Count and speak number of marks.

12.124.1.8 emacspeak-mines-speak-neighbors

emacspeak-mines-speak-neighbors

[Command]

Speak neighboring cells in sorted order.

12.124.1.9 emacspeak-mines-speak-uncovered-count

emacspeak-mines-speak-uncovered-count

[Command]

Speak number of uncovered cells.

12.125 emacspeak-mspools

Speech-enable mspools –a package that lets you monitor multiple maildrops

12.126 emacspeak-muggles

MUGGLES == Emacspeak spells for power-users. This module implements no new functionality — contrast with emacspeak-wizards. Instead, it uses package hydra to provide convenience key-bindings that access existing Emacspeak functionality.

12.126.1 Emacspeak-Muggles Commands

12.126.1.1 emacspeak-muggles-brightness/body

emacspeak-muggles-brightness/body

[Command]

<print>

Call the body in the "emacspeak-muggles-brightness" hydra.

```
"?":
       '(emacspeak-hydra-self-help "emacspeak-muggles-brightness")',
"s":
       'xbacklight-set',
"g":
       'xbacklight-get',
"t":
       'emacspeak-hydra-toggle-talkative',
"<print>":
             'xbacklight-black',
"0":
       'xbacklight-black',
"1":
       'xbacklight-white',
"d":
       'xbacklight-decrement',
"i":
      'xbacklight-increment',
```

```
"SPC": 'xbacklight-increment'
```

The body can be accessed via 'emacspeak-muggles-brightness/body'.

12.126.1.2 emacspeak-muggles-hideshow/body

emacspeak-muggles-hideshow/body

[Command]

```
C-, h
```

C-x @ a h

Call the body in the "emacspeak-muggles-hideshow" hydra.

The heads for the associated hydra are:

```
"?":
       '(emacspeak-hydra-self-help "emacspeak-muggles-hideshow")',
"h":
       'hs-hide-block',
"s":
       'hs-show-block',
       'hs-hide-all',
"H":
"S":
       'hs-show-all',
"a":
       'hs-show-all',
"]":
       'hs-hide-level',
      'hs-hide-initial-comment-block'
"i":
```

The body can be accessed via 'emacspeak-muggles-hideshow/body'.

12.126.1.3 emacspeak-muggles-ido-yank

emacspeak-muggles-ido-yank

[Command]

C-M-y

Pick what to yank using ido completion.

12.126.1.4 emacspeak-muggles-lispy-or-sp

```
emacspeak-muggles-lispy-or-sp
```

[Command]

Toggle between lispy and smartparens.

12.126.1.5 emacspeak-muggles-maths-navigator/body

emacspeak-muggles-maths-navigator/body

[Command]

s-SPC

Call the body in the "emacspeak-muggles-maths-navigator" hydra.

```
"o": 'emacspeak-maths-switch-to-output',
"RET": 'emacspeak-maths-enter-guess',
"SPC": 'emacspeak-maths-enter',
"a": 'emacspeak-maths-speak-alt',
```

```
"d": 'emacspeak-maths-depth',
"r": 'emacspeak-maths-root',
"<up>": 'emacspeak-maths-up',
"<down>": 'emacspeak-maths-down',
"<left>": 'emacspeak-maths-left',
"<right>": 'emacspeak-maths-right'
```

The body can be accessed via 'emacspeak-muggles-maths-navigator/body'.

12.126.1.6 emacspeak-muggles-navigate/body

emacspeak-muggles-navigate/body

[Command]

s-n

Call the body in the "emacspeak-muggles-navigate" hydra.

The heads for the associated hydra are:

```
"?":
       '(emacspeak-hydra-self-help "emacspeak-muggles-navigate")',
"s":
       'emacspeak-hydra-toggle-talkative',
"n":
       'next-line',
"p":
       'previous-line',
"f":
       'forward-char',
"b":
       'backward-char',
"a":
       'beginning-of-line',
"e":
       'move-end-of-line',
"j":
       'next-line',
"k":
       'previous-line',
"v":
       'scroll-up-command',
"V":
       'scroll-down-command',
"]":
       'recenter-top-bottom',
"<":
       'beginning-of-buffer',
">":
       'end-of-buffer'
```

The body can be accessed via 'emacspeak-muggles-navigate/body'.

12.126.1.7 emacspeak-muggles-org-nav/body

emacspeak-muggles-org-nav/body

[Command]

Call the body in the "emacspeak-muggles-org-nav" hydra.

```
"?": '(emacspeak-hydra-self-help "emacspeak-muggles-org-nav")',
"SPC": 'emacspeak-outline-speak-this-heading',
"n": 'emacspeak-outline-speak-next-heading',
"p": 'emacspeak-outline-speak-previous-heading',
"f": 'org-forward-heading-same-level',
```

```
"b": 'org-backward-heading-same-level',
"u": 'outline-up-heading',
"g": 'org-goto'
```

The body can be accessed via 'emacspeak-muggles-org-nav/body'.

12.126.1.8 emacspeak-muggles-org-table/body

emacspeak-muggles-org-table/body

[Command]

Call the body in the "emacspeak-muggles-org-table" hydra.

The heads for the associated hydra are:

```
11?11:
       '(emacspeak-hydra-self-help "emacspeak-muggles-org-table")',
"j":
      'org-table-next-row',
"k":
       'org-table-previous-row',
"h":
       'org-table-previous-field',
"]":
      'org-table-next-field',
"SPC":
          'emacspeak-org-table-speak-current-element',
      'emacspeak-org-table-speak-coordinates',
".":
"b":
       'emacspeak-org-table-speak-both-headers-and-element',
"r":
       'emacspeak-org-table-speak-row-header-and-element',
"c":
       'emacspeak-org-table-speak-column-header-and-element'
```

The body can be accessed via 'emacspeak-muggles-org-table/body'.

12.126.1.9 emacspeak-muggles-toggle-option/body

```
emacspeak-muggles-toggle-option/body
```

[Command]

C-c o

Call the body in the "emacspeak-muggles-toggle-option" hydra.

```
"?":
       '(emacspeak-hydra-self-help "emacspeak-muggles-toggle-option")',
"C-f":
         '(call-interactively #'folding-mode)',
"C":
        '(call-interactively #'flycheck-mode)',
"F":
       '(call-interactively #'flyspell-mode)',
"a":
       '(call-interactively #'abbrev-mode)',
       '(call-interactively #'toggle-debug-on-error)',
"d":
"f":
       '(call-interactively #'auto-fill-mode)',
"e":
       '(call-interactively #'emacspeak-m-player-toggle-extrastereo)',
"g":
       '(call-interactively #'toggle-debug-on-quit)',
"h":
       '(setq hydra-is-helpful (not hydra-is-helpful))',
"i":
       '(call-interactively #'ido-everywhere)',
"I":
       '(call-interactively #'flx-ido-mode)',
"p":
       'emacspeak-muggles-lispy-or-sp',
```

```
"t": '(call-interactively #'toggle-truncate-lines)',
"u": '(call-interactively #'ido-ubiquitous-mode)',
"q": 'nil'
```

The body can be accessed via 'emacspeak-muggles-toggle-option/body'.

12.126.1.10 emacspeak-muggles-undo-only/undo-redo/body

emacspeak-muggles-undo-only/undo-redo/body

[Command]

C-/

Call the body in the "emacspeak-muggles-undo-only/undo-redo" hydra.

The heads for the associated hydra are:

```
"?": '(emacspeak-hydra-self-help "emacspeak-muggles-undo-only/undo-redo")',
"/": 'undo-only',
"\": 'undo-redo'
```

The body can be accessed via 'emacspeak-muggles-undo-only/undo-redo/body'.

12.126.1.11 emacspeak-muggles-yank-pop/body

emacspeak-muggles-yank-pop/body

[Command]

Call the body in the "emacspeak-muggles-yank-pop" hydra.

The heads for the associated hydra are:

```
"?": '(emacspeak-hydra-self-help "emacspeak-muggles-yank-pop")',
"C-y": 'yank',
"M-y": 'yank-pop',
"y": '(funcall-interactively #'yank-pop 1)',
"Y": '(funcall-interactively #'yank-pop -1)',
"i": 'emacspeak-muggles-ido-yank',
"l": 'browse-kill-ring'
```

The body can be accessed via 'emacspeak-muggles-yank-pop/body'.

12.127 emacspeak-muse

Speech enable Muse

12.128 emacspeak-navi-mode

NAVI-MODE == Remote control for buffer navigation

12.129 emacspeak-net-utils

This module speech enables net-utils

12.130 emacspeak-newsticker

Newsticker provides a continuously updating newsticker using RSS Provides functionality similar to amphetadesk –but in pure elisp

12.131 emacspeak-nov

NOV == Yet Another EPub Reader Package nov.el is an alternative to Emacspeak's built-in EPub reader. This module speech-enables nov.el In addition, opening an epub using nov results in directory-specific settings being loaded from file emacspeak-speak-directory-settings — That file can set book-specific settings such as speech-rate and punctuation-mode among others.

12.132 emacspeak-nxml

nxml-mode is a new XML mode for emacs by James Clark. Package nxml is available from the Emacs package archive.

12.132.1 Emacspeak-Nxml Commands

12.132.1.1 emacspeak-nxml-summarize-outline

emacspeak-nxml-summarize-outline

[Command]

Intelligent spoken display of current outline entry.

12.133 emacspeak-ocr

This module defines Emacspeak front-end to OCR. This module assumes that sane is installed and working for image acquisition, and that there is an OCR engine that can take acquired images and produce text.

12.133.1 Emacspeak-Ocr Commands

12.133.1.1 emacspeak-ocr

emacspeak-ocr

[Command]

С-е С-о

<fn> C-o

An OCR front-end for the Emacspeak desktop.

Page image is acquired using tools from the SANE package. The acquired image is run through the OCR engine if one is available, and the results placed in a buffer that is suitable for browsing the results.

For detailed help, invoke command emacspeak-ocr bound to C-e C-o to launch emacspeak-ocr-mode, and press '?' to display mode-specific help for emacspeak-ocr-mode.

12.133.1.2 emacspeak-ocr-backward-page

emacspeak-ocr-backward-page (&optional count-ignored)

[Command]

Like backward page, but tracks page number of current document.

(fn &optional COUNT-IGNORED)

12.133.1.3 emacspeak-ocr-customize

emacspeak-ocr-customize

[Command]

Customize OCR settings.

12.133.1.4 emacspeak-ocr-flipflop-and-recognize-image

emacspeak-ocr-flipflop-and-recognize-image

[Command]

Run OCR engine on current image after flip-flopping it.

Useful if you've scanned a page upside down and are using an engine that does not automatically flip the image for you.

You need the imagemagik family of tools — we use mogrify to transform the image. Prompts for image file if file corresponding to the expected 'current page' is not found.

12.133.1.5 emacspeak-ocr-forward-page

emacspeak-ocr-forward-page (&optional count-ignored)

[Command]

Like forward page, but tracks page number of current document.

(fn &optional COUNT-IGNORED)

12.133.1.6 emacspeak-ocr-mode

emacspeak-ocr-mode

[Command]

An OCR front-end for the Emacspeak desktop.

Pre-requisites:

- 1) A working scanner back-end like SANE on Linux.
- 2) An OCR engine.

1: Make sure your scanner back-end works, and that you have the utilities to scan a document and acquire an image as a tiff file. Then set variable emacspeak-ocr-scan-image-program to point at this utility. By default, this is set to 'scanimage' which is the image scanning utility provided by SANE.

By default, this front-end attempts to compress the acquired tiff image; make sure you have a utility like tiffcp.

Variable emacspeak-ocr-compress-image is set to 'tiffcp' by default; if you use something else, you should customize this variable.

2: Next, make sure you have an OCR engine installed and working. By default this front-end assumes that OCR is available as /usr/bin/ocr.

Once you have ensured that acquiring an image and applying OCR to it work independently of Emacs, you can use this Emacspeak front-end to enable easy OCR access from within Emacspeak.

The Emacspeak OCR front-end is launched by command emacspeak-ocr bound to C-e C-o.

This command switches to a special buffer that has OCR commands bounds to single keystrokes—see the key-binding list at the end of this description. Use Emacs online help facility to look up help on these commands.

emacspeak-ocr-mode provides the necessary functionality to scan, OCR, read and save documents. By default, scanned images and the resulting text are saved under directory ~/ocr; see variable emacspeak-ocr-working-directory. Invoking command emacspeak-ocr-open-working-directory bound to M-x emacspeak-ocr-open-working-directory will open this directory.

By default, the document being scanned is named 'untitled'. You can name the document by using command emacspeak-ocr-name-document bound to M-x emacspeak-ocr-name-document. The document name is used in constructing the name of the image and text files.

Key Bindings:

See key binding

RET emacspeak-ocr-scan-and-recognize SPC emacspeak-ocr-read-current-page

1 .. 9 emacspeak-ocr-page

? describe-mode

 ${\bf C}$ emacspeak-ocr-set-compress-image-options

I emacspeak-ocr-set-scan-image-options

[emacspeak-ocr-backward-page

emacspeak-ocr-forward-page

- c emacspeak-ocr-customize
- d emacspeak-ocr-open-working-directory
- f emacspeak-ocr-flipflop-and-recognize-image
- i emacspeak-ocr-scan-image
- j emacspeak-ocr-scan-photo
- n emacspeak-ocr-name-document
- o emacspeak-ocr-recognize-image
- p emacspeak-ocr-page
- q bury-buffer
- s emacspeak-ocr-save-current-page
- w emacspeak-ocr-write-document

.

In addition to any hooks its parent mode 'text-mode' might have run, this mode runs the hook 'emacspeak-ocr-mode-hook', as the final or penultimate step during initialization.

12.133.1.7 emacspeak-ocr-name-document

emacspeak-ocr-name-document (name)

[Command]

Name document being scanned in the current OCR buffer. Pick a short but meaningful name.

(fn NAME)

12.133.1.8 emacspeak-ocr-open-working-directory

emacspeak-ocr-open-working-directory

[Command]

Launch dired on OCR working directory.

12.133.1.9 emacspeak-ocr-page

emacspeak-ocr-page

[Command]

Move to specified page.

12.133.1.10 emacspeak-ocr-read-current-page

emacspeak-ocr-read-current-page

[Command]

Speaks current page.

12.133.1.11 emacspeak-ocr-recognize-image

emacspeak-ocr-recognize-image

[Command]

Run OCR engine on current image.

Prompts for image file if file corresponding to the expected 'current page' is not found.

12.133.1.12 emacspeak-ocr-save-current-page

emacspeak-ocr-save-current-page

[Command]

Writes out recognized text from current page to an appropriately named file.

12.133.1.13 emacspeak-ocr-scan-and-recognize

emacspeak-ocr-scan-and-recognize

[Command]

Scan in a page and run OCR engine on it.

Use this command once you've verified that the separate steps of acquiring an image and running the OCR engine work correctly by themselves.

12.133.1.14 emacspeak-ocr-scan-image

emacspeak-ocr-scan-image

[Command]

Acquire page image.

12.133.1.15 emacspeak-ocr-scan-photo

emacspeak-ocr-scan-photo (&optional metadata)

[Command]

Scan in a photograph.

The scanned image is converted to JPEG.

(fn &optional METADATA)

12.133.1.16 emacspeak-ocr-set-compress-image-options

emacspeak-ocr-set-compress-image-options (setting)

[Command]

Interactively update image compression options.

Prompts with current setting in the minibuffer.

Setting persists for current Emacs session.

(fn SETTING)

12.133.1.17 emacspeak-ocr-set-scan-image-options

emacspeak-ocr-set-scan-image-options (setting)

[Command]

Interactively update scan image options.

Prompts with current setting in the minibuffer.

Setting persists for current Emacs session.

(fn SETTING)

12.133.1.18 emacspeak-ocr-write-document

emacspeak-ocr-write-document

[Command]

Writes out recognized text from all pages in current document.

12.133.2 emacspeak-ocr Options

User Option emacspeak-ocr-compress-image [Variable] Command used to compress the scanned tiff file.

User Option emacspeak-ocr-compress-image-options [Variable] Options used for compressing tiff image.

User Option emacspeak-ocr-compress-photo-options [Variable] Options used when created JPEG from scanned photographs.

User Option emacspeak-ocr-engine [Variable]
OCR engine to process acquired image.

User Option emacspeak-ocr-engine-options [Variable]
Command line options to pass to OCR engine.

User Option emacspeak-ocr-image-extension [Variable] Filename extension used for acquired image.

User Option emacspeak-ocr-jpeg-metadata-writer [Variable]
Program to add metadata to JPEG files.

User Option emacspeak-ocr-keep-uncompressed-image [Variable]
If set to T, uncompressed image is not removed.

User Option emacspeak-ocr-photo-compress [Variable]
Program to create JPEG compressed images.

User Option emacspeak-ocr-scan-image
Name of image acquisition program.

[Variable]

User Option emacspeak-ocr-scan-image-options [Variable] Command line options to pass to image acquisition program.

User Option emacspeak-ocr-scan-photo-options [Variable] Options used when scanning in photographs.

User Option emacspeak-ocr-working-directory

Directory where images and OCR results will be placed.

[Variable]

12.134 emacspeak-org

Speech-enable org — Org allows you to keep organized notes and todo lists. Homepage: http://www.astro.uva.nl/~dominik/Tools/org/ or http://orgmode.org/

12.134.1 Emacspeak-Org Commands

12.134.1.1 emacspeak-org-capture-link

emacspeak-org-capture-link

[Command]

C-; h

C-x @ h h

Capture hyperlink to current context.

To use this command, first do 'customize-variable' 'org-capture-template' and assign letter 'h' to a template that creates the hyperlink on capture.

12.134.1.2 emacspeak-org-popup-input

emacspeak-org-popup-input

[Command]

Pops up an org input area.

12.134.1.3 emacspeak-org-popup-input-buffer

emacspeak-org-popup-input-buffer (mode)

[Command]

Provide an input buffer in a specified mode.

(fn MODE)

12.134.1.4 emacspeak-org-table-speak-both-headers-and-element

emacspeak-org-table-speak-both-headers-and-element echoes both row and col headers.

[Command]

12.134.1.5 emacspeak-org-table-speak-column-header

emacspeak-org-table-speak-column-header

[Command]

echoes column header

12.134.1.6 emacspeak-org-table-speak-column-header-and-element

emacspeak-org-table-speak-column-header-and-element echoes col header and element

[Command]

12.134.1.7 emacspeak-org-table-speak-coordinates

emacspeak-org-table-speak-coordinates

[Command]

echoes coordinates

12.134.1.8 emacspeak-org-table-speak-current-element

emacspeak-org-table-speak-current-element

[Command]

echoes current table element

12.134.1.9 emacspeak-org-table-speak-row-header

emacspeak-org-table-speak-row-header

[Command]

echoes row header

12.134.1.10 emacspeak-org-table-speak-row-header-and-element

emacspeak-org-table-speak-row-header-and-element

[Command]

echoes row header and element

12.134.2 emacspeak-org Options

User Option emacspeak-org-table-after-movement-function
The function to call after moving in a table

[Variable]

12.135 emacspeak-orgalist

Speech-enable orgalist — create org-like lists everywhere.

12.136 emacspeak-origami

ORIGAMI == One More Flexible Folding Mechanism This module speech-enables origamimode.

12.137 emacspeak-outline

Provide additional advice to outline-mode

12.137.1 Emacspeak-Outline Commands

12.137.1.1 emacspeak-outline-speak-backward-heading

emacspeak-outline-speak-backward-heading

[Command]

Analogous to outline-backward-same-level except that the outline section is spoken

12.137.1.2 emacspeak-outline-speak-forward-heading

emacspeak-outline-speak-forward-heading

[Command]

Analogous to outline-forward-same-level, except that the outline section is spoken

12.137.1.3 emacspeak-outline-speak-next-heading

emacspeak-outline-speak-next-heading

[Command]

Analogous to outline-next-visible-heading, except that the outline section is spoken

12.137.1.4 emacspeak-outline-speak-previous-heading

emacspeak-outline-speak-previous-heading

[Command]

Analogous to outline-previous-visible-heading, except that the outline section is spoken

12.137.1.5 emacspeak-outline-speak-this-heading

emacspeak-outline-speak-this-heading

[Command]

Speak current outline section starting from point

12.138 emacspeak-package

PACKAGE == package.el Manage Emacs packages. This module speech-enables package.el with a few convenience commands.

12.138.1 Emacspeak-Package Commands

12.138.1.1 emacspeak-package-next-line

emacspeak-package-next-line

[Command]

Move to next line and speak it.

12.138.1.2 emacspeak-package-previous-line

emacspeak-package-previous-line

[Command]

Move to next line and speak it.

12.138.1.3 emacspeak-package-summarize-line

emacspeak-package-summarize-line

[Command]

Succinct Summary.

12.139 emacspeak-paradox

PARADOX == paradox.el Improved package management interface Manage Emacs packages. This module speech-enables paradox.el with a few convenience commands.

12.139.1 Emacspeak-Paradox Commands

12.139.1.1 emacspeak-paradox-summarize-line

emacspeak-paradox-summarize-line Succinct Summary.

[Command]

12.140 emacspeak-perl

Provide additional advice to perl-mode

12.141 emacspeak-pianobar

12.141.1 PIANOBAR == Pandora Client for Emacs

12.141.2 Emacspeak-Pianobar Commands

12.141.2.1 emacspeak-pianobar

emacspeak-pianobar

[Command]

С-е '

<fn> '

Start or control Emacspeak Pianobar player.

12.141.2.2 emacspeak-pianobar-command

emacspeak-pianobar-command (key)

[Command]

Invoke Pianobar commands.

(fn KEY)

12.141.2.3 emacspeak-pianobar-electric-mode-toggle

emacspeak-pianobar-electric-mode-toggle

[Command]

Toggle electric mode in pianobar buffer.

If electric mode is on, keystrokes invoke pianobar commands directly.

12.141.2.4 emacspeak-pianobar-next-preset

emacspeak-pianobar-next-preset

[Command]

Switch to next preset.

12.141.2.5 emacspeak-pianobar-previous-preset

emacspeak-pianobar-previous-preset

[Command]

Switch to previous preset.

12.141.2.6 emacspeak-pianobar-send-raw

emacspeak-pianobar-send-raw (string)

[Command]

Send raw string with newline added to pianobar.

(fn STRING)

12.141.2.7 emacspeak-pianobar-switch-to-preset

${\tt emacspeak-pianobar-switch-to-preset}$

[Command]

Switch to one of the presets.

12.141.2.8 emacspeak-pianobar-volume-down

emacspeak-pianobar-volume-down

[Command]

Decrease volume

12.141.2.9 emacspeak-pianobar-volume-up

emacspeak-pianobar-volume-up

[Command]

Increase volume

12.142 emacspeak-popup

POPUP == popup.el from MELPA

12.143 emacspeak-proced

PROCED == Process Editor A new Task Manager for Emacs. Proced is part of emacs 23.

12.143.1 Emacspeak-Proced Commands

12.143.1.1 emacspeak-proced-jump-to-process

emacspeak-proced-jump-to-process (name) Jump to process by name.

[Command]

(fn NAME)

12.143.1.2 emacspeak-proced-next-field

emacspeak-proced-next-field Navigate to next field. [Command]

12.143.1.3 emacspeak-proced-next-line

emacspeak-proced-next-line

[Command]

Move to next line and speak a summary.

12.143.1.4 emacspeak-proced-previous-field

emacspeak-proced-previous-field Navigate to previous field. [Command]

12.143.1.5 emacspeak-proced-previous-line

emacspeak-proced-previous-line

[Command]

Move to next line and speak a summary.

12.143.1.6 emacspeak-proced-speak-args

 ${\tt emacspeak-proced-speak-args}$

[Command]

Speak command invocation for this process.

12.143.1.7 emacspeak-proced-speak-field

emacspeak-proced-speak-field (field-name)

[Command]

Speak value of specified field in current line.

(fn FIELD-NAME)

12.143.1.8 emacspeak-proced-speak-that-field

 ${\tt emacspeak-proced-speak-that-field}$

[Command]

Speak desired field via single keystroke.

12.143.1.9 emacspeak-proced-speak-this-field

emacspeak-proced-speak-this-field (&optional position)

[Command]

Speak field at specified column — defaults to current column.

(fn &optional POSITION)

12.144 emacspeak-project

Speech-enable project.el

12.145 emacspeak-projectile

PROJECTILE == 'M-x package-install projectile'. Project management in Emacs.

12.146 emacspeak-pronounce

This module implements user customizable pronunciation dictionaries for emacspeak. Custom pronunciations can be defined per file, per directory and/or per major mode. Emacspeak maintains a persistent user dictionary upon request and loads these in new emacspeak sessions. This module implements the user interface to the custom dictionary as well as providing the internal API used by the rest of emacspeak in using the dictionary. Algorithm:

The persistent dictionary is a hash table where the hash keys are filenames, directory names, or major-mode names. The hash values are association lists defining the dictionary. Users of this module can retrieve a dictionary made up of all applicable association lists for a given file.

12.146.1 Emacspeak-Pronounce Commands

12.146.1.1 emacspeak-pronounce-clear-dictionaries

emacspeak-pronounce-clear-dictionaries

[Command]

Clear all current pronunciation dictionaries.

12.146.1.2 emacspeak-pronounce-define-local-pronunciation

emacspeak-pronounce-define-local-pronunciation (word pron)

[Command]

Define buffer local pronunciation.

Argument 'word' specified the word to be pronounced.

Argument 'pron' specifies the new pronunciation.

(fn WORD PRON)

12.146.1.3 emacspeak-pronounce-define-pronunciation

emacspeak-pronounce-define-pronunciation

[Command]

Interactively define entries in the pronunciation dictionaries.

Default term to define is delimited by region.

First loads any persistent dictionaries if not already loaded.

12.146.1.4 emacspeak-pronounce-define-template-pronunciation

emacspeak-pronounce-define-template-pronunciation

[Command]

Interactively define template entries in the pronunciation dictionaries.

Default term to define is delimited by region.

First loads any persistent dictionaries if not already loaded.

12.146.1.5 emacspeak-pronounce-dispatch

emacspeak-pronounce-dispatch

[Command]

C-e M-d

< fn > M-d

Provides the user interface front-end to Emacspeak's pronunciation dictionaries.

12.146.1.6 emacspeak-pronounce-edit-pronunciations

emacspeak-pronounce-edit-pronunciations (key)

[Command]

Prompt for and launch a pronunciation editor on the specified pronunciation dictionary key.

(fn KEY)

12.146.1.7 emacspeak-pronounce-load-dictionaries

emacspeak-pronounce-load-dictionaries (&optional filename)

[Command]

Load pronunciation dictionaries.

Optional argument FILENAME specifies the dictionary file,

Default is emacspeak-pronounce-dictionaries-file.

(fn & optional FILENAME)

12.146.1.8 emacspeak-pronounce-refresh-pronunciations

emacspeak-pronounce-refresh-pronunciations

[Command]

Refresh pronunciation table for current buffer.

Activates pronunciation dictionaries if not already active.

12.146.1.9 emacspeak-pronounce-save-dictionaries

emacspeak-pronounce-save-dictionaries

[Command]

Saves pronunciation dictionaries.

12.146.1.10 emacspeak-pronounce-toggle-use-of-dictionaries

emacspeak-pronounce-toggle-use-of-dictionaries (&optional

[Command]

Toggle use of pronunciation dictionaries in current buffer.

Pronunciations can be defined on a per file, per directory and/or

per mode basis. Pronunciations are activated on a per buffer

basis. Turning on the use of pronunciation dictionaries results in emacspeak composing a pronunciation table based on the currently defined pronunciation dictionaries. After this, the pronunciations will be applied whenever text in the buffer is spoken. Optional argument state can be used from Lisp programs to explicitly turn pronunciations on or off.

(fn &optional STATE)

12.146.2 emacspeak-pronounce Options

User Option [Variable]

emacspeak-pronounce-common-xml-namespace-uri-pronunciations Pronunciations for well known namespace URIs.

User Option emacspeak-pronounce-dictionaries-file File that holds emacspeak pronunciations.

[Variable]

User Option emacspeak-pronounce-internet-smileys-pronunciations [Variable] Pronunciation dictionary used in all instant messenger and IRC chat modes. See http://www.charm.net/~kmarsh/smiley.html.

12.147 emacspeak-py

This speech-enables python-mode available on sourceforge and ELPA

12.148 emacspeak-pydoc

PYDOC == Python Documentation Viewer

12.149 emacspeak-python

This speech-enables python-mode bundled with Emacs

12.150 emacspeak-racer

RACER == Rust documentation and completion

12.151 emacspeak-racket

racket-mode implements an IDE for racket, a dialect of scheme.

12.152 emacspeak-re-builder

Speech-enable re-builder. Will be used to advantage in efficiently setting up outline regexp wizards

12.153 emacspeak-reftex

This module speech-enables refteex – reftex is a minor mode that makes navigation of TeX documents possible via a table of contents buffer.

12.154 emacspeak-related

RELATED == Switch among related buffers (melpa). Speech-enable interactive commands.

12.155 emacspeak-rg

RG == Emacs front-end to ripgrep (rg).

12.156 emacspeak-rmail

emacspeak extensions to rmail

12.156.1 Emacspeak-Rmail Commands

12.156.1.1 emacspeak-rmail-speak-current-message-labels

emacspeak-rmail-speak-current-message-labels Speak labels of current message [Command]

12.156.1.2 emacspeak-rmail-summarize-current-message

emacspeak-rmail-summarize-current-message Summarize current message [Command]

12.157 emacspeak-rpm-spec

speech-enable rpm-spec-mode –part of Emacs 21 on RH 7.3

12.158 emacspeak-rst

RST == rst-mode for editing rst text files. This module speech-enables rst-mode.

12.159 emacspeak-ruby

Provide additional advice to Ruby mode

12.160 emacspeak-rust-mode

Speech-enable rust-mode

12.161 emacspeak-sage

Speech-enable sage-shell-mode. This is a major mode for interacting with sage, http://www.sagemath.org/ An Open-source Mathematical Software System.

12.161.1 Emacspeak-Sage Commands

12.161.1.1 emacspeak-sage-describe-symbol

emacspeak-sage-describe-symbol (s)

[Command]

Describe Sage symbol at point.

(fn S)

12.161.1.2 emacspeak-sage-get-output

emacspeak-sage-get-output

[Command]

Return most recent Sage output

12.161.1.3 emacspeak-sage-get-output-as-latex

emacspeak-sage-get-output-as-latex

[Command]

Return most recent Sage output as LaTeX markup.

12.161.1.4 emacspeak-sage-speak-output

emacspeak-sage-speak-output

[Command]

Speak last output from Sage.

12.162 emacspeak-sdcv

SDCV == Stardict Dictionary Interface This module sets up Emacspeak for use with sdcv. You need to have command-line sdcv installed. You can install additional stardict dictionaries, see https://wiki.archlinux.org/index.php/sdcv This module sets up Emacs module sdcv to use all the installed dictionaries found on the system.

12.163 emacspeak-selectrum

 ${\tt SELECTRUM} == {\tt Flexibly \ select \ from \ lists}.$

12.164 emacspeak-ses

ses implements a simple spread sheet and is part of Emacs This module speech-enables ses

12.164.1 Emacspeak-Ses Commands

12.164.1.1 emacspeak-ses-backward-column-and-summarize

 ${\tt emacspeak-ses-backward-column-and-summarize}$

[Command]

Move to previous column and summarize.

12.164.1.2 emacspeak-ses-backward-row-and-summarize

emacspeak-ses-backward-row-and-summarize

[Command]

Move to previous row and summarize.

12.164.1.3 emacspeak-ses-forward-column-and-summarize

 ${\tt emacspeak-ses-forward-column-and-summarize}$

[Command]

Move to next column and summarize.

12.164.1.4 emacspeak-ses-forward-row-and-summarize

 ${\tt emacspeak-ses-forward-row-and-summarize}$

[Command]

Move to next row and summarize.

12.164.1.5 emacspeak-ses-summarize-cell

emacspeak-ses-summarize-cell (cell-name) Summarize specified cell. [Command]

(fn CELL-NAME)

12.164.1.6 emacspeak-ses-summarize-current-cell

emacspeak-ses-summarize-current-cell (&rest ignore)

[Command]

Summarize current cell.

(fn &rest IGNORE)

12.165 emacspeak-setup

Entry point for Emacspeak.

12.166 emacspeak-sgml-mode

emacspeak extensions to sgml mode

12.167 emacspeak-sh-script

This module speech-enables sh-script.el

12.168 emacspeak-shx

SHX == Shell Extras For emacs

12.169 emacspeak-slime

SLIME == Superior Lisp Interaction Mode For Emacs Slime is a powerful IDE for developing in Common Lisp and Clojure. It's similar but more modern than package ILisp that I used as a graduate student when developing AsTeR.

12.170 emacspeak-smart-window

SMART-WINDOW == Smart Window switching for Emacs

12.171 emacspeak-smartparens

SMARTPARENS == Automatic insertion, wrapping and paredit-like navigation with user defined pairs this module speech-enables smartparens. Insertion of a matching delimiter is indicated by a short auditory icon. Structured navigation speaks the current line with the position of point aurally highlighted.

12.172 emacspeak-solitaire

Auditory interface to solitaire

12.172.1 Emacspeak-Solitaire Commands

12.172.1.1 emacspeak-solitaire-show-column

 ${\tt emacspeak-solitaire-show-column}$

[Command]

Audio format current column.

12.172.1.2 emacspeak-solitaire-show-row

emacspeak-solitaire-show-row Audio format current row. [Command]

12.172.1.3 emacspeak-solitaire-speak-coordinates

emacspeak-solitaire-speak-coordinates Speak coordinates of current position [Command]

12.172.1.4 emacspeak-solitaire-speak-row

emacspeak-solitaire-speak-row Speak current row.

[Command]

12.172.1.5 emacspeak-solitaire-speak-stones

emacspeak-solitaire-speak-stones Speak number of stones remaining. [Command]

12.173 emacspeak-sounds

This module provides the interface for generating auditory icons in emacspeak.

12.173.1 Emacspeak-Sounds Commands

12.173.1.1 emacspeak-audio-setup

 $\verb|emacspeak-audio-setup| (\&optional| prefix)$

[Command]

```
C-e (
<fn> (
Call amixer command.

(fn &optional PREFIX)
```

12.173.1.2 emacspeak-sounds-select-theme

 ${\tt emacspeak-sounds-select-theme}\ (theme)$

[Command]

С-е)

<fn>)

Select theme for auditory icons.

(fn THEME)

12.173.1.3 emacspeak-toggle-auditory-icons

emacspeak-toggle-auditory-icons (&optional prefix)

[Command]

С-е С-а

<fn> C-a

Toggle use of auditory icons.

Optional interactive PREFIX arg toggles global value.

(fn &optional PREFIX)

12.173.2 emacspeak-sounds Options

User Option emacspeak-play-args

[Variable]

Set this to nil if using paplay from pulseaudio.

User Option emacspeak-play-program

[Variable]

Play program.

User Option emacspeak-sounds-default-theme

Default theme for auditory icons.

[Variable]

12.174 emacspeak-speak

This module defines the core speech services used by emacspeak. It depends on the speech server interface modules It protects other parts of emacspeak from becoming dependent on the speech server modules

12.174.1 Emacspeak-Speak Commands

12.174.1.1 emacspeak—choose-completion

emacspeak--choose-completion

[Command]

Choose the completion at point.

12.174.1.2 emacspeak-persist-variable

emacspeak--persist-variable (var file)

[Command]

Persist variable 'var' to file 'FILE'.

Arranges for 'VAR' to be restored when 'file' is loaded.

(fn VAR FILE)

12.174.1.3 emacspeak-blink-matching-open

emacspeak-blink-matching-open

[Command]

Move cursor momentarily to the beginning of the sexp before point. Also display match context in minibuffer.

12.174.1.4 emacspeak-completions-move-to-completion-group

emacspeak-completions-move-to-completion-group

[Command]

Move to group of choices beginning with character last typed. If no such group exists, then we try to search for that char, or dont move.

12.174.1.5 emacspeak-execute-repeatedly

emacspeak-execute-repeatedly (command)

[Command]

Execute COMMAND repeatedly.

(fn COMMAND)

12.174.1.6 emacspeak-goto-percent

emacspeak-goto-percent (percent)

[Command]

С-е М-%

<fn> M-%

Move to end PERCENT of buffer like in View mode.

Display is centered at point.

Also set the mark at the position where point was.

(fn PERCENT)

12.174.1.7 emacspeak-mark-backward-mark

emacspeak-mark-backward-mark

[Command]

C-<up>

Cycle backward through the mark ring.

To cycle forward, use pop-to-mark-command bound to C-<down>

12.174.1.8 emacspeak-minibuffer-choose-completion

${\tt emacspeak-minibuffer-choose-completion}$

[Command]

Choose current completion.

12.174.1.9 emacspeak-minibuffer-next-completion

emacspeak-minibuffer-next-completion

[Command]

Move to next available minibuffer completion.

12.174.1.10 emacspeak-minibuffer-previous-completion

emacspeak-minibuffer-previous-completion

[Command]

Move to previous available minibuffer completion.

12.174.1.11 emacspeak-open-info

emacspeak-open-info

[Command]

C-e TAB

<fn> TAB

Open Emacspeak Info Manual.

12.174.1.12 emacspeak-owindow-next-line

emacspeak-owindow-next-line (count)

[Command]

ESC <down>

Move to the next line in the other window and speak it.

Numeric prefix arg COUNT can specify number of lines to move.

(fn COUNT)

12.174.1.13 emacspeak-owindow-previous-line

emacspeak-owindow-previous-line (count)

[Command]

ESC <up>

Move to the next line in the other window and speak it.

Numeric prefix arg COUNT specifies number of lines to move.

(fn COUNT)

12.174.1.14 emacspeak-owindow-scroll-down

emacspeak-owindow-scroll-down

[Command]

ESC <prior>

Scroll down the window that command 'other-window' would move to.

Speak the window contents after scrolling.

12.174.1.15 emacspeak-owindow-scroll-up

emacspeak-owindow-scroll-up

[Command]

ESC <next>

Scroll up the window that command 'other-window' would move to.

Speak the window contents after scrolling.

12.174.1.16 emacspeak-owindow-speak-line

emacspeak-owindow-speak-line

[Command]

ESC <select>

Speak the current line in the other window.

12.174.1.17 emacspeak-read-next-line

emacspeak-read-next-line (&optional arg)

[Command]

C-e <down>

<fn> <down>

Read next line, specified by an offset, without moving.

Default is to read the next line.

(fn & optional ARG)

12.174.1.18 emacspeak-read-previous-line

emacspeak-read-previous-line (&optional arg)

[Command]

C-e < up >

<fn> <up>

Read previous line, specified by an offset, without moving. Default is to read the previous line.

(fn &optional ARG)

12.174.1.19 emacspeak-shell-command

emacspeak-shell-command (command)

[Command]

С-е \$

< fn >\$

Run shell command COMMANDAND speak its output.

(fn COMMAND)

12.174.1.20 emacspeak-silence

emacspeak-silence

[Command]

<silence>

Silence is golden. Stop speech, and pause/resume any media streams. Runs 'emacspeak-silence-hook' which can be used to configure which media players get silenced or paused/resumed.

12.174.1.21 emacspeak-speak-buffer

emacspeak-speak-buffer (&optional arg)

[Command]

С-е b

< fn > b

Speak current buffer contents.

With prefix ARG, speaks the rest of the buffer from point.

Negative prefix arg speaks from start of buffer to point.

(fn &optional ARG)

12.174.1.22 emacspeak-speak-buffer-filename

emacspeak-speak-buffer-filename (&optional filename)

[Command]

C-e C-f

< fn > C - f

Speak name of file being visited in current buffer. Speak default directory if invoked in a dired buffer, or when the buffer is not visiting any file. Interactive prefix arg 'filename' speaks only the final path component. The result is put in the kill ring for convenience.

(fn & optional FILENAME)

12.174.1.23 emacspeak-speak-buffer-interactively

emacspeak-speak-buffer-interactively

[Command]

С-е В

 $\langle fn \rangle B$

Speak the start of, rest of, or the entire buffer.

's' to speak the start.

'r' to speak the rest.

any other key to speak entire buffer.

12.174.1.24 emacspeak-speak-char

emacspeak-speak-char (&optional prefix)

[Command]

C-e c

<fn> c

Speak character under point.

Pronounces character phonetically unless called with a PREFIX arg.

(fn & optional PREFIX)

12.174.1.25 emacspeak-speak-char-name

emacspeak-speak-char-name (char)

[Command]

tell me what this is

(fn CHAR)

12.174.1.26 emacspeak-speak-completions-if-available

 ${\tt emacspeak-speak-completions-if-available}$

[Command]

Speak completions if available.

12.174.1.27 emacspeak-speak-continuously

emacspeak-speak-continuously

[Command]

С-е RET

<fn> R.F.T

Speak a buffer continuously.

First prompts using the minibuffer for the kind of action to perform after speaking each chunk. E.G. speak a line at a time etc. Speaking commences at current buffer position. Pressing C-g breaks out, leaving point on last chunk that was spoken. Any other key continues to speak the buffer.

12.174.1.28 emacspeak-speak-current-column

emacspeak-speak-current-column

[Command]

C-e =

<fn> =

Speak the current column.

12.174.1.29 emacspeak-speak-current-field

emacspeak-speak-current-field

[Command]

С-е f

<fn> f

Speak current field.

12.174.1.30 emacspeak-speak-current-kill

emacspeak-speak-current-kill (&optional count)

[Command]

C-e k

 $\langle fn \rangle k$

Speak the current kill.

This is what will be yanked by the next S-<insertchar>. Prefix numeric arg, COUNT, specifies that the text that will be yanked as a result of a S-<insertchar> followed by count-1 M-x yank-pop be spoken. The kill number that is spoken says what numeric prefix arg to give to command yank.

(fn &optional COUNT)

12.174.1.31 emacspeak-speak-current-mark

emacspeak-speak-current-mark (count)

[Command]

C-e C-SPC

C-e C-@

<fn> C-SPC <fn> C-@

Speak the line containing the mark.

With no argument, speaks the line containing the mark—this is where 'exchange-point-and-mark' C-x C-x would jump. Numeric prefix arg 'COUNT' speaks line containing mark 'n' where 'n' is one less than the number of times one has to jump using 'set-mark-command' to get to this marked position. The location of the mark is indicated by an aural highlight.

(fn COUNT)

12.174.1.32 emacspeak-speak-current-percentage

emacspeak-speak-current-percentage

[Command]

С-е %

<fn> %

Announce the percentage into the current buffer.

12.174.1.33 emacspeak-speak-current-window

emacspeak-speak-current-window

[Command]

Speak contents of current window.

Speaks entire window irrespective of point.

12.174.1.34 emacspeak-speak-date-as-seconds

emacspeak-speak-date-as-seconds (time)

[Command]

Read time value as a human-readable string, return seconds. Seconds value is also placed in the kill-ring.

(fn TIME)

12.174.1.35 emacspeak-speak-header-line

emacspeak-speak-header-line

[Command]

C-e SPC

<fn> SPC

Speak header line if set.

12.174.1.36 emacspeak-speak-help

emacspeak-speak-help (&optional arg)

[Command]

C-e h

<fn> h

Speak help buffer if one present.

With prefix arg, speaks the rest of the buffer from point.

Negative prefix arg speaks from start of buffer to point.

(fn & optional ARG)

12.174.1.37 emacspeak-speak-help-interactively

emacspeak-speak-help-interactively

Speak the start of, rest of, or the entire help.

's' to speak the start.

'r' to speak the rest.

any other key to speak entire help.

12.174.1.38 emacspeak-speak-line

emacspeak-speak-line (&optional arg)

[Command]

[Command]

C-e 1

<fn> 1

Speaks current line. With prefix ARG, speaks the rest of the line from point. Negative prefix optional arg speaks from start of line to point. Indicates indentation with a spoken message if audio indentation is on see 'emacspeak-toggle-audio-indentation' bound to C-e d i. Indicates position of point with an aural highlight if option 'emacspeak-show-point' is on –see command 'emacspeak-toggle-show-point' bound to C-e C-d. Lines that start hidden blocks of text, e.g. outline header lines, or header lines of blocks created by command 'emacspeak-hide-or-expose-block' are indicated with auditory icon ellipses. Presence of additional

with auditory icon ellipses. Presence of additional presentational overlays (created via property display, before-string, or after-string) is indicated with auditory icon 'more'. These can then be spoken using command C-e C-M-l.

(fn &optional ARG)

12.174.1.39 emacspeak-speak-line-interactively

emacspeak-speak-line-interactively

[Command]

С-е L

<fn> I

Speak the start of, rest of, or the entire line.

's' to speak the start.

'r' to speak the rest.

any other key to speak entire line.

12.174.1.40 emacspeak-speak-line-set-column-filter

emacspeak-speak-line-set-column-filter (filter)

[Command]

С-е |

<fn> |

Set up filter for selectively speaking or ignoring portions of lines.

The filter is specified as a list of pairs.

For example, to filter columns 1 - 10 and 20 - 25,

specify filter as

 $((0\ 9)\ (20\ 25))$. Filter settings are persisted across sessions. A persisted filter is used as the default when prompting for a filter.

This allows one to accumulate a set of filters for specific files like

/var/adm/messages and /var/adm/maillog over time.

Option emacspeak-speak-line-invert-filter determines the sense of the filter.

(fn FILTER)

12.174.1.41 emacspeak-speak-message-again

emacspeak-speak-message-again (&optional from-message-cache)

[Command]

С-е а

<fn> a

Speak the last message from Emacs once again.

The message is also placed in the kill ring for convenient yanking

(fn &optional FROM-MESSAGE-CACHE)

12.174.1.42 emacspeak-speak-message-at-time

 $\verb|emacspeak-speak-message-at-time| (time message)$

[Command]

С-е @

<fn> @

Speak message at specified time.

Provides simple stop watch functionality.

See documentation for command run-at-time for details on time-spec.

(fn TIME MESSAGE)

12.174.1.43 emacspeak-speak-microseconds-since-epoch

emacspeak-speak-microseconds-since-epoch (ms)

[Command]

Speaks time value specified as microseconds since epoch, e.g. as from float-time.

(fn MS)

12.174.1.44 emacspeak-speak-milliseconds-since-epoch

emacspeak-speak-milliseconds-since-epoch (ms)

[Command]

Speaks time value specified as milliseconds since epoch, e.g. as from float-time.

(fn MS)

12.174.1.45 emacspeak-speak-minor-mode-line

emacspeak-speak-minor-mode-line (&optional log-msg)

[Command]

C-e~M

< fn > M

Speak the minor mode-information.

Optional interactive prefix arg 'log-msg' logs spoken info to

Messages.

(fn &optional LOG-MSG)

12.174.1.46 emacspeak-speak-mode-line

emacspeak-speak-mode-line (&optional buffer-info)

[Command]

C-e m

< fn > m

Speak the mode-line.

Speaks header-line if that is set when called non-interactively.

Interactive prefix arg speaks buffer info.

(fn &optional BUFFER-INFO)

12.174.1.47 emacspeak-speak-next-field

emacspeak-speak-next-field

[Command]

C-e >

<fn> >

Move to and speak next field.

12.174.1.48 emacspeak-speak-next-personality-chunk

emacspeak-speak-next-personality-chunk

[Command]

C-e C-n

<fn> C-n

Moves to the front of next personality change and speak it.

12.174.1.49 emacspeak-speak-other-buffer

emacspeak-speak-other-buffer (buffer)

[Command]

C-e M-b

< fn > M-b

Speak specified buffer.

Useful to listen to a buffer without switching contexts.

(fn BUFFER)

12.174.1.50 emacspeak-speak-overlay-properties

emacspeak-speak-overlay-properties

[Command]

C-e C-M-1

<fn> C-M-1

Speak display, before-string or after-string property if any.

12.174.1.51 emacspeak-speak-page

emacspeak-speak-page (&optional arg)

[Command]

С-е [

<fn> √

Speak a page.

With prefix ARG, speaks rest of current page.

Negative prefix arg will read from start of current page to point.

(fn &optional ARG)

12.174.1.52 emacspeak-speak-page-interactively

emacspeak-speak-page-interactively

[Command]

С-е]

<fn>]

Speak the start of, rest of, or the entire page.

's' to speak the start.

'r' to speak the rest.

any other key to speak entire page.

12.174.1.53 emacspeak-speak-paragraph

emacspeak-speak-paragraph (&optional arg)

[Command]

С-е р

<fn> p

Speak paragraph.

With prefix arg, speaks rest of current paragraph.

Negative prefix arg will read from start of current paragraph to point.

(fn &optional ARG)

12.174.1.54 emacspeak-speak-paragraph-interactively

emacspeak-speak-paragraph-interactively

[Command]

С-е Р

 $\langle fn \rangle P$

Speak the start of, rest of, or the entire paragraph.

's' to speak the start.

'r' to speak the rest.

any other key to speak entire paragraph.

12.174.1.55 emacspeak-speak-preceding-char

emacspeak-speak-preceding-char

[Command]

Speak character before point.

12.174.1.56 emacspeak-speak-predefined-window

emacspeak-speak-predefined-window (&optional arg)

[Command]

С-е 9

С-е 8

С-е 7

С-е 6

C-e 5

С-е 4

С-е З

С-е 2

С-е 1

С-е О

<fn> 9

<fn> 8

<fn> 7

<fn> 6

.___

<fn> 5

<fn> 4

(fn START END)

```
<fn> 3
     <fn> 2
     <fn> 1
     <fn> 0
     Speak one of the first 10 windows on the screen, 0 is current window.
     Speaks entire window irrespective of point. Semantics of 'other'
     is the same as for the Emacs builtin 'other-window'.
     (fn &optional ARG)
12.174.1.57 emacspeak-speak-previous-field
emacspeak-speak-previous-field
                                                                       [Command]
     C-e <
     <fn> <
     Move to previous field and speak it.
12.174.1.58 emacspeak-speak-previous-personality-chunk
emacspeak-speak-previous-personality-chunk
                                                                       [Command]
     С-е С-р
     <fn> C-p
     Moves to the front of previous personality change and
      speak it.
12.174.1.59 emacspeak-speak-rectangle
emacspeak-speak-rectangle (start end)
                                                                       [Command]
     С-е R
     \langle fn \rangle R
     Speak a rectangle of text.
     Rectangle is delimited by point and mark. When call from a
     program, arguments specify the START and END of the rectangle.
     (fn START END)
12.174.1.60 emacspeak-speak-region
emacspeak-speak-region (start end)
                                                                       [Command]
     C-e r
     < fn > r
     Speak region bounded by start and end.
```

12.174.1.61 emacspeak-speak-rest-of-buffer

emacspeak-speak-rest-of-buffer

[Command]

C-e n

<fn> n

Speak remainder of the buffer starting at point

12.174.1.62 emacspeak-speak-run-shell-command

[Command]

C-e !

<fn> !

Invoke shell COMMAND and display its output as a table. The results are placed in a buffer in Emacspeak's table browsing mode. Optional interactive prefix arg read-as-csv interprets the result as csv. . Use this for running shell commands that produce tabulated output. This command should be used for shell commands that produce tabulated output that works with Emacspeak's table recognizer. Verify this first by running the command in a shell and executing command 'emacspeak-table-display-table-in-region' normally bound to C-e M-i.

(fn COMMAND & optional READ-AS-CSV)

12.174.1.63 emacspeak-speak-seconds-since-epoch

emacspeak-speak-seconds-since-epoch (seconds)

[Command]

Speaks time value specified as seconds since epoch, e.g. as from float-time.

(fn SECONDS)

12.174.1.64 emacspeak-speak-sentence

emacspeak-speak-sentence (&optional arg)

[Command]

Speak current sentence.

With prefix ARG, speaks the rest of the sentence from point.

Negative prefix arg speaks from start of sentence to point.

(fn & optional ARG)

12.174.1.65 emacspeak-speak-set-display-table

emacspeak-speak-set-display-table (&optional prefix)

[Command]

Sets up buffer specific speech display table that controls how special characters are spoken. Interactive prefix argument causes setting to be global. (fn &optional PREFIX)

12.174.1.66 emacspeak-speak-sexp

emacspeak-speak-sexp (&optional arg)

[Command]

С-е "

<fn> "

Speak current sexp.

With prefix ARG, speaks the rest of the sexp from point.

Negative prefix arg speaks from start of sexp to point.

(fn &optional ARG)

12.174.1.67 emacspeak-speak-sexp-interactively

emacspeak-speak-sexp-interactively

[Command]

Speak the start of, rest of, or the entire sexp.

's' to speak the start.

'r' to speak the rest.

any other key to speak entire sexp.

12.174.1.68 emacspeak-speak-skim-buffer

emacspeak-speak-skim-buffer

[Command]

С-е ,

<fn> ,

Skim the current buffer a paragraph at a time.

12.174.1.69 emacspeak-speak-spaces-at-point

emacspeak-speak-spaces-at-point

[Command]

C-e C-M-SPC

С-е С-M-@

<fn> C-M-SPC

<fn> C-M-@

Speak the white space at point.

12.174.1.70 emacspeak-speak-spell-current-word

${\tt emacspeak-speak-spell-current-word}$

[Command]

Spell word at point.

12.174.1.71 emacspeak-speak-this-personality-chunk

emacspeak-speak-this-personality-chunk

[Command]

С-е С-.

<fn> C-.

Speak chunk of text having personality at point.

12.174.1.72 emacspeak-speak-time

emacspeak-speak-time (&optional world)

[Command]

C-e t

<fn> t

Speak the time.

Spoken time is available in the *notifications* buffer via C-h N.

Optional interactive prefix arg 'C-u'invokes world clock.

Timezone is specified using minibuffer completion.

Second interactive prefix sets clock to new timezone.

(fn &optional WORLD)

12.174.1.73 emacspeak-speak-version

emacspeak-speak-version (&optional speak-rev)

[Command]

C-e V

< fn > V

Announce version information for running emacspeak.

Optional interactive prefix arg 'speak-rev' speaks only the Git revision number.

(fn &optional SPEAK-REV)

12.174.1.74 emacspeak-speak-visual-line

emacspeak-speak-visual-line

[Command]

Speaks current visual line.

Cues the start of a physical line with auditory icon 'left'.

12.174.1.75 emacspeak-speak-voice-annotate-paragraphs

emacspeak-speak-voice-annotate-paragraphs

[Command]

Locate paragraphs and voice annotate the first word.

Here, paragraph is taken to mean a chunk of text preceded by a blank line.

Useful to do this before you listen to an entire buffer.

12.174.1.76 emacspeak-speak-which-function

emacspeak-speak-which-function

[Command]

C-e M-w

< fn > M-w

Speak which function we are on. Uses which-function from which-func without turning that mode on.

12.174.1.77 emacspeak-speak-window-information

emacspeak-speak-window-information

[Command]

C-e C-w

<fn> C-w

Speaks information about current window.

12.174.1.78 emacspeak-speak-word

emacspeak-speak-word (&optional arg)

[Command]

С-е w

<fn> w

Speak current word.

With prefix ARG, speaks the rest of the word from point.

Negative prefix arg speaks from start of word to point.

If executed on the same buffer position a second time, the word is spelled out instead of being spoken.

(fn &optional ARG)

12.174.1.79 emacspeak-speak-word-interactively

emacspeak-speak-word-interactively

[Command]

Speak the start of, rest of, or the entire word.

's' to speak the start.

'r' to speak the rest.

any other key to speak entire word.

12.174.1.80 emacspeak-speak-world-clock

emacspeak-speak-world-clock (zone &optional set)

[Command]

Display current date and time for specified zone.

Optional second arg 'set' sets the TZ environment variable as well.

(fn ZONE & optional SET)

12.174.1.81 emacspeak-switch-to-reference-buffer

emacspeak-switch-to-reference-buffer

[Command]

Switch back to buffer that generated completions.

12.174.1.82 emacspeak-toggle-action-mode

emacspeak-toggle-action-mode (&optional prefix)

[Command]

Toggle state of Emacspeak action mode.

Interactive PREFIX arg means toggle the global default value, and then set the current local value to the result.

12.174.1.83 emacspeak-toggle-audio-indentation

emacspeak-toggle-audio-indentation (&optional prefix)

[Command]

C-e d i

<fn> d i

Toggle state of Emacspeak audio indentation.

Interactive PREFIX arg means toggle the global default value, and then set the current local value to the result.

Specifying the method of indentation as 'tones'

results in the Dectalk producing a tone whose length is a function of the

line's indentation. Specifying 'speak'

results in the number of initial spaces being spoken.

12.174.1.84 emacspeak-toggle-character-echo

emacspeak-toggle-character-echo (&optional prefix)

[Command]

C-e d k

< fn > dk

Toggle state of Emacspeak character echo.

Interactive PREFIX arg means toggle the global default value, and then set the current local value to the result.

12.174.1.85 emacspeak-toggle-header-line

emacspeak-toggle-header-line

[Command]

Toggle Emacspeak's default header line.

12.174.1.86 emacspeak-toggle-line-echo

emacspeak-toggle-line-echo (&optional prefix)

[Command]

C-e d 1

<fn> d 1

Toggle state of Emacspeak line echo.

Interactive PREFIX arg means toggle the global default value, and then set the current local value to the result.

12.174.1.87 emacspeak-toggle-mail-alert

emacspeak-toggle-mail-alert (&optional prefix)

[Command]

 $C-e\ M-m$

< fn > M-m

Toggle state of Emacspeak mail alert.

Interactive PREFIX arg means toggle the global default value, and then set the current local value to the result.

Turning on this option results in Emacspeak producing an auditory icon indicating the arrival of new mail when displaying the mode line.

12.174.1.88 emacspeak-toggle-show-point

emacspeak-toggle-show-point (&optional prefix)

[Command]

C-e C-d

< fn > C-d

Toggle state of Emacspeak-show-point.

Interactive PREFIX arg means toggle the global default value, and then set the current local value to the result.

12.174.1.89 emacspeak-toggle-speak-line-invert-filter

emacspeak-toggle-speak-line-invert-filter (&optional prefix) [Command]

C−*e* \

<fn> \

Toggle state of how column filter is interpreted.

Interactive PREFIX arg means toggle the global default value, and then set the current local value to the result.

12.174.1.90 emacspeak-toggle-speak-messages

emacspeak-toggle-speak-messages (&optional prefix)

[Command]

C-e q

< fn > q

Toggle the state of whether emacspeak echoes messages.

12.174.1.91 emacspeak-toggle-word-echo

emacspeak-toggle-word-echo (&optional prefix)

[Command]

 $C-e \ d \ w$

<fn> d w

Toggle state of Emacspeak word echo.

Interactive PREFIX arg means toggle the global default value, and then set the current local value to the result.

12.174.1.92 emacspeak-view-notifications

emacspeak-view-notifications

[Command]

C-h N

<f1> N

<help> N

Display notifications.

12.174.1.93 emacspeak-zap-tts

emacspeak-zap-tts

[Command]

C-e dz

< fn > dz

Send this command to the TTS directly.

12.174.2 emacspeak-speak Options

User Option emacspeak-audio-indentation

[Variable]

Option indicating if line indentation is cued. You can use command 'emacspeak-toggle-audio-indentation' bound to C-e d i to toggle this setting.

User Option emacspeak-character-echo

[Variable]

If t, then emacspeak echoes characters as you type. You can use C-e d k to toggle this setting.

User Option emacspeak-line-echo

[Variable]

If t, then emacspeak echoes lines as you type. You can use C-e d l to set this option.

User Option emacspeak-mail-alert

[Variable]

If t, emacspeak will alert you about newly arrived mail with an auditory icon when displaying the mode line. You can use command 'emacspeak-toggle-mail-alert' bound to C-e M-m to set this option.

User Option emacspeak-mail-alert-interval

[Variable]

Interval in seconds between mail alerts for the same pending message.

User Option emacspeak-mail-spool-file

[Variable]

Mail spool file examined to alert you about newly arrived mail.

User Option emacspeak-silence-hook

[Variable]

Functions run after emacspeak-silence is called.

User Option emacspeak-speak-filter-persistent-store

[Variable]

File where emacspeak filters are persisted.

User Option emacspeak-speak-messages

[Variable]

Option indicating if messages are spoken. If nil, emacspeak will not speak messages as they are echoed to the message area. You can use command 'emacspeak-toggle-speak-messages' bound to C-e q.

User Option emacspeak-speak-time-format-string

[Variable]

Format string that specifies how the time should be spoken. See the documentation for function 'format-time-string'

User Option emacspeak-speak-zoneinfo-directory

[Variable]

Directory containing timezone data.

User Option emacspeak-word-echo

[Variable]

If t, then emacspeak echoes words as you type. You can use C-e d w to toggle this option.

12.175 emacspeak-speedbar

This module advises speedbar.el for use with Emacs. The latest speedbar can be obtained from ftp://ftp.ultranet.com/pub/zappo/ This module ensures that speedbar works smoothly outside a windowing system in addition to speech enabling all interactive commands. Emacspeak also adds an Emacspeak environment specific entry point to speedbar–emacspeak-speedbar-goto-speedbar– and binds this

12.175.1 Emacspeak-Speedbar Commands

12.175.1.1 emacspeak-speedbar-click

emacspeak-speedbar-click

[Command]

Does the equivalent of the mouse click from the keyboard

12.175.1.2 emacspeak-speedbar-goto-speedbar

emacspeak-speedbar-goto-speedbar

[Command]

Switch to the speedbar

12.176 emacspeak-sql

This module speech enables sql-mode—available from the Emacs package archive. sql-mode.el implemented by the above package sets up an Emacs to SQL interface where you can interactively evaluate SQL expressions.

12.177 emacspeak-sudoku

Playing SuDoku using speech output. Written to discover what type of feedback one needs for this task. See http://emacspeak.blogspot.com/2006/02/playing-sudoku-using-auditory-feedback.html

12.177.1 Emacspeak-Sudoku Commands

12.177.1.1 emacspeak-sudoku-board-columns-summarize

emacspeak-sudoku-board-columns-summarize

[Command]

Summarize columns — speaks number of remaining cells.

12.177.1.2 emacspeak-sudoku-board-distribution-summarize

emacspeak-sudoku-board-distribution-summarize Shows distribution of filled numbers. [Command]

12.177.1.3 emacspeak-sudoku-board-rows-summarize

emacspeak-sudoku-board-rows-summarize

[Command]

Summarize rows — speaks number of remaining cells.

12.177.1.4 emacspeak-sudoku-board-sub-squares-summarize

emacspeak-sudoku-board-sub-squares-summarize

[Command]

Summarize sub-squares — speaks number of remaining cells.

12.177.1.5 emacspeak-sudoku-board-summarizer

emacspeak-sudoku-board-summarizer

[Command]

Dispatch to appropriate summarizer.

- d Number Distribution
- r Row Distribution
- c Column Distribution
- s Sub-square Distribution.

12.177.1.6 emacspeak-sudoku-down-sub-square

emacspeak-sudoku-down-sub-square

[Command]

Move to top-left corner of sub-square below current one.

12.177.1.7 emacspeak-sudoku-erase-current-column

emacspeak-sudoku-erase-current-column

[Command]

Erase current column.

12.177.1.8 emacspeak-sudoku-erase-current-row

emacspeak-sudoku-erase-current-row

[Command]

Erase current row.

12.177.1.9 emacspeak-sudoku-erase-current-sub-square

emacspeak-sudoku-erase-current-sub-square

[Command]

Erase current sub-square.

12.177.1.10 emacspeak-sudoku-hint

emacspeak-sudoku-hint

[Command]

Provide hint for current cell.

12.177.1.11 emacspeak-sudoku-history-pop

emacspeak-sudoku-history-pop

[Command]

Pop saved state off stack and redraw board.

12.177.1.12 emacspeak-sudoku-history-push

emacspeak-sudoku-history-push

[Command]

Push current state on to history stack.

12.177.1.13 emacspeak-sudoku-how-many-remaining

emacspeak-sudoku-how-many-remaining

[Command]

Speak number of remaining squares to fill.

12.177.1.14 emacspeak-sudoku-next-sub-square

emacspeak-sudoku-next-sub-square

[Command]

Move to top-left corner of next sub-square.

12.177.1.15 emacspeak-sudoku-previous-sub-square

emacspeak-sudoku-previous-sub-square

[Command]

Move to top-left corner of previous sub-square.

12.177.1.16 emacspeak-sudoku-speak-current-cell-coordinates

emacspeak-sudoku-speak-current-cell-coordinates speak current cell coordinates.

[Command]

12.177.1.17 emacspeak-sudoku-speak-current-cell-value

emacspeak-sudoku-speak-current-cell-value Speak value in current cell. [Command]

12.177.1.18 emacspeak-sudoku-speak-current-column

emacspeak-sudoku-speak-current-column Speak current column. [Command]

12.177.1.19 emacspeak-sudoku-speak-current-row

emacspeak-sudoku-speak-current-row Speak current row. [Command]

12.177.1.20 emacspeak-sudoku-speak-current-sub-square

emacspeak-sudoku-speak-current-sub-square Speak current sub-square.

[Command]

12.177.1.21 emacspeak-sudoku-speak-remaining-in-column

emacspeak-sudoku-speak-remaining-in-column Speaks number of remaining cells in current column. [Command]

12.177.1.22 emacspeak-sudoku-speak-remaining-in-row

emacspeak-sudoku-speak-remaining-in-row

[Command]

Speaks number of remaining cells in current row.

12.177.1.23 emacspeak-sudoku-speak-remaining-in-sub-square

emacspeak-sudoku-speak-remaining-in-sub-square

[Command]

Speaks number of remaining cells in current sub-square.

12.177.1.24 emacspeak-sudoku-up-sub-square

emacspeak-sudoku-up-sub-square

[Command]

Move to top-left corner of sub-square above current one.

12.178 emacspeak-supercite

Speech-enable supercite.

12.179 emacspeak-syslog

SYSLOG-MODE == Working with various log files. Install package syslog-mode from melpa.

12.180 emacspeak-tab-bar

tab-bar == tabs for window configuration. Speech-enable tab-bar interaction. If you have browse-url-new-window-flag set to T to have EWW open Web pages in a new buffer, then set eww-browse-url-new-window-is-tab to nil to avoid leaking tabs.

12.181 emacspeak-table

Implements a module that provides a high level interface to tabulated information.

12.182 emacspeak-table-ui

User interface to tables

12.182.1 Emacspeak-Table-Ui Commands

12.182.1.1 emacspeak-table-copy-current-element-to-kill-ring

emacspeak-table-copy-current-element-to-kill-ring

[Command]

C-e C-t w

<fn> C-t w

Copy current table element to kill ring.

12.182.1.2 emacspeak-table-copy-current-element-to-register

emacspeak-table-copy-current-element-to-register (register) [Command]

C-e C-t x

<fn> C-t x

Copy current table element to specified register.

(fn REGISTER)

12.182.1.3 emacspeak-table-copy-to-clipboard

emacspeak-table-copy-to-clipboard

[Command]

C-e C-t k

<fn> C-t k

Copy table in current buffer to the table clipboard.

Current buffer must be in emacspeak-table mode.

12.182.1.4 emacspeak-table-display-table-in-region

emacspeak-table-display-table-in-region (start end)

[Command]

C-e~M-i

< fn > M-i

Recognize tabular data in current region and display it in table browsing mode in a a separate buffer.

emacspeak table mode is designed to let you browse tabular data using all the power of the two-dimensional spatial layout while giving you sufficient contextual information. The tables subdirectory of the emacspeak distribution contains some sample tables —these are the CalTrain schedules. Execute command 'describe-mode' bound to C-h m in a buffer that is in emacspeak table mode to read the documentation on the table browser.

(fn START END)

12.182.1.5 emacspeak-table-find-csv-file

emacspeak-table-find-csv-file (filename)

[Command]

C-e C-t ,

< fn > C-t ,

Process a csv (comma separated values) file.

The processed data is presented using emacspeak table navigation.

(fn FILENAME)

12.182.1.6 emacspeak-table-find-file

emacspeak-table-find-file (filename)

[Command]

Open a file containing table data and display it in table mode. emacspeak table mode is designed to let you browse tabular data using all the power of the two-dimensional spatial layout while giving you sufficient contextual information. The etc/tables subdirectory of the emacspeak distribution contains some sample tables —these are the CalTrain schedules. Execute command 'describe-mode' bound to C-h m in a buffer that is in emacspeak table mode to read the documentation on the table browser.

(fn FILENAME)

12.182.1.7 emacspeak-table-goto

emacspeak-table-goto (row column)

[Command]

C-e C-t j

<fn> C-t j

Prompt for a table cell coordinates and jump to it.

(fn ROW COLUMN)

12.182.1.8 emacspeak-table-goto-bottom

emacspeak-table-goto-bottom

[Command]

C-e C-t B

<fn> C-t B

C-e C-t M->

<fn> C-t M->

Goes to the bottom of the current column.

12.182.1.9 emacspeak-table-goto-left

emacspeak-table-goto-left

[Command]

C-e C-t A

C-e C-t <

< fn > C-t A

<fn> C-t <

Goes to the left of the current row.

12.182.1.10 emacspeak-table-goto-right

emacspeak-table-goto-right

[Command]

C-e C-t E

C-e C-t >

< fn > C - t E

<fn> C-t >

Goes to the right of the current row.

12.182.1.11 emacspeak-table-goto-top

emacspeak-table-goto-top

[Command]

C-e C-t T

< fn > C-t T

C-e C-t M-<

<fn> C-t M-<

Goes to the top of the current column.

12.182.1.12 emacspeak-table-mode

emacspeak-table-mode

[Command]

Major mode for browsing tables.

Table mode is designed to allow speech users to browse tabular data with full contextual feedback while retaining all the power of the two-dimensional spatial layout of tables.

In table mode, the arrow keys move between cells of the table. Emacspeak speaks the cell contents in a user-customizable way. The visual display is kept in sync with the speech you hear; however Emacspeak is examining the entire table in order to speak the current cell content intelligently.

You can interactively specify that emacspeak should speak either the row or column header (or both) while speaking each cell. You can also specify a row or column filter that should be applied when speaking entire rows or columns—this lets you view slices of a table. You can move to a specific row or column by searching the cell contents or by searching the row or column headers to locate items of interest.

Here is a short description of the special commands provided in this mode.

The next four commands help you move to the edges of the table:

E emacspeak-table-goto-right
A emacspeak-table-goto-left
B emacspeak-table-goto-bottom
T emacspeak-table-goto-top

The next two commands let you search the table.

The commands ask you if you want to search rows or columns.

When searching headers remember that row 0 is the column header, and that column 0 is the row header.

h emacspeak-table-search-headers s emacspeak-table-search

The next command lets you specify how cell contents should be spoken. Specify one of: 'b' for both, 'c' for column, 'r' for row, 'f' for row filtering and

one of: 'b' for both, 'c' for column, 'r' for row, 'f' for row filtering and 'g' for column filtering. –table cells with then be spoken with both (or either)row and column headers, or with the filter applied.

a emacspeak-table-select-automatic-speaking-method

The next set of commands speak the current table cell:

emacspeak-table-speak-coordinates
 emacspeak-table-speak-both-headers-and-element
 emacspeak-table-speak-current-element
 emacspeak-table-speak-column-header-and-element

e macspeak-table-speak-row-header-and-element

The next set of commands navigate the table:

right emacspeak-table-next-column
left emacspeak-table-previous-column
down emacspeak-table-next-row
up emacspeak-table-previous-row
j emacspeak-table-goto
S-tab emacspeak-table-previous-colum

S-tab emacspeak-table-previous-column TAB emacspeak-table-next-column

Row and Column Filtering

Filtering is designed to let you view slices of a table. They are specified as lists of numbers and strings. The concept is best explained with an example.

A row filter specifies which of the entries in the current row should be spoken. Entries are numbered starting with 0. Thus, when working with a table having 8 columns, a row filter of (1 2 3) will speak only entries 1 2 and 3. Use the sample tables in etc/tables to familiarize yourself with this feature. Note that you can intersperse meaningful strings in the list that specifies the filter.

Full List Of Keybindings: key binding

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C-b emacspeak-table-previous-column

C-f emacspeak-table-next-column

TAB emacspeak-table-next-column

C-n emacspeak-table-next-row

C-p emacspeak-table-previous-row

ESC Prefix Command

SPC emacspeak-table-speak-current-element

emacspeak-table-sort-on-current-column

- , emacspeak-table-find-csv-file
- . emacspeak-table-speak-coordinates
- < emacspeak-table-goto-left
- = emacspeak-table-speak-dimensions
- > emacspeak-table-goto-right

A emacspeak-table-goto-left

```
B emacspeak-table-goto-bottom
```

C emacspeak-table-search-column

E emacspeak-table-goto-right

Q emacspeak-kill-buffer-quietly

R emacspeak-table-search-row

T emacspeak-table-goto-top

a emacspeak-table-select-automatic-speaking-method

b emacspeak-table-speak-both-headers-and-element

c emacspeak-table-speak-column-header-and-element

f emacspeak-table-speak-row-filtered

g emacspeak-table-speak-column-filtered

h emacspeak-table-search-headers

j emacspeak-table-goto

k emacspeak-table-copy-to-clipboard

n emacspeak-table-next-row

p emacspeak-table-previous-row

q quit-window

r emacspeak-table-speak-row-header-and-element

s emacspeak-table-search

v emacspeak-table-view-csv-buffer

w emacspeak-table-copy-current-element-to-kill-ring

x emacspeak-table-copy-current-element-to-register

S-<tab> emacspeak-table-previous-column

<down> emacspeak-table-next-row

<left> emacspeak-table-previous-column

<right> emacspeak-table-next-column

<up> emacspeak-table-previous-row

M-< emacspeak-table-goto-top

M-> emacspeak-table-goto-bottom

M-l emacspeak-table-ui-filter-load

M-s emacspeak-table-ui-filter-save

In addition to any hooks its parent mode 'special-mode' might have run, this mode runs the hook 'emacspeak-table-mode-hook', as the final or penultimate step during initialization.

12.182.1.13 emacspeak-table-next-column

emacspeak-table-next-column (&optional count)

[Command]

C-e C-t TAB

C-e C-t C-f

C-e C-t <right>

<fn> C-t TAB

<fn> C-t C-f

<fn> C-t <right>

Move to the next column if possible

(fn & optional COUNT)

12.182.1.14 emacspeak-table-next-row

emacspeak-table-next-row (&optional count)

[Command]

C-e C-t n

C-e C-t C-n

C-e C-t <down>

<fn> C-t n

<fn> C-t C-n

<fn> C-t <down>

Move to the next row if possible

(fn &optional COUNT)

12.182.1.15 emacspeak-table-paste-from-clipboard

emacspeak-table-paste-from-clipboard

[Command]

Paste the emacspeak table clipboard into the current buffer. Use the major mode of this buffer to decide what kind of table markup to use.

12.182.1.16 emacspeak-table-previous-column

emacspeak-table-previous-column (&optional count)

[Command]

C-e C-t C-b

C-e C-t <left>

C-e C-t S-<tab>

<fn> C-t C-b

<fn> C-t <left>

<fn> C-t S-<tab>

Move to the previous column if possible

(fn &optional COUNT)

12.182.1.17 emacspeak-table-previous-row

emacspeak-table-previous-row (&optional count)

[Command]

C-e C-t p

C-e C-t C-p

C-e C-t <up>

<fn> C-t p

<fn> C-t C-p

<fn> C-t <up>

Move to the previous row if possible

(fn &optional COUNT)

12.182.1.18 emacspeak-table-search

emacspeak-table-search (&optional what)

[Command]

C-e C-t s

<fn> C-t s

Search the table for matching elements. Interactively prompts for row or column to search and pattern to look for. If there is a match, makes the matching cell current. When called from a program, 'what' can be either 'row' or 'column'.

(fn & optional WHAT)

12.182.1.19 emacspeak-table-search-column

emacspeak-table-search-column

[Command]

C-e C-t C

<fn> C-t C

Search in current table column.

12.182.1.20 emacspeak-table-search-headers

emacspeak-table-search-headers

[Command]

C-e C-t h

<fn> C-t h

Search the table row or column headers. Interactively prompts for row or column to search and pattern to look for. If there is a match, makes the matching row or column current.

12.182.1.21 emacspeak-table-search-row

emacspeak-table-search-row

[Command]

C-e C-t R

< fn > C - t R

Search in current table row.

12.182.1.22 emacspeak-table-select-automatic-speaking-method

emacspeak-table-select-automatic-speaking-method

[Command]

C-e C-t a

< fn > C - t a

Interactively select the kind of automatic speech to produce when browsing table elements

12.182.1.23 emacspeak-table-sort-on-current-column

emacspeak-table-sort-on-current-column

[Command]

C-e C-t #

<fn> C-t #

Sort table on current column.

12.182.1.24 emacspeak-table-speak-both-headers-and-element

emacspeak-table-speak-both-headers-and-element

[Command]

C-e C-t b

<fn> C-t b

Speak both row and column header and table element

12.182.1.25 emacspeak-table-speak-column-filtered

emacspeak-table-speak-column-filtered (&optional prefix)

[Command]

C-e C-t g

<fn> C-t g

Speaks a table column after applying a specified column filter.

Optional prefix arg prompts for a new filter.

(fn &optional PREFIX)

12.182.1.26 emacspeak-table-speak-column-header-and-element

emacspeak-table-speak-column-header-and-element

[Command]

C-e C-t c

<fn> C-t. c

Speak column header and table element

12.182.1.27 emacspeak-table-speak-coordinates

emacspeak-table-speak-coordinates

[Command]

C-e C-t .

<fn> C-t .

Speak current table coordinates.

12.182.1.28 emacspeak-table-speak-current-element

emacspeak-table-speak-current-element

[Command]

C-e C-t SPC

<fn> C-t SPC

Speak current table element

12.182.1.29 emacspeak-table-speak-dimensions

emacspeak-table-speak-dimensions

[Command]

C-e C-t =

< fn > C - t =

Speak current table dimensions.

12.182.1.30 emacspeak-table-speak-row-filtered

emacspeak-table-speak-row-filtered (&optional prefix)

[Command]

C-e C-t f

< fn > C - t f

Speaks a table row after applying a specified row filter.

Optional prefix arg prompts for a new filter.

(fn &optional PREFIX)

12.182.1.31 emacspeak-table-speak-row-header-and-element

emacspeak-table-speak-row-header-and-element

[Command]

C-e C-t r

<fn> C-t r

Speak row header and table element

12.182.1.32 emacspeak-table-ui-filter-load

emacspeak-table-ui-filter-load (file)

[Command]

C-e C-t M-1

<fn> C-t M-1

Load saved filter settings.

(fn FILE)

12.182.1.33 emacspeak-table-ui-filter-save

emacspeak-table-ui-filter-save (file)

[Command]

C-e C-t M-s

<fn> C-t M-s

Save out filter settings.

(fn FILE)

12.182.1.34 emacspeak-table-view-csv-buffer

emacspeak-table-view-csv-buffer (&optional buffer-name)

[Command]

C-e C-t v

< fn > C - t v

Process a csv (comma separated values) data.

The processed data is presented using emacspeak table navigation.

(fn &optional BUFFER-NAME)

12.182.1.35 emacspeak-table-view-csv-url

emacspeak-table-view-csv-url (url &optional buffer-name)

[Command]

Process a csv (comma separated values) data at 'URL'.

The processed data is presented using emacspeak table navigation.

(fn URL &optional BUFFER-NAME)

12.183 emacspeak-tabulate

This module is a simple table recognizer. Can recognize the columns in tabulated output, e.g. ps, ls output

12.184 emacspeak-tapestry

emacspeak extensions to speak window widnow layouts

12.184.1 Emacspeak-Tapestry Commands

12.184.1.1 emacspeak-speak-window-layout

emacspeak-speak-window-layout (&optional details)

[Command]

Describe the current layout of visible buffers in current frame. Use interactive prefix arg to get coordinate positions of the displayed buffers.

(fn &optional DETAILS)

12.184.1.2 emacspeak-tapestry-describe-tapestry

emacspeak-tapestry-describe-tapestry (&optional details)

[Command]

 $C-e \ M-t$

< fn > M-t

Describe the current layout of visible buffers in current frame. Use interactive prefix arg to get coordinate positions of the displayed buffers.

(fn &optional DETAILS)

12.184.1.3 emacspeak-tapestry-select-window-by-name

emacspeak-tapestry-select-window-by-name (buffer-name)

[Command]

С-е W

<fn> W

Select window by the name of the buffer it displays. This is useful when using modes like ECB or the new GDB UI where you want to preserve the window layout but quickly switch to a window by name.

(fn BUFFER-NAME)

12.185 emacspeak-tar

Auditory interface to tar mode

12.185.1 Emacspeak-Tar Commands

12.185.1.1 emacspeak-tar-speak-file-date

emacspeak-tar-speak-file-date Speak date of file current entry [Command]

12.185.1.2 emacspeak-tar-speak-file-permissions

emacspeak-tar-speak-file-permissions Speak permissions of file current entry [Command]

12.185.1.3 emacspeak-tar-speak-file-size

emacspeak-tar-speak-file-size Speak size of file current entry [Command]

12.186 emacspeak-tcl

Provide additional advice to tcl-mode

12.187 emacspeak-tempo

tempo.el provides the infrastructure for building up templates. This is used by html-helper-mode to allow for easy writing of HTML This module extends Emacspeak to provide fluent spoken feedback

12.188 emacspeak-tetris

Speech-enables tetris.

12.188.1 Emacspeak-Tetris Commands

12.188.1.1 emacspeak-tetris-goto-bottom-row

emacspeak-tetris-goto-bottom-row Move to and speak bottom row

[Command]

12.188.1.2 emacspeak-tetris-goto-top-row

emacspeak-tetris-goto-top-row

[Command]

Move to and speak the top row

12.188.1.3 emacspeak-tetris-speak-column

emacspeak-tetris-speak-column (&optional x)

[Command]

Speak column –default is to speak current column

(fn &optional X)

12.188.1.4 emacspeak-tetris-speak-coordinates

emacspeak-tetris-speak-coordinates

[Command]

Speak current position

12.188.1.5 emacspeak-tetris-speak-current-shape

emacspeak-tetris-speak-current-shape Speak current shape [Command]

12.188.1.6 emacspeak-tetris-speak-current-shape-and-coordinates

emacspeak-tetris-speak-current-shape-and-coordinates Speak shape orientation and coordinates [Command]

12.188.1.7 emacspeak-tetris-speak-next-shape

emacspeak-tetris-speak-next-shape

[Command]

Speak next shape

12.188.1.8 emacspeak-tetris-speak-row

emacspeak-tetris-speak-row

[Command]

Speak current tetris row

12.188.1.9 emacspeak-tetris-speak-row-number

emacspeak-tetris-speak-row-number

[Command]

Speak where on the tetris board we are

12.188.1.10 emacspeak-tetris-speak-score

 ${\tt emacspeak-tetris-speak-score}$

[Command]

Speak the score

12.188.1.11 emacspeak-tetris-speak-x-coordinate

 ${\tt emacspeak-tetris-speak-x-coordinate}$

[Command]

Speak current position

12.189 emacspeak-texinfo

This module speech enables net-texinfo mode

12.190 emacspeak-threes

THREES == threes game. This module speech-enable the game. https://en. wikipedia.org/wiki/Threes for history of the game and details of game play. This module adds additional convenience keybindings to the default arrow-key bindings implemented in threes.el. In addition, this module implements commands that speak the board as well as getting a column-specific view of the board.

- f Move right
- b Move left
- n Move down
- p Move up
- SPC Speak the board
- / Speak board by column.
- . Speak current score.
- Speak number of zeros on the board.
- s Save current state
- u Pop state from stack
- ? Speak next tile

The updated board is spoken after each turn. The next upcoming tile is spoken after the current state of the board. You can use SPC and / to review the board.

12.190.1 Emacspeak-Threes Commands

12.190.1.1 emacspeak-threes-0

emacspeak-threes-0 Set next tile. [Command]

12.190.1.2 emacspeak-threes-1

emacspeak-threes-1

[Command]

Set next tile.

12.190.1.3 emacspeak-threes-2

emacspeak-threes-2

[Command]

Set next tile.

12.190.1.4 emacspeak-threes-3

emacspeak-threes-3

[Command]

Set next tile.

12.190.1.5 emacspeak-threes-export

emacspeak-threes-export (&optional prompt)

[Command]

Exports game stack to a file.

Optional interactive prefix arg prompts for a file.

Note that the file is overwritten silently.

(fn &optional PROMPT)

12.190.1.6 emacspeak-threes-import

emacspeak-threes-import (&optional prompt)

[Command]

Import game.

Optional interactive prefix arg prompts for a filename.

(fn &optional PROMPT)

12.190.1.7 emacspeak-threes-pop-state

emacspeak-threes-pop-state

[Command]

Reset state from stack.

12.190.1.8 emacspeak-threes-prune-stack

emacspeak-threes-prune-stack (drop)

[Command]

Prune game stack to specified length.

(fn DROP)

12.190.1.9 emacspeak-threes-push-state

emacspeak-threes-push-state

[Command]

Push current game state on stack.

12.190.1.10 emacspeak-threes-score

emacspeak-threes-score

[Command]

Speak the score.

12.190.1.11 emacspeak-threes-speak-board

emacspeak-threes-speak-board

[Command]

Speak the board.

12.190.1.12 emacspeak-threes-speak-empty-count

emacspeak-threes-speak-empty-count

[Command]

Speak number of cells that are non-empty.

12.190.1.13 emacspeak-threes-speak-next

emacspeak-threes-speak-next Speak upcoming tile. [Command]

12.190.1.14 emacspeak-threes-speak-transposed-board

emacspeak-threes-speak-transposed-board Speak the board by columns.

[Command]

12.191 emacspeak-tide

TIDE == Typescript IDE for emacs. This module speech-enables both tide and typescript-mode.

12.192 emacspeak-todo-mode

todo-mode (part of Emacs 21) provides todo-lists that can be integrated with the Emacs calendar. This module speech-enables todo-mode

12.193 emacspeak-transient

TRANSIENT == Transient commands — used by magit and friends. This module speechenables transient.

12.193.1 Introduction

Package Transient is similar to package Hydra in the sense that it can be used to create a sequence of chained/hierarchical commands that are invoked via a sequence of keys. It is used by Magit for dispatching to the various Git commands. Speech-enabling package Transient results in the various interactive commands producing auditory feedback. Transient shows an ephemeral window with the currently available commands, Emacspeak speech-enables transient—show to speak that content.

Finally, this module defines a new minor mode called transient-emacspeak that enables interactive browsing of the contents displayed temporarily. Note that without this functionality, learning complex packages like Magit would be difficult because the list of available commands (potentially very long) gets spoken in its entirety by the advice on transient—show.

12.193.2 Browsing Contents Of transient-show

When executing a command defined via Transient — e.g. command Magit-dispatch and friends, press C-z (transient-suspend) to temporarily suspend the currently active transient. Emacspeak now displays a *transient-emacspeak* buffer that displays the contents of the most recently displayed transient choices. Pressing C-c resumes the transient; Pressing C-q quits the transient.

12.193.3 Emacspeak-Transient Commands

12.193.3.1 emacspeak-transient-mode

emacspeak-transient-mode

[Command]

emacspeak integration with Transient.

In addition to any hooks its parent mode 'special-mode' might have run, this mode runs the hook 'emacspeak-transient-mode-hook', as the final or penultimate step during initialization.

key binding

12.194 emacspeak-twittering

module twittering-mode.el is found on the emacs wiki This module speech-enables twittering-mode which works using oauth for authentication. Note: As of Thu Sep 2 08:11:25 PDT 2010 twit.el is broken.

Advises interactive functions to speak

12.194.1 Emacspeak-Twittering Commands

12.194.1.1 emacspeak-twittering-jump-to-following-url

emacspeak-twittering-jump-to-following-url

[Command]

Move to and open closest URI following point.

12.194.1.2 emacspeak-twittering-speak-this-tweet

${\tt emacspeak-twittering-speak-this-tweet~(\&optional}$

[Command]

copy-as-kill)

Speak tweet under point.

With interactive prefix arg 'copy-as-kill', copy it to kill ring as well.

(fn & optional COPY-AS-KILL)

12.194.1.3 emacspeak-twittering-twarc

emacspeak-twittering-twarc (&optional whose)

[Command]

Download data using credentials for signed-in user. Interactive prefix arg 'whose' prompts for a username whose timeline we download.

(fn &optional WHOSE)

12.195 emacspeak-typo

TYPO == Typographical Editing This module speech-enables typo-mode. Typo-mode's magic insertion commands are speech-enabled to speak the inserted char.

12.196 emacspeak-url-template

It is often useful to have "parametrized hot list entries" i.e., hotlist entries that are "templates" for the actual URL. The user provides values for the parametrized portions of the URL e.g. the date. See See Section 12.233 [URL Templates], page 279, for details on the URL templates that are presently defined.

12.196.1 Emacspeak-Url-Template Commands

12.196.1.1 emacspeak-url-template-fetch

emacspeak-url-template-fetch (&optional documentation)

[Command]

С-е и

<fn> u

Fetch a pre-defined resource.

Use Emacs completion to obtain a list of available resources.

Resources typically prompt for the relevant information

before completing the request.

Optional interactive prefix arg displays documentation for specified resource.

(fn &optional DOCUMENTATION)

12.196.1.2 emacspeak-url-template-help

emacspeak-url-template-help

[Command]

Display documentation for a URL template.

Use Emacs completion to obtain a list of available resources.

12.196.1.3 emacspeak-url-template-load

emacspeak-url-template-load (file)

[Command]

Load URL template resources from specified location.

(fn FILE)

12.196.1.4 emacspeak-url-template-nls-add-to-wishlist

$\verb|emacspeak-url-template-nls-add-to-wishlist| (book)$

[Command]

Add book under point to wishlist.

(fn BOOK)

12.196.1.5 emacspeak-url-template-save

emacspeak-url-template-save (file)

[Command]

Save out url templates.

(fn FILE)

12.196.2 emacspeak-url-template Options

User Option emacspeak-url-template-currency-base Currency to use as the base when doing currency conversion.

[Variable]

User Option emacspeak-url-template-currency-list

[Variable]

List of currencies for which we request rates by default.

12.197 emacspeak-vdiff

VDIFF == vimdiff Installable from melpa, vdiff enables synchronized movement through diff buffers without resorting to an extra control-panel as is the case with ediff. In addition to speech-enabling interactive commands and setting up face->voice mappings, this module provides commands that speak the current hunk. These are bound in vdiff-mode-prefix-map.

- emacspeak-vdiff-speak-this-hunk bound to SPC.
- emacspeak-vdiff-speak-other-hunk bound to C-SPC.
- emacspeak-vdiff-speak-other-line bound to 1.

12.197.1 Emacspeak-Vdiff Commands

12.197.1.1 emacspeak-vdiff-speak-other-hunk

emacspeak-vdiff-speak-other-hunk

[Command]

Speak corresponding hunk from other buffer.

12.197.1.2 emacspeak-vdiff-speak-other-line

emacspeak-vdiff-speak-other-line

[Command]

Speak corresponding line from other buffer.

12.197.1.3 emacspeak-vdiff-speak-this-hunk

emacspeak-vdiff-speak-this-hunk

[Command]

Speak VDiff hunk under point.

12.198 emacspeak-view

Provide additional advice to view-mode

12.198.1 Emacspeak-View Commands

12.198.1.1 emacspeak-view-line-to-top

emacspeak-view-line-to-top

[Command]

Moves current line to top of window

12.199 emacspeak-vm

This module extends the mail reader vm. Uses voice locking for message headers and cited messages

12.199.1 Emacspeak-Vm Commands

12.199.1.1 emacspeak-vm-browse-message

emacspeak-vm-browse-message

[Command]

Browse an email message –read it paragraph at a time.

12.199.1.2 emacspeak-vm-catch-up-all-messages

emacspeak-vm-catch-up-all-messages

[Command]

Mark all messages in folder to be deleted. Use with caution.

12.199.1.3 emacspeak-vm-locate-subject-line

emacspeak-vm-locate-subject-line

[Command]

Locates the subject line in a message being read. Useful when you're reading a message that has been forwarded multiple times.

12.199.1.4 emacspeak-vm-mode-line

emacspeak-vm-mode-line

[Command]

VM mode line information.

12.199.1.5 emacspeak-vm-speak-labels

emacspeak-vm-speak-labels

[Command]

Speak a message's labels

12.199.1.6 emacspeak-vm-speak-message

emacspeak-vm-speak-message

[Command]

Move point to the message body.

12.199.1.7 emacspeak-vm-toggle-html-mime-demotion

emacspeak-vm-toggle-html-mime-demotion

[Command]

Toggle state of HTML Mime promotion/Demotion.

12.199.1.8 emacspeak-vm-yank-header

emacspeak-vm-yank-header

[Command]

Yank specified header into kill ring.

12.199.2 emacspeak-vm Options

User Option emacspeak-vm-cal2text

[Variable]

Executable that converts calendar invitations on standard input to plain text.

User Option emacspeak-vm-customize-mime-settings

[Variable]

Non-nil will cause Emacspeak to configure VM mime settings to match what the author of Emacspeak uses.

User Option emacspeak-vm-pdf2text

[Variable]

Executable that converts PDF on standard input to plain text using pdftotext.

User Option emacspeak-vm-use-raman-settings

[Variable]

Should VM use the customizations used by the author of Emacspeak.

User Option emacspeak-vm-voice-loc

[Variable]

Set this to T if you want messages automatically voice locked. Note that some badly formed mime messages cause trouble.

12.200 emacspeak-vterm

VTERM == vterm using native vterm library

12.200.1 Usage

- Turn on emacspeak-comint-autospeak for using the shell.
- Turn off emacspeak-comint-autospeak when using full-screen neurses apps like vi.
- Use vterm-copy-mode to review the contents of the terminal C-c C-t.

12.201 emacspeak-vuiet

VUIET == Emacs Music Explorer And Player with last.fm integration This module speechenables vuiet.

12.201.1 Emacspeak-Vuiet Commands

12.201.1.1 emacspeak-vuiet-track-info

emacspeak-vuiet-track-info

[Command]

Speak current playing state.

12.202 emacspeak-wdired

Speech-enable wdired to permit in-place renaming of groups of files.

12.203 emacspeak-we

we is for webedit Invoke XSLT to edit/transform Web pages before they get rendered. we makes emacspeak's webedit layer independent of a given Emacs web browser EWW This module will use the abstraction provided by browse-url to handle Web pages.

12.203.1 Emacspeak-We Commands

12.203.1.1 emacspeak-we-class-filter-and-follow

emacspeak-we-class-filter-and-follow (class url &optional prompt)

[Command]

C-e x e y

<fn> x e y

Follow url and point, and filter the result by specified class. Class can be set locally for a buffer, and overridden with an interactive prefix arg. If there is a known rewrite url rule, that is used as well.

(fn CLASS URL &optional PROMPT)

12.203.1.2 emacspeak-we-class-filter-and-follow-link

 $\begin{array}{c} \texttt{emacspeak-we-class-filter-and-follow-link} \ \textbf{(\&optional} \\ prompt) \end{array}$

[Command]

C-e x e v

<fn> x e v

Follow url and point, and filter the result by specified class. Class can be set locally for a buffer, and overridden with an interactive prefix arg. If there is a known rewrite url rule, that is used as well.

(fn &optional PROMPT)

12.203.1.3 emacspeak-we-count-matches

emacspeak-we-count-matches (url locator)

[Command]

C-e x e C-f

 $\langle fn \rangle x \in C-f$

Count matches for locator in Web page.

(fn URL LOCATOR)

12.203.1.4 emacspeak-we-count-nested-tables

emacspeak-we-count-nested-tables (url)

[Command]

C-e x e C-x

 $\langle fn \rangle x \in C - x$

Count nested tables in Web page.

(fn URL)

12.203.1.5 emacspeak-we-count-tables

emacspeak-we-count-tables (url)

[Command]

C-e x e C-t <fn> x e C-t Count tables in Web page. (fn URL)

12.203.1.6 emacspeak-we-extract-by-class

emacspeak-we-extract-by-class (class url &optional speak)

[Command]

C-e x e c

 $\langle fn \rangle x e c$

Extract elements having specified class attribute from HTML. Extracts specified elements from current WWW page and displays it in a separate buffer. Interactive use provides list of class values as completion.

(fn CLASS URL & optional SPEAK)

12.203.1.7 emacspeak-we-extract-by-class-list

emacspeak-we-extract-by-class-list (classes url &optional speak)

[Command]

C-e x e C

 $\langle fn \rangle x \in C$

Extract elements having class specified in list 'classes' from HTML. Extracts specified elements from current WWW page and displays it in a separate buffer. Interactive use provides list of class values as completion.

(fn CLASSES URL & optional SPEAK)

12.203.1.8 emacspeak-we-extract-by-id

emacspeak-we-extract-by-id (id url &optional speak)

[Command]

C-exei

<fn> x e i

Extract elements having specified id attribute from HTML. Extracts specified elements from current WWW page and displays it in a separate buffer.

Interactive use provides list of id values as completion.

(fn ID URL & optional SPEAK)

12.203.1.9 emacspeak-we-extract-by-id-list

emacspeak-we-extract-by-id-list (ids url &optional speak) [Command]

C-e x e I

 $\langle fn \rangle \ x \ e \ I$

Extract elements having id specified in list 'ids' from HTML. Extracts specified elements from current WWW page and displays it in a separate buffer. Interactive use provides list of id values as completion.

(fn IDS URL &optional SPEAK)

12.203.1.10 emacspeak-we-extract-by-role

emacspeak-we-extract-by-role (role url &optional speak) [Command]

C-e x e r

 $\langle fn \rangle x e r$

Extract elements having specified role attribute from HTML. Extracts specified elements from current WWW page and displays it in a separate buffer. Interactive use provides list of role values as completion.

(fn ROLE URL &optional SPEAK)

12.203.1.11 emacspeak-we-extract-matching-urls

emacspeak-we-extract-matching-urls (pattern url &optional [Command] speak)

C-e x e u

<fn> x e u

Extracts links whose URL matches pattern.

(fn PATTERN URL &optional SPEAK)

12.203.1.12 emacspeak-we-extract-nested-table

emacspeak-we-extract-nested-table (index url &optional speak) [Command]

C-e x e x

< fn > x e x

Extract nested table specified by 'table-index'. Default is to operate on current web page when in a browser buffer; otherwise prompt for URL. Optional arg 'speak' specifies if the result should be spoken automatically.

(fn INDEX URL & optional SPEAK)

12.203.1.13 emacspeak-we-extract-nested-table-list

C-e x e X

< fn > x e X

Extract specified list of tables from a Web page.

(fn TABLES URL & optional SPEAK)

12.203.1.14 emacspeak-we-extract-speakable

emacspeak-we-extract-speakable (url &optional speak)

[Command]

C-e x e z

 $\langle fn \rangle x e z$

Extract elements having class'speakable' from HTML.

(fn URL & optional SPEAK)

12.203.1.15 emacspeak-we-extract-table-by-match

emacspeak-we-extract-table-by-match (match url &optional speak)

[Command]

C-e x e m

 $\langle fn \rangle x e m$

Extract table containing specified match.

Optional arg url specifies the page to extract content from.

(fn MATCH URL &optional SPEAK)

12.203.1.16 emacspeak-we-extract-table-by-position

emacspeak-we-extract-table-by-position ($pos \ url \ \&optional \ speak$)

[Command]

C-e x e t

 $\langle fn \rangle x e t$

Extract table at specified pos.

Default is to extract from current page.

(fn POS URL & optional SPEAK)

12.203.1.17 emacspeak-we-extract-tables-by-match-list

emacspeak-we-extract-tables-by-match-list (match-list url &optional speak)

[Command]

C-e x e M

< fn > x e M

Extract specified tables from a WWW page. Tables are specified by containing match pattern found in the match list.

(fn MATCH-LIST URL &optional SPEAK)

12.203.1.18 emacspeak-we-extract-tables-by-position-list

C-e x e T

< fn > x e T

Extract specified list of nested tables from a WWW page. Tables are specified by their position in the list

of nested tables found in the page.

(fn POSITIONS URL & optional SPEAK)

12.203.1.19 emacspeak-we-follow-and-extract-main

emacspeak-we-follow-and-extract-main (&optional speak)

[Command]

C-e x e P

<fn> x e P

Follow URL, then extract role=main.

(fn & optional SPEAK)

12.203.1.20 emacspeak-we-follow-and-filter-by-id

emacspeak-we-follow-and-filter-by-id (id prompt)

[Command]

C-e x e b

<fn> x e b

Follow url and point, and filter the result by specified id. Id can be set locally for a buffer, and overridden with an interactive prefix arg. If there is a known rewrite url rule, that is used as well.

(fn ID PROMPT)

12.203.1.21 emacspeak-we-junk-by-class

emacspeak-we-junk-by-class (class url &optional speak)

[Command]

C-e x e d

 $\langle fn \rangle x e d$

Extract elements not having specified class attribute from HTML. Extracts

specified elements from current WWW page and displays it in a separate buffer. Interactive use provides list of class values as completion.

(fn CLASS URL & optional SPEAK)

12.203.1.22 emacspeak-we-junk-by-class-list

emacspeak-we-junk-by-class-list (classes url &optional speak) [Command]

C-e x e D

C-e x e C-c

 $\langle fn \rangle x \in D$

 $\langle fn \rangle x \in C-c$

Extract elements not having class specified in list 'classes' from HTML. Extracts specified elements from current WWW page and displays it in a separate buffer. Interactive use provides list of class values as completion.

(fn CLASSES URL & optional SPEAK)

12.203.1.23 emacspeak-we-style-filter

emacspeak-we-style-filter (style url &optional speak)

[Command]

C-e x e S

<fn> x e S

Extract elements matching specified style from HTML. Extracts specified elements from current WWW page and displays it in a separate buffer. Optional arg url specifies the page to extract contents from.

(fn STYLE URL &optional SPEAK)

12.203.1.24 emacspeak-we-toggle-xsl-keep-result

emacspeak-we-toggle-xsl-keep-result

[Command]

C-e x e k

 $\langle fn \rangle x e k$

Toggle xsl keep result flag.

12.203.1.25 emacspeak-we-url-expand-and-execute

emacspeak-we-url-expand-and-execute (&optional prefix)

[Command]

C-e x e e

 $\langle fn \rangle x e e$

Applies buffer-specific URL expander/executor function.

(fn &optional PREFIX)

12.203.1.26 emacspeak-we-url-rewrite-and-follow

emacspeak-we-url-rewrite-and-follow (&optional prompt)

[Command]

Apply a url rewrite rule as specified in the current buffer before following link under point. If no rewrite rule is defined, first prompt for one. Rewrite rules are of the form '(from to)' where from and to are strings. Typically, the rewrite rule is automatically set up by Emacspeak tools like websearch where a rewrite rule is known. Rewrite rules are useful in jumping directly to the printer friendly version of an article for example. Optional interactive prefix arg prompts for a rewrite rule even if one is already defined.

(fn &optional PROMPT)

12.203.1.27 emacspeak-we-xpath-filter-and-follow

emacspeak-we-xpath-filter-and-follow (&optional prompt)

[Command]

C-e x e p

 $\langle fn \rangle x e p$

Follow url and point, and filter the result by specified xpath. XPath can be set locally for a buffer, and overridden with an interactive prefix arg. If there is a known rewrite url rule, that is used as well.

(fn &optional PROMPT)

12.203.1.28 emacspeak-we-xpath-junk-and-follow

emacspeak-we-xpath-junk-and-follow (&optional prompt)

[Command]

 $C-e \times e C-p$

<fn> x e C-p

Follow url and point, and filter the result by junking elements specified by xpath.

XPath can be set locally for a buffer, and overridden with an interactive prefix arg. If there is a known rewrite url rule, that is used as well.

(fn & optional PROMPT)

12.203.1.29 emacspeak-we-xsl-toggle

emacspeak-we-xsl-toggle

[Command]

C-e x e o

 $\langle fn \rangle x e o$

Toggle application of XSL transformations.

12.203.1.30 emacspeak-we-xslt-apply

emacspeak-we-xslt-apply (xsl)

[Command]

C-e x e a

 $\langle fn \rangle x e a$

Apply specified transformation to current Web page.

(fn XSL)

12.203.1.31 emacspeak-we-xslt-filter

emacspeak-we-xslt-filter (path url &optional speak)

[Command]

C-e x e f

 $\langle fn \rangle x e f$

Extract elements matching specified XPath path locator from Web page – default is the current page being viewed.

(fn PATH URL &optional SPEAK)

12.203.1.32 emacspeak-we-xslt-junk

emacspeak-we-xslt-junk (path url &optional speak)

[Command]

C-e x e j

<fn> x e j

Junk elements matching specified locator.

(fn PATH URL &optional SPEAK)

12.203.1.33 emacspeak-we-xslt-select

emacspeak-we-xslt-select (xsl)

[Command]

C-e x e s

<fn> x e s

Select XSL transformation applied to Web pages before they are displayed.

(fn XSL)

12.203.2 emacspeak-we Options

User Option emacspeak-we-filters-rename-buffer

[Variable]

Set to T if you want the buffer name to contain the applied filter.

12.204 emacspeak-websearch

This module provides utility functions for searching the WWW

12.204.1 Emacspeak-Websearch Commands

12.204.1.1 emacspeak-websearch-accessible-google

 ${\it emacspeak-websearch-accessible-google}~(query~\& {\it optional}~options)$

[Command]

Use Google Lite (Experimental).

Optional prefix arg prompts for toolbelt options.

(fn QUERY & optional OPTIONS)

12.204.1.2 emacspeak-websearch-amazon-search

emacspeak-websearch-amazon-search

[Command]

Amazon search.

12.204.1.3 emacspeak-websearch-ask-jeeves

emacspeak-websearch-ask-jeeves (query)

[Command]

Ask Jeeves for the answer.

(fn QUERY)

12.204.1.4 emacspeak-websearch-biblio-search

emacspeak-websearch-biblio-search (query)

[Command]

Search Computer Science Bibliographies.

(fn QUERY)

12.204.1.5 emacspeak-websearch-citeseer-search

emacspeak-websearch-citeseer-search (term)

[Command]

Perform a CiteSeer search.

(fn TERM)

12.204.1.6 emacspeak-websearch-dispatch

emacspeak-websearch-dispatch

[Command]

C-e ?

<fn> ?

Press '?' to list available search engines.

This interface attempts to speak the most relevant information on the result page.

12.204.1.7 emacspeak-websearch-foldoc-search

emacspeak-websearch-foldoc-search (query)

[Command]

Perform a FolDoc search.

(fn QUERY)

12.204.1.8 emacspeak-websearch-google

emacspeak-websearch-google (query &optional flag)

[Command]

Perform a Google search. First optional interactive prefix arg 'flag' prompts for additional search options. Second interactive prefix arg is equivalent to hitting the I'm Feeling Lucky button on Google.

(fn QUERY & optional FLAG)

12.204.1.9 emacspeak-websearch-google-feeling-lucky

${\tt emacspeak-websearch-google-feeling-lucky}\ (query)$

[Command]

Do a I'm Feeling Lucky Google search.

(fn QUERY)

12.204.1.10 emacspeak-websearch-google-news

emacspeak-websearch-google-news

[Command]

Invoke Google News url template.

12.204.1.11 emacspeak-websearch-google-search-in-date-range

emacspeak-websearch-google-search-in-date-range

[Command]

Use this from inside the calendar to do Google date-range searches.

12.204.1.12 emacspeak-websearch-google-with-toolbelt

 $\verb|emacspeak-websearch-google-with-toolbelt| (query)$

[Command]

Launch Google search with toolbelt.

(fn QUERY)

12.204.1.13 emacspeak-websearch-gutenberg

$\verb|emacspeak-websearch-gutenberg| (type query)$

[Command]

Perform an Gutenberg search

(fn TYPE QUERY)

12.204.1.14 emacspeak-websearch-help

emacspeak-websearch-help

[Command]

Displays key mapping used by Emacspeak Websearch.

12.204.1.15 emacspeak-websearch-merriam-webster-search

 ${\tt emacspeak-websearch-merriam-webster-search}~(query)$

[Command]

Search the Merriam Webster Dictionary.

(fn QUERY)

12.204.1.16 emacspeak-websearch-wikipedia-search

 ${\tt emacspeak-websearch-wikipedia-search}\ (query)$

[Command]

Search Wikipedia using Google.

(fn QUERY)

12.204.1.17 emacspeak-websearch-youtube-search

emacspeak-websearch-youtube-search (query)

[Command]

(fn QUERY)

YouTube search.

12.205 emacspeak-webspace

WEBSPACE == Smart Web Gadgets For The Emacspeak Desktop

12.205.1 Emacspeak-Webspace Commands

12.205.1.1 emacspeak-webspace-feed-reader

emacspeak-webspace-feed-reader (&optional refresh)

[Command]

C-. R

C-' R

C-x @ s R

Display Feed Reader Feed list in a WebSpace buffer.

Optional interactive prefix arg forces a refresh.

(fn &optional REFRESH)

12.205.1.2 emacspeak-webspace-filter

emacspeak-webspace-filter

[Command]

Open headline at point by following its link property and filter for content.

12.205.1.3 emacspeak-webspace-headlines

emacspeak-webspace-headlines

[Command]

Startup Headlines ticker using RSS/Atom feeds.

12.205.1.4 emacspeak-webspace-headlines-browse

emacspeak-webspace-headlines-browse

[Command]

Display buffer of browsable headlines.

12.205.1.5 emacspeak-webspace-headlines-update

emacspeak-webspace-headlines-update

[Command]

Setup news updates.

Updated headlines found in emacspeak-webspace-headlines.

12.205.1.6 emacspeak-webspace-mode

emacspeak-webspace-mode

[Command]

Major mode for Webspace interaction.

key binding

TAB forward-button

ESC Prefix Command

- ' emacspeak-speak-rest-of-buffer
- . emacspeak-webspace-filter
- / search-forward
- < beginning-of-buffer
- > end-of-buffer
- ? search-backward
- b backward-button
- f forward-button
- n forward-button
- p backward-button
- q bury-buffer
- y emacspeak-webspace-yank-link
- <backtab> backward-button

C-M-i backward-button

In addition to any hooks its parent mode 'special-mode' might have run, this mode runs the hook 'emacspeak-webspace-mode-hook', as the final or penultimate step during initialization.

12.205.1.7 emacspeak-webspace-open

emacspeak-webspace-open

[Command]

Open headline at point by following its link property.

12.205.1.8 emacspeak-webspace-yank-link

emacspeak-webspace-yank-link

[Command]

Yank link under point into kill ring.

12.205.2 emacspeak-webspace Options

User Option emacspeak-webspace-feeds Feeds to use in Headline Ticker.

[Variable]

12.206 emacspeak-widget

This module implements the necessary extensions to provide talking widgets.

12.206.1 Emacspeak-Widget Commands

12.206.1.1 emacspeak-widget-browse-widget-interactively

${\tt emacspeak-widget-browse-widget-interactively}$

[Command]

Allows you to browse a widget

12.206.1.2 emacspeak-widget-help

emacspeak-widget-help

[Command]

Speak help for widget under point.

12.206.1.3 emacspeak-widget-summarize-parent

emacspeak-widget-summarize-parent

[Command]

Summarize parent of widget at point.

12.206.1.4 emacspeak-widget-summarize-widget-under-point

emacspeak-widget-summarize-widget-under-point (&optional [Command] level)

Summarize a widget if any under point.

Optional interactive prefix specifies how many levels to go up from current widget before summarizing.

(fn &optional LEVEL)

12.206.1.5 emacspeak-widget-update-from-minibuffer

${\tt emacspeak-widget-update-from-minibuffer}~(pos)$

[Command]

Sets widget at 'pos' by invoking its prompter.

(fn POS)

12.207 emacspeak-windmove

Package windmove (bundled with Emacs 21) provides commands for navigating to windows based on relative position.

12.208 emacspeak-winning

window configurations in emacs are very useful you can display the same file in different windows, and have different portions of the file displayed. winring allows you to manage window configurations, and this module speech-enables it.

12.209 emacspeak-wizards

Contains various wizards for the Emacspeak desktop.

12.209.1 Emacspeak-Wizards Commands

12.209.1.1 emacspeak-copy-current-file

emacspeak-copy-current-file

[Command]

C-e M-c

< fn > M-c

Copy file visited in current buffer to new location. Prompts for the new location and preserves modification time

when copying. If location is a directory, the file is copied to that directory under its current name; if location names a file in an existing directory, the specified name is used. Asks for confirmation if the copy will result in an existing file being overwritten.

12.209.1.2 emacspeak-customize

emacspeak-customize

[Command]

С-е С

< fn > C

Customize Emacspeak.

12.209.1.3 emacspeak-describe-emacspeak

emacspeak-describe-emacspeak

[Command]

С-h С-е

<f1> C-e

<help> C-e

Give a brief overview of emacspeak.

12.209.1.4 emacspeak-kill-buffer-quietly

emacspeak-kill-buffer-quietly

[Command]

C-e C-t Q

<fn> C-t Q

Kill current buffer without confirmation.

12.209.1.5 emacspeak-learn-emacs-mode

emacspeak-learn-emacs-mode

[Command]

C-e < f1 >

C-h C-1

<fn> <f1>

<f1> C-1

<help> C-1

Helps you learn the keys. You can press keys and hear what they do.

To leave, press C-g.

12.209.1.6 emacspeak-link-current-file

emacspeak-link-current-file

[Command]

С-е M-1

<fn> M-1

Link (hard link) file visited in current buffer to new location. Prompts for the new location and preserves modification time when linking. If location is a directory, the file is copied to that directory under its current name; if location names a file in an existing directory, the specified name is used. Signals an error if target already exists.

12.209.1.7 emacspeak-next-frame-or-buffer

emacspeak-next-frame-or-buffer (&optional frame)

[Command]

C-<right>

Move to next buffer.

With optional interactive prefix arg 'frame', move to next frame instead.

(fn & optional FRAME)

12.209.1.8 emacspeak-previous-frame-or-buffer

emacspeak-previous-frame-or-buffer (&optional frame)

[Command]

C-<left>

Move to previous buffer.

With optional interactive prefix arg 'frame', move to previous frame instead.

(fn &optional FRAME)

12.209.1.9 emacspeak-select-this-buffer-next-display

emacspeak-select-this-buffer-next-display

[Command]

C-e C-<right>

<fn> C-<right>

Select this buffer as displayed in a 'next' frame.

See documentation for command

'emacspeak-select-this-buffer-other-window-display' for the meaning of 'next'.

12.209.1.10 emacspeak-select-this-buffer-other-window-display

emacspeak-select-this-buffer-other-window-display (&optional arg)

[Command]

Switch to this buffer as displayed in a different frame.

Emacs allows you to display the same buffer in multiple windows

or frames. These different windows can display different

portions of the buffer. This is equivalent to leaving a book open at multiple places at once.

(fn &optional ARG)

12.209.1.11 emacspeak-select-this-buffer-previous-display

emacspeak-select-this-buffer-previous-display

[Command]

C-e C-<left>

<fn> C-<left>

Select this buffer as displayed in a 'previous' window.

See documentation for command

'emacspeak-select-this-buffer-other-window-display' for the meaning of 'previous'.

12.209.1.12 emacspeak-show-property-at-point

emacspeak-show-property-at-point (&optional property)

[Command]

С-е М-р

<fn> M-p

Show value of PROPERTY at point.

If optional arg property is not supplied, read it interactively.

(fn &optional PROPERTY)

12.209.1.13 emacspeak-show-style-at-point

emacspeak-show-style-at-point

[Command]

 $C-e \ M-v$

< fn > M-v

Show value of property personality (and possibly face) at point.

12.209.1.14 emacspeak-skip-blank-lines-backward

emacspeak-skip-blank-lines-backward

[Command]

S-<up>

Move backward across blank lines, then speak line.

12.209.1.15 emacspeak-skip-blank-lines-forward

emacspeak-skip-blank-lines-forward

[Command]

S-<down>

Move forward across blank lines, then speak line.

12.209.1.16 emacspeak-speak-hostname

emacspeak-speak-hostname

[Command]

C-e M-h

< fn > M-h

Speak host name.

12.209.1.17 emacspeak-speak-popup-messages

emacspeak-speak-popup-messages

[Command]

C-h M

<f1> M

<help> M

Pop up Messages and switch to it.

12.209.1.18 emacspeak-speak-show-active-network-interfaces

emacspeak-speak-show-active-network-interfaces (&optional address)

[Command]

С-е I

 $\langle fn \rangle I$

Shows all active network interfaces in the echo area.

With interactive prefix argument ADDRESS it prompts for a specific interface and shows its address. The address is also copied to the kill ring for convenient yanking.

(fn & optional ADDRESS)

12.209.1.19 emacspeak-speak-telephone-directory

emacspeak-speak-telephone-directory (&optional edit)

[Command]

C-e x t

< fn > x t

Lookup and display a phone number.

With prefix arg, opens the phone book for editing.

(fn &optional EDIT)

12.209.1.20 emacspeak-speak-this-buffer-next-display

emacspeak-speak-this-buffer-next-display

[Command]

C-e <right>

<fn> <right>

Speak this buffer as displayed in a 'previous' window.

See documentation for command

'emacspeak-speak-this-buffer-other-window-display' for the meaning of 'next'.

12.209.1.21 emacspeak-speak-this-buffer-other-window-display

emacspeak-speak-this-buffer-other-window-display (window) [Command]

С-е /

<fn> /

Speak this buffer as displayed in a different frame or window. Emacs allows you to display the same buffer in multiple windows or frames. These different windows can display different portions of the buffer. This is equivalent to leaving a book open at places at once. This command allows you to listen to the places where you have left the book open.

(fn WINDOW)

12.209.1.22 emacspeak-speak-this-buffer-previous-display

emacspeak-speak-this-buffer-previous-display

[Command]

C-e <left>

<fn> <left>

Speak this buffer as displayed in a 'previous' window.

See documentation for command

'emacspeak-speak-this-buffer-other-window-display' for the meaning of 'previous'.

12.209.1.23 emacspeak-symlink-current-file

emacspeak-symlink-current-file

[Command]

C-e M-s

< fn > M-s

Link (symbolic link) file visited in current buffer to new location. Prompts for the new location and preserves modification time when linking. If location is a directory, the file is copied to that directory under its current name; if location names a file in an existing directory, the specified name is used. Signals an error if target already exists.

12.209.1.24 emacspeak-view-emacspeak-news

emacspeak-view-emacspeak-news

[Command]

 $C-e\ N$

< fn > N

Display emacspeak News for a given version.

12.209.1.25 emacspeak-view-emacspeak-tips

emacspeak-view-emacspeak-tips

[Command]

C-e T

< fn > T

Browse Emacspeak productivity tips.

12.209.1.26 emacspeak-wizards-alpha-vantage-quotes

emacspeak-wizards-alpha-vantage-quotes (ticker &optional custom)

[Command]

C-e x a

<fn> x a

Retrieve stock quote data from Alpha Vantage. Prompts for 'ticker' — a stock symbol. Optional interactive prefix arg 'custom' provides access to the various functions provided by alpha-vantage.

(fn TICKER & optional CUSTOM)

12.209.1.27 emacspeak-wizards-cleanup-shell-path

emacspeak-wizards-cleanup-shell-path

[Command]

Cleans up duplicates in shell path env variable.

12.209.1.28 emacspeak-wizards-color-at-point

emacspeak-wizards-color-at-point

[Command]

C-h ,

<f1>,

<help>,

Echo foreground/background color at point.

12.209.1.29 emacspeak-wizards-color-diff-at-point

emacspeak-wizards-color-diff-at-point (&optional set)

[Command]

 $C-h \setminus$

<f1> \

<help> \

Speak difference between background and foreground color at point. With interactive prefix arg, set foreground and background color first.

(fn & optional SET)

12.209.1.30 emacspeak-wizards-color-wheel

emacspeak-wizards-color-wheel (start)

[Command]

C-e x c

< fn > x c

Manipulate a simple color wheel and display the name and shade of the resulting color. Prompts for a color from which to start exploration.

Keyboard Commands During Interaction:

Up/Down: Increase/Decrement along current axis using specified step-size.

=: Set value on current axis to number read from minibuffer.

Left/Right: Switch color axis along which to move.

b/f: Quit wheel after setting background/foreground color to current value.

- n: Read color name from minibuffer.
- c: Complement current color.
- s: Set stepsize to number read from minibuffer.
- q: Quit color wheel, after copying current hex value to kill-ring.

(fn START)

12.209.1.31 emacspeak-wizards-colors

emacspeak-wizards-colors

[Command]

C-e x C

< fn > x C

Display list of colors and setup a callback to activate color under point as either the foreground or background color.

12.209.1.32 emacspeak-wizards-count-slides-in-region

 $\verb|emacspeak-wizards-count-slides-in-region| (start| end)$

[Command]

Count slides starting from point.

(fn START END)

12.209.1.33 emacspeak-wizards-customize-saved

emacspeak-wizards-customize-saved (pattern)

[Command]

C-h C-s

<f1> C-s

<help> C-s

Customize saved options matching 'pattern'. This command enables updating custom settings for a specific package or group of packages.

(fn PATTERN)

12.209.1.34 emacspeak-wizards-cycle-to-next-buffer

emacspeak-wizards-cycle-to-next-buffer

[Command]

C-z n

C-, n

C-x @ a n

Cycles to next buffer having same mode.

12.209.1.35 emacspeak-wizards-cycle-to-previous-buffer

emacspeak-wizards-cycle-to-previous-buffer

[Command]

C-zp

C-, p

C-x @ a p

Cycles to previous buffer having same mode.

12.209.1.36 emacspeak-wizards-describe-voice

emacspeak-wizards-describe-voice (personality)

[Command]

C-h C-v

<f1> C-v

<help> C-v

Describe voice — analogous to C-h /.

When called interactively, 'personality' defaults to first personality at point.

(fn PERSONALITY)

12.209.1.37 emacspeak-wizards-enumerate-matching-commands

 ${\tt emacspeak-wizards-enumerate-matching-commands}~(pattern)$

[Command]

Return list of commands whose names match pattern.

(fn PATTERN)

12.209.1.38 emacspeak-wizards-enumerate-matching-faces

 ${\tt emacspeak-wizards-enumerate-matching-faces}~(pattern)$

[Command]

Enumerate faces matching pattern.

(fn PATTERN)

12.209.1.39 emacspeak-wizards-enumerate-obsolete-faces

emacspeak-wizards-enumerate-obsolete-faces

[Command]

utility function to enumerate old, obsolete maps that we have still mapped to voices.

12.209.1.40 emacspeak-wizards-enumerate-uncovered-commands

emacspeak-wizards-enumerate-uncovered-commands (pattern &optional bound-only)

[Command]

Enumerate unadvised commands matching pattern.

Optional interactive prefix arg 'bound-only'

filters out commands that dont have an active key-binding.

(fn PATTERN & optional BOUND-ONLY)

12.209.1.41 emacspeak-wizards-enumerate-unmapped-faces

${\tt emacspeak-wizards-enumerate-unmapped-faces}\ (\& optional$

[Command]

pattern)

Enumerate unmapped faces matching pattern.

(fn & optional PATTERN)

12.209.1.42 emacspeak-wizards-espeak-line

emacspeak-wizards-espeak-line

[Command]

Speak line using espeak polyglot wizard.

12.209.1.43 emacspeak-wizards-espeak-region

emacspeak-wizards-espeak-region (start end)

[Command]

Speak region using ESpeak polyglot wizard.

(fn START END)

12.209.1.44 emacspeak-wizards-espeak-string

emacspeak-wizards-espeak-string (string)

[Command]

Speak string in lang via ESpeak.

Lang is obtained from property 'lang' on string, or via an interactive prompt.

(fn STRING)

12.209.1.45 emacspeak-wizards-eww-buffer-list

emacspeak-wizards-eww-buffer-list

[Command]

C-z e

Display list of EWW buffers.

12.209.1.46 emacspeak-wizards-exec-path-from-shell

emacspeak-wizards-exec-path-from-shell

[Command]

Update exec-path from shell path.

12.209.1.47 emacspeak-wizards-execute-asynchronously

emacspeak-wizards-execute-asynchronously (key) [Command]

C-. a

C-' a

C-x @ s a

Read key-sequence, then execute its command on a new thread.

(fn KEY)

12.209.1.48 emacspeak-wizards-find-file-as-root

emacspeak-wizards-find-file-as-root (file) [Command]

C-; r

C-x @ h r

Automatically edit file with root-privileges (using tramp/sudo), if the file is not writable by user.

(fn FILE)

12.209.1.49 emacspeak-wizards-find-longest-line-in-region

12.209.1.50 emacspeak-wizards-find-longest-paragraph-in-region

emacspeak-wizards-find-longest-paragraph-in-region (start end)

Find longest paragraph in region, and move to it.

(fn START END)

12.209.1.51 emacspeak-wizards-find-shortest-line-in-region

emacspeak-wizards-find-shortest-line-in-region (start end) [Command]
Find shortest line in region.
Moves to the shortest line when called interactively.

(fn START END)

12.209.1.52 emacspeak-wizards-finder-find

emacspeak-wizards-finder-find (directory)

[Command]

Run find-dired on specified switches after prompting for the directory to where find is to be launched.

(fn DIRECTORY)

12.209.1.53 emacspeak-wizards-finder-mode

emacspeak-wizards-finder-mode

[Command]

Emacspeak Finder

In addition to any hooks its parent mode 'special-mode' might have run, this mode runs the hook 'emacspeak-wizards-finder-mode-hook', as the final or penultimate step during initialization.

key binding

12.209.1.54 emacspeak-wizards-frame-colors

emacspeak-wizards-frame-colors

[Command]

Display frame's foreground/background color seetting.

12.209.1.55 emacspeak-wizards-free-geo-ip

emacspeak-wizards-free-geo-ip (&optional reverse-geocode)

[Command]

Return list consisting of city and region_name.

Optional interactive prefix arg reverse-geocodes using Google Maps.

(fn &optional REVERSE-GEOCODE)

12.209.1.56 emacspeak-wizards-gen-fn-decl

emacspeak-wizards-gen-fn-decl (f &optional ext)

[Command]

Generate declare-function call for function 'f'.

Optional interactive prefix arg ext says this comes from an external package.

(fn F & optional EXT)

12.209.1.57 emacspeak-wizards-generate-finder

emacspeak-wizards-generate-finder

[Command]

Generate a widget-enabled finder wizard.

12.209.1.58 emacspeak-wizards-google-headlines

emacspeak-wizards-google-headlines

[Command]

C-. C-n

C-' C-n

C-x @ s C-n

Display just the headlines from Google News.

12.209.1.59 emacspeak-wizards-google-news

emacspeak-wizards-google-news

[Command]

C-. n

C-' n

C-x @ s n

Clean up news.google.com.

12.209.1.60 emacspeak-wizards-how-many-matches

emacspeak-wizards-how-many-matches (start end &optional

[Command]

prefix)

C-e x h

< fn > x h

If you define a file local variable

called 'emacspeak-occur-pattern' that holds a regular expression

that matches lines of interest, you can use this command to

run 'how-many' to count matching header lines.

With interactive prefix arg, prompts for and remembers the file local pattern.

(fn START END & optional PREFIX)

12.209.1.61 emacspeak-wizards-iex-show-financials

emacspeak-wizards-iex-show-financials (symbol &optional refresh)

[Command]

Show financials for specified ticker.

Checks cache, then makes API call if needed.

Optional interactive prefix arg refreshes cache.

(fn SYMBOL & optional REFRESH)

12.209.1.62 emacspeak-wizards-iex-show-metadata

emacspeak-wizards-iex-show-metadata

[Command]

Account metadata.

12.209.1.63 emacspeak-wizards-iex-show-news

emacspeak-wizards-iex-show-news (symbol &optional refresh)

[Command]

Show news for specified ticker.

Checks cache, then makes API call if needed.

Optional interactive prefix arg refreshes cache.

(fn SYMBOL & optional REFRESH)

12.209.1.64 emacspeak-wizards-iex-show-price

emacspeak-wizards-iex-show-price (symbol)

[Command]

C-, q

C-x @ a q

Quick Quote: Just stock price from IEXCloud.

(fn SYMBOL)

12.209.1.65 emacspeak-wizards-iex-show-quote

emacspeak-wizards-iex-show-quote (&optional refresh)

[Command]

C-.q

C-' q

C-x @ s q

Show portfolio data from cache.

Optional interactive prefix arg forces cache refresh.

The quotes view uses emacspeak's table mode.

In addition, the following keys are available:

F: Show financials for current stock.

N: Show news for current stock.

P: Show live price for current stock.

(fn &optional REFRESH)

12.209.1.66 emacspeak-wizards-iex-show-tops

emacspeak-wizards-iex-show-tops

[Command]

Uses tops/last end-point to show brief portfolio quotes.

12.209.1.67 emacspeak-wizards-iex-this-financials

emacspeak-wizards-iex-this-financials

[Command]

Show financials for symbol in current row

12.209.1.68 emacspeak-wizards-iex-this-news

emacspeak-wizards-iex-this-news

[Command]

Show news for symbol in current row

12.209.1.69 emacspeak-wizards-iex-this-price

emacspeak-wizards-iex-this-price

[Command]

Show price for symbol in current row

12.209.1.70 emacspeak-wizards-mlb-standings

emacspeak-wizards-mlb-standings (&optional raw)

[Command]

Display MLB standings as of today.

Optional interactive prefix arg shows unprocessed results.

(fn &optional RAW)

12.209.1.71 emacspeak-wizards-move-and-speak

emacspeak-wizards-move-and-speak (command count)

[Command]

Speaks a chunk of text bounded by point and a target position. Target position is specified using a navigation command and a count that specifies how many times to execute that command first. Point is left at the target position. Interactively, command is specified by pressing the key that invokes the command.

(fn COMMAND COUNT)

12.209.1.72 emacspeak-wizards-nba-standings

emacspeak-wizards-nba-standings (&optional raw)

[Command]

Display NBA standings as of today.

Optional interactive prefix arg shows unprocessed results.

(fn & optional RAW)

12.209.1.73 emacspeak-wizards-next-bullet

emacspeak-wizards-next-bullet

[Command]

Navigate to and speak next 'bullet'.

12.209.1.74 emacspeak-wizards-next-interactive-defun

emacspeak-wizards-next-interactive-defun

[Command]

Move point to the next interactive defun

12.209.1.75 emacspeak-wizards-noaa-weather

emacspeak-wizards-noaa-weather (&optional ask)

[Command]

C-; w

 $C-e \times w$

< fn > x w

C-x @ h w

Display weather using NOAA Weather API.

Data is retrieved only once, subsequent calls switch to previously displayed results. Kill that buffer or use an interactive prefix arg (C-u) to get new data. Optional second interactive prefix arg (C-u C-u) asks for location address; Default is to display weather for 'gmaps-my-address'.

(fn &optional ASK)

12.209.1.76 emacspeak-wizards-occur-header-lines

emacspeak-wizards-occur-header-lines (&optional prefix)

[Command]

C-e x o

 $\langle fn \rangle \times o$

If you define a file local variable called 'emacspeak-occur-pattern' that holds a regular expression that matches header lines, you can use this command to run 'occur' to find matching header lines. With prefix arg, prompts for and sets value of the file local pattern.

(fn &optional PREFIX)

12.209.1.77 emacspeak-wizards-pdf-open

emacspeak-wizards-pdf-open (filename &optional ask-pwd)

[Command]

C-; p

C-x @ h p

Open pdf file as text.

Optional interactive prefix arg ask-pwd prompts for password.

(fn FILENAME & optional ASK-PWD)

12.209.1.78 emacspeak-wizards-previous-bullet

emacspeak-wizards-previous-bullet

Navigate to and speak previous 'bullet'.

[Command]

12.209.1.79 emacspeak-wizards-quote

emacspeak-wizards-quote (&optional refresh)

[Command]

C-e x q

 $\langle fn \rangle x q$

Top-level dispatch for Stock Market information.

Key : Action f : Financials

m : Account metadata

n : Newsp : Priceq : Quotest : tops/last

(fn &optional REFRESH)

12.209.1.80 emacspeak-wizards-remote-frame

emacspeak-wizards-remote-frame

[Command]

C-e x f

 $\langle fn \rangle x f$

Open a frame on a remote Emacs.

Remote workstation is 'emacspeak-wizards-remote-workstation'.

12.209.1.81 emacspeak-wizards-scratch

emacspeak-wizards-scratch

[Command]

C-. SPC

C-' SPC

C-x @ s SPC

Switch to *scratch* buffer, creating it if necessary.

12.209.1.82 emacspeak-wizards-set-colors

emacspeak-wizards-set-colors

[Command]

Prompt for foreground and background colors.

12.209.1.83 emacspeak-wizards-shell

emacspeak-wizards-shell (&optional prefix)

[Command]

Run Emacs 'shell' command when not in a shell buffer, or when called with a prefix argument. When called from a shell buffer, switches to 'next' shell buffer. When called from outside a shell buffer, find the most 'appropriate shell' and switch to it. Once switched, set default directory in that target shell to the directory of the source buffer.

(fn & optional PREFIX)

12.209.1.84 emacspeak-wizards-shell-by-key

emacspeak-wizards-shell-by-key (&optional prefix)

[Command]

C-e x 9

C-e x 8

С-е x 7

С-е х 6

С-е х 5

С-е х 4

С-е х 3

С-е х 2

С-е x 1

 $C-e \times 0$

<fn> x 9

<fn> x 8

< fn > x 7

<fn> x 6

<fn> x 5

<fn> x 4

< fn > x 3

<fn> x 2

<fn> x 1

<fn> x 0

Switch to shell buffer by key. This provides a predictable means for switching to a specific shell buffer. When invoked from a non-shell-mode buffer that is a dired-buffer or is visiting a file, invokes 'cd' in the shell to change to the value of 'default-directory' — if called with a prefix-arg. When already in a shell buffer, interactive prefix arg 'prefix' causes this shell to be re-keyed if appropriate — see M-x emacspeak-wizards-shell-re-key for an explanation of how re-keying works.

(fn &optional PREFIX)

12.209.1.85 emacspeak-wizards-shell-command-on-current-file

```
emacspeak-wizards-shell-command-on-current-file
                                                                     [Command]
         (command)
     C-e &
     <fn> &
     Prompts for and runs shell command on current file.
     (fn COMMAND)
12.209.1.86 emacspeak-wizards-shell-directory-reset
emacspeak-wizards-shell-directory-reset
                                                                     [Command]
     C-. .
     C-'.
     C-e x .
     < fn > x.
     C-x @ s .
     Set current directory to this shell's initial directory if one was defined.
12.209.1.87 emacspeak-wizards-shell-directory-set
emacspeak-wizards-shell-directory-set
                                                                     [Command]
     C-e x ,
     \langle fn \rangle x,
     Define current directory as this shell's project directory.
12.209.1.88 emacspeak-wizards-shell-toggle
emacspeak-wizards-shell-toggle
                                                                     [Command]
     C-e < f11>
     C-; C-j
```

12.209.1.89 emacspeak-wizards-show-eval-result

directory of the previously current buffer.

<fn> <f11> C-x @ h C-j

Switch to shell and cd to

```
emacspeak-wizards-show-eval-result (form) [Command]

M-ESC:
Pretty-print and view Lisp evaluation results.

(fn FORM)
```

12.209.1.90 emacspeak-wizards-show-face

emacspeak-wizards-show-face (face)

[Command]

Show properties of face.

(fn FACE)

12.209.1.91 emacspeak-wizards-show-memory-used

emacspeak-wizards-show-memory-used

[Command]

Convenience command to view state of memory used in this session so far.

12.209.1.92 emacspeak-wizards-speak-iso-datetime

emacspeak-wizards-speak-iso-datetime (iso) Speak ISO date-time. [Command]

(fn ISO)

12.209.1.93 emacspeak-wizards-squeeze-blanks

emacspeak-wizards-squeeze-blanks (start end)

[Command]

 $C-e \times 1$

 $< fn > x \mid$

Squeeze multiple blank lines.

(fn START END)

12.209.1.94 emacspeak-wizards-swap-fg-and-bg

emacspeak-wizards-swap-fg-and-bg

[Command]

C-h =

<f1> =

<help> =

Swap foreground and background.

12.209.1.95 emacspeak-wizards-term

emacspeak-wizards-term (create)

[Command]

C-; C-a

C-x @ h C-a

Switch to an ansi-term buffer or create one.

With prefix arg, always creates a new terminal.

Otherwise cycles through existing terminals, creating the first term if needed.

(fn CREATE)

12.209.1.96 emacspeak-wizards-toggle-mm-dd-yyyy-date-pronouncer

emacspeak-wizards-toggle-mm-dd-yyyy-date-pronouncer Toggle pronunciation of mm-dd-yyyy dates.

[Command]

12.209.1.97 emacspeak-wizards-toggle-yyyymmdd-date-pronouncer

 $\verb|emacspeak-wizards-toggle-yyyymmdd-date-pronouncer|\\$

[Command]

Toggle pronunciation of yyyymmdd dates.

12.209.1.98 emacspeak-wizards-tune-in-radio-browse

emacspeak-wizards-tune-in-radio-browse (&optional category)

[Command]

C-, t

C-x @ a t

Browse Tune-In Radio.

Optional interactive prefix arg 'category' prompts for a category.

(fn &optional CATEGORY)

12.209.1.99 emacspeak-wizards-tune-in-radio-search

emacspeak-wizards-tune-in-radio-search

[Command]

C-, s

C-x @ a s

Search Tune-In Radio.

12.209.1.100 emacspeak-wizards-units

emacspeak-wizards-units

[Command]

С-е х и

<fn> x u

Run units.

12.209.1.101 emacspeak-wizards-vc-n

emacspeak-wizards-vc-n

[Command]

Accelerator for VC viewer.

12.209.1.102 emacspeak-wizards-vc-view-mode

emacspeak-wizards-vc-view-mode

[Command]

Major mode for interactively viewing virtual console contents.

key binding

_

C-l emacspeak-wizards-vc-viewer-refresh

In addition to any hooks its parent mode 'special-mode' might have run, this mode runs the hook 'emacspeak-wizards-vc-view-mode-hook', as the final or penultimate step during initialization.

12.209.1.103 emacspeak-wizards-vc-viewer

emacspeak-wizards-vc-viewer (console)

[Command]

C-e x v

 $\langle fn \rangle x v$

View contents of virtual console.

(fn CONSOLE)

12.209.1.104 emacspeak-wizards-vc-viewer-refresh

emacspeak-wizards-vc-viewer-refresh

[Command]

Refresh view of VC we're viewing.

12.209.1.105 emacspeak-wizards-view-buffers-filtered-by-m-player-mode

emacspeak-wizards-view-buffers-filtered-by-m-player-mode [Command]

C-; :

C-x @ h :

Buffer menu filtered by m-player mode.

12.209.1.106 emacspeak-wizards-view-buffers-filtered-by-this-mode

emacspeak-wizards-view-buffers-filtered-by-this-mode

[Command]

C-z b

C-.m

C-' m

C-, c

C-x @ a c

C-x @ s m

Buffer menu filtered by mode of current-buffer.

12.209.2 emacspeak-wizards Options

User Option emacspeak-iex-api-key

[Variable]

Web API key for IEX Finance access. See IEX Login Console at https://iexcloud.io/cloud-login/ for how to get an API key.

User Option emacspeak-speak-telephone-directory [Variable] File holding telephone directory. This is just a text file, and we use grep to search it.

User Option emacspeak-wizards-alpha-vantage-api-key [Variable]

API Key used to retrieve stock data from alpha-vantage. Visit https://www.alphavantage.co/support/#api-key to get your key.

User Option emacspeak-wizards-find-switches-widget Widget to get find switch.

[Variable]

User Option emacspeak-wizards-pdf-to-text-options options to Command for running pdftotext.

[Variable]

User Option emacspeak-wizards-personal-portfolio [Variable] Set this to the stock tickers you want to check. Default is GAFA. Tickers are separated by white-space and are automatically sorted in lexical order with duplicates removed when saving.

User Option emacspeak-wizards-project-shells List of shell-name/initial-directory pairs. [Variable]

User Option emacspeak-wizards-remote-workstation Name of remote workstation.

[Variable]

12.210 emacspeak-woman

WOMAN == Man pages implemented in Emacs Lisp

12.211 emacspeak-xkcd

XKCD == XKCD In Emacs View XKCD comics in Emacs. Speech enables package xkcd Augments it by displaying the alt text and the transcript.

12.211.1 Emacspeak-Xkcd Commands

12.211.1.1 emacspeak-xkcd-open-explanation-browser

${\tt emacspeak-xkcd-open-explanation-browser}$

[Command]

Open explanation of current xkcd in default browser

12.212 emacspeak-xref

XREF == Cross-references in source code. This is part of Emacs 25. This module speechenables xref

12.213 emacspeak-xslt

libxml and libxsl are XML libraries for GNOME. xsltproc is a xslt processor using libxsl this module defines routines for applying xsl transformations using xsltproc

12.213.1 Emacspeak-Xslt Commands

12.213.1.1 emacspeak-xslt-view

emacspeak-xslt-view (style url)

[Command]

Browse URL with specified XSL style.

(fn STYLE URL)

12.213.1.2 emacspeak-xslt-view-file

emacspeak-xslt-view-file (style file)

[Command]

Transform 'file' using 'style' and preview via browse-url.

(fn STYLE FILE)

12.213.1.3 emacspeak-xslt-view-region

 ${\tt emacspeak-xslt-view-region} \ (\textit{style start end \&optional}$

[Command]

unescape-charent)

Browse XML region with specified XSL style.

(fn STYLE START END & optional UNESCAPE-CHARENT)

12.213.1.4 emacspeak-xslt-view-xml

emacspeak-xslt-view-xml (style url &optional unescape-charent)

[Command]

Browse XML URL with specified XSL style.

(fn STYLE URL &optional UNESCAPE-CHARENT)

12.214 emacspeak-yaml

YAML == Yet Another Markup Language This module speech-enables yaml-mode.

12.215 emacspeak-yasnippet

YASNIPPET == Template based editing using snippets.

12.216 espeak-voices

This module defines the various voices used in voice-lock mode by the ESpeak TTS engine.

12.216.1 Espeak-Voices Commands

12.216.1.1 espeak

espeak

[Command]

C-e d C-e

<fn> d C-e

Start ESpeak.

12.216.2 espeak-voices Options

User Option espeak-default-speech-rate Default speech rate for eSpeak.

[Variable]

12.217 extra-muggles

MUGGLES == Emacspeak spells for power-users. These are extra hydras that I dont use very often, And are being moved here from emacspeak-muggles to save time at startup.

This module implements no new functionality — contrast with emacspeak-wizards. Instead, it uses package hydra to provide convenience key-bindings that access existing Emacspeak functionality.

12.217.1 Extra-Muggles Commands

12.217.1.1 emacspeak-muggles-emacspeak-m-player-mode-map-cmd

 $\verb|emacspeak-muggles-emacspeak-m-player-mode-map-cmd|\\$

[Command]

s-m

Temporarily use keymap emacspeak-m-player-mode-map

12.217.1.2 emacspeak-muggles-info-summary/body

emacspeak-muggles-info-summary/body

[Command]

Call the body in the "emacspeak-muggles-info-summary" hydra.

The heads for the associated hydra are:

```
"]":
       'Info-forward-node',
"[":
       'Info-backward-node',
"n":
       'Info-next',
"p":
       'Info-prev',
"s":
       'Info-search',
"S":
       'Info-search-case-sensitively',
"]":
       'Info-history-back',
"r":
       'Info-history-forward',
"H":
       'Info-history',
"t":
       'Info-top-node'.
"<":
       'Info-top-node',
">":
       'Info-final-node',
"u":
       'Info-up',
"^":
       'Info-up',
"m":
        'Info-menu',
"g":
       'Info-goto-node',
"b":
       'beginning-of-buffer',
"e":
       'end-of-buffer',
"f":
       'Info-follow-reference',
```

```
"i":
      'Info-index',
",":
      'Info-index-next',
"I":
       'Info-virtual-index',
"T":
       'Info-toc',
"d":
       'Info-directory',
"c":
       'Info-copy-current-node-name',
"C":
       'clone-buffer',
"a":
       'info-apropos',
"1":
       'Info-nth-menu-item',
"2":
       'Info-nth-menu-item',
"3":
       'Info-nth-menu-item',
"4":
       'Info-nth-menu-item',
"5":
       'Info-nth-menu-item',
"6":
       'Info-nth-menu-item',
"7":
       'Info-nth-menu-item',
"8":
       'Info-nth-menu-item',
"9":
       'Info-nth-menu-item',
"?":
       'Info-summary',
"h":
       'Info-help',
"q":
       'quit-window',
"C-g":
         'nil'
```

The body can be accessed via 'emacspeak-muggles-info-summary/body'.

12.217.1.3 emacspeak-muggles-m-player/body

```
emacspeak-muggles-m-player/body
```

[Command]

s-;

Call the body in the "emacspeak-muggles-m-player" hydra.

The heads for the associated hydra are:

```
":":
      'emacspeak-m-player',
"+":
       'emacspeak-m-player-volume-up',
".":
      'emacspeak-m-player-backward-10s',
"%":
       'emacspeak-m-player-display-percent',
"-":
      'emacspeak-m-player-volume-down',
".":
      'emacspeak-m-player-forward-10s',
"<":
       'emacspeak-m-player-backward-1min',
             'emacspeak-m-player-forward-1min',
"<down>":
"<end>":
           'emacspeak-m-player-end-of-track',
"<home>":
             'emacspeak-m-player-beginning-of-track',
           'emacspeak-m-player-backward-10s',
"<left>":
            'emacspeak-m-player-forward-10min',
"<next>":
            'emacspeak-m-player-backward-10min',
"<pri>":
"<right>":
            'emacspeak-m-player-forward-10s',
"<up>":
          'emacspeak-m-player-backward-1min',
```

```
"=":
       'emacspeak-m-player-volume-up',
">":
       'emacspeak-m-player-forward-1min',
"?":
       'emacspeak-m-player-display-position',
"C":
       'emacspeak-m-player-clear-filters',
"C-m":
          'emacspeak-m-player-load',
"DEL":
          'emacspeak-m-player-reset-speed',
"L":
       'emacspeak-m-player-load-file',
"M-l":
         'emacspeak-m-player-load-playlist',
"O":
       'emacspeak-m-player-reset-options',
"P":
       'emacspeak-m-player-apply-reverb-preset',
"Q":
       'emacspeak-m-player-quit',
"R":
       'emacspeak-m-player-edit-reverb',
"S":
       'emacspeak-amark-save',
"SPC":
          'emacspeak-m-player-pause',
"[":
      'emacspeak-m-player-slower',
"]":
      'emacspeak-m-player-faster',
"a":
       'emacspeak-m-player-amark-add',
"b":
       'emacspeak-m-player-balance',
"c":
       'emacspeak-m-player-slave-command',
"d":
       'emacspeak-m-player-delete-filter',
"e":
       'emacspeak-m-player-add-equalizer',
"f":
      'emacspeak-m-player-add-filter',
"g":
       'emacspeak-m-player-seek-absolute',
"j":
      'emacspeak-m-player-amark-jump',
"]":
      'emacspeak-m-player-get-length',
"m":
       'emacspeak-m-player-mode-line',
"n":
       'emacspeak-m-player-next-track',
"o":
       'emacspeak-m-player-customize-options',
"p":
       'emacspeak-m-player-previous-track',
"q":
       'bury-buffer',
"r":
       'emacspeak-m-player-seek-relative',
"s":
       'emacspeak-m-player-scale-speed',
"t":
       'emacspeak-m-player-play-tracks-jump',
"u":
       'emacspeak-m-player-url',
"v":
       'emacspeak-m-player-volume-change',
"(":
       'emacspeak-m-player-left-channel',
")":
       'emacspeak-m-player-right-channel',
"{":
       'emacspeak-m-player-half-speed',
"}":
       'emacspeak-m-player-double-speed'
```

The body can be accessed via 'emacspeak-muggles-m-player/body'.

12.217.1.4 emacspeak-muggles-outliner/body

```
emacspeak-muggles-outliner/body
```

[Command]

C-. o

"<left>":

"<right>":

'sp-forward-barf-sexp', 'sp-forward-slurp-sexp'.

"<up>": 'sp-splice-sexp-killing-backward',

"?": '(emacspeak-hydra-self-help "emacspeak-muggles-smartparens")',

```
C-x @ s o
     Call the body in the "emacspeak-muggles-outliner" hydra.
     The heads for the associated hydra are:
     "?":
            '(emacspeak-hydra-self-help "emacspeak-muggles-outliner")',
     "q":
            'outline-hide-sublevels',
     "t":
            'outline-hide-body',
     "o":
            'outline-hide-other',
     "c":
            'outline-hide-entry',
     "]":
            'outline-hide-leaves',
     "d":
            'outline-hide-subtree',
     "a":
            'outline-show-all',
     "e":
            'outline-show-entry',
     "i":
            'outline-show-children',
     "k":
            'outline-show-branches',
     "s":
            'outline-show-subtree',
     "u":
            'outline-up-heading',
     "n":
            'outline-next-visible-heading',
     "p":
            'outline-previous-visible-heading',
     "f":
            'outline-forward-same-level',
     "b":
            'outline-backward-same-level',
     "z":
            'nil'
     The body can be accessed via 'emacspeak-muggles-outliner/body'.
12.217.1.5 emacspeak-muggles-pianobar-key-map-cmd
emacspeak-muggles-pianobar-key-map-cmd
                                                                            [Command]
     Temporarily use keymap pianobar-key-map
12.217.1.6 emacspeak-muggles-smartparens/body
emacspeak-muggles-smartparens/body
                                                                            [Command]
     Call the body in the "emacspeak-muggles-smartparens" hydra.
     The heads for the associated hydra are:
     п'п.
            '(lambda (_) (interactive "P") (sp-wrap-with-pair "'"))',
            '(lambda (_) (interactive "P") (sp-wrap-with-pair "("))',
                   'sp-splice-sexp-killing-forward',
     "<down>":
```

[Command]

```
"C-<left>":
              'sp-backward-barf-sexp',
"C-<right>":
                'sp-backward-slurp-sexp',
"R":
        'sp-splice-sexp',
""":
       '(lambda (_) (interactive "P") (sp-wrap-with-pair "\""))',
"a":
       'beginning-of-defun',
"b":
       'sp-backward-sexp',
"c":
       'sp-convolute-sexp',
"d":
       'sp-down-sexp',
"e":
       'end-of-defun',
"f":
       'sp-forward-sexp',
       'sp-indent-defun',
"i":
"j":
       'sp-join-sexp',
"k":
       'sp-kill-sexp',
"n":
       'sp-next-sexp',
"p":
       'sp-previous-sexp',
"r":
       'sp-splice-sexp-killing-around',
"s":
       'sp-split-sexp',
"t":
       'sp-transpose-sexp',
"u":
       'sp-backward-up-sexp',
\mathbf{w}:
       'sp-copy-sexp',
"{":
       '(lambda (_) (interactive "P") (sp-wrap-with-pair "{"))'
```

The body can be accessed via 'emacspeak-muggles-smartparens/body'.

12.217.1.7 emacspeak-muggles-view/body

```
emacspeak-muggles-view/body
     C-. v
     C-' v
     C-x @ s v
     Call the body in the "emacspeak-muggles-view" hydra.
     The heads for the associated hydra are:
     "?":
             '(emacspeak-hydra-self-help "emacspeak-muggles-view")',
     "$":
             'set-selective-display',
     "%":
             'View-goto-percent',
     п'п:
            'register-to-point',
     "(":
            'backward-sexp',
     ")":
            'forward-sexp',
     ".":
            'set-mark-command',
     "/":
            'View-search-regexp-forward',
     "<":
             'beginning-of-buffer',
     "<return>": 'nil',
     "=":
             'what-line',
     ">":
             'end-of-buffer',
```

```
"@":
        'View-back-to-mark',
"A":
        'beginning-of-defun',
"DEL":
           'View-scroll-page-backward',
"E":
       'end-of-defun',
"J":
       '(emacspeak-hide-or-expose-block 'all)',
"SPC":
          'View-scroll-page-forward',
       'backward-page',
"\":
       'View-search-regexp-backward',
"]":
       'forward-page',
"a":
       'move-beginning-of-line',
"b":
       'backward-word',
"c":
       'emacspeak-speak-char',
"d":
       'View-scroll-half-page-forward',
"e":
       'move-end-of-line',
"f":
       'forward-word',
"g":
       'goto-line',
"h":
       'backward-char',
"i":
       'emacspeak-speak-mode-line',
"j":
       'next-line',
"k":
       'previous-line',
"]":
       'forward-char',
"m":
       'point-to-register',
"n":
       'View-search-last-regexp-forward',
"p":
       'View-search-last-regexp-backward',
"q":
       'nil',
"r":
       'copy-to-register',
"s":
       'emacspeak-hydra-toggle-talkative',
"t":
       '(recenter 0)',
"u":
       'View-scroll-half-page-backward',
"w":
       'emacspeak-speak-word',
"x":
       'exchange-point-and-mark',
"y":
       'kill-ring-save',
"{":
       'backward-paragraph',
"}":
       'forward-paragraph'
```

The body can be accessed via 'emacspeak-muggles-view/body'.

12.217.1.8 emacspeak-muggles-vuiet/body

```
emacspeak-muggles-vuiet/body [Command] 
 C-; v 
 C-x @ h v 
 Call the body in the "emacspeak-muggles-vuiet" hydra.
```

The heads for the associated hydra are:

```
'vuiet-playing-track-lyrics',
       'vuiet-player-volume-inc',
       'vuiet-player-volume-dec',
"A":
       'vuiet-play-artist-loved-tracks',
п'п.
       'vuiet-play-loved-tracks',
",":
       'vuiet-seek-backward',
".":
       'vuiet-seek-forward',
"C-s":
         'vuiet-artist-info-search',
L'':
       'vuiet-playing-artist-lastfm-page',
"SPC": 'vuiet-play-pause',
"a":
       'vuiet-artist-info',
"i":
       'emacspeak-vuiet-track-info',
"]":
       'vuiet-love-track',
"n":
       'vuiet-next',
"p":
       'vuiet-play-artist',
"r":
       'vuiet-replay',
"s":
       'vuiet-stop',
"t":
       'vuiet-play-track',
"u":
       'vuiet-unlove-track'
```

The body can be accessed via 'emacspeak-muggles-vuiet/body'.

12.217.1.9 emacspeak-origami/body

```
emacspeak-origami/body
```

[Command]

```
C-, /
C-x @ a /
```

Call the body in the "emacspeak-origami" hydra.

The heads for the associated hydra are:

```
"o": 'origami-open-node',
"c": 'origami-close-node',
"n": 'origami-next-fold',
"p": 'origami-previous-fold',
"f": 'origami-forward-toggle-node',
"a": 'origami-toggle-all-nodes'
```

The body can be accessed via 'emacspeak-origami/body'.

12.218 g-utils

Common Code e.g. helper functions. Used by modules like gphoto, gblogger etc.

12.218.1 g-utils Options

User Option g-atom-view-xsl

[Variable]

XSLT transform to convert Atom feed to HTML.

User Option g-cookie-jar

[Variable]

Cookie jar used for Google services. Customize this to live on your local disk.

User Option g-curl-common-options

[Variable]

Common options to pass to all Curl invocations.

User Option g-curl-debug

[Variable]

Set to T to see Curl stderr output.

User Option g-url-under-point

[Variable]

Function used to get URL from current context.

User Option g-xslt-program

[Variable]

XSLT Processor.

12.219 gm-nnir

Makes search GMail more convenient. IMap search operators, GMail search extensions.

12.219.1 Gm-Nnir Commands

12.219.1.1 gm-nnir-group-make-gmail-group

gm-nnir-group-make-gmail-group (query)

[Command]

Use GMail search syntax exclusively.

See https://support.google.com/mail/answer/7190?hl=en for syntax.

note: nnimap-address etc are available as local vars if needed in these functions.

(fn QUERY)

12.220 gmaps

Implements the Google Maps API

12.220.1 Gmaps Commands

12.220.1.1 gmaps

gmaps

[Command]

C-; e

C-x @ h e

This function has :around advice: 'ad-Advice-gmaps'.

Google Maps Interaction.

(fn)

12.220.1.2 gmaps-bicycling-directions

gmaps-bicycling-directions (origin destination)

[Command]

This function has :around advice: 'ad-Advice-gmaps-bicycling-directions'.

Biking directions from Google Maps.

(fn ORIGIN DESTINATION)

12.220.1.3 gmaps-directions

gmaps-directions (origin destination mode)

[Command]

Display directions obtained from Google Maps.

(fn ORIGIN DESTINATION MODE)

12.220.1.4 gmaps-driving-directions

gmaps-driving-directions (origin destination)

[Command]

This function has :around advice: 'ad-Advice-gmaps-driving-directions'.

Driving directions from Google Maps.

(fn ORIGIN DESTINATION)

12.220.1.5 gmaps-locations-load

gmaps-locations-load

[Command]

Load saved GMaps locations.

12.220.1.6 gmaps-locations-save

gmaps-locations-save

[Command]

Save GMaps Locations.

12.220.1.7 gmaps-mode

gmaps-mode

[Command]

A Google Maps front-end for the Emacspeak desktop.

In addition to any hooks its parent mode 'special-mode' might have run, this mode runs the hook 'gmaps-mode-hook', as the final or penultimate step during initialization.

key binding

TAB forward-button

ESC Prefix Command

SPC gmaps-place-details

[backward-page

forward-page

b gmaps-bicycling-directions

c gmaps-set-current-location

d gmaps-driving-directions

f gmaps-set-current-filter

n gmaps-places-nearby

r gmaps-set-current-radius

s gmaps-places-search

t gmaps-transit-directions

w gmaps-walking-directions

M-i backward-button

12.220.1.8 gmaps-place-details

gmaps-place-details

[Command]

This function has :around advice: 'ad-Advice-gmaps-place-details'.

Display details for place at point.

Insert reviews if already displaying details.

(fn)

12.220.1.9 gmaps-place-reviews

gmaps-place-reviews

[Command]

Display reviews for place at point.

Place details need to have been expanded first.

12.220.1.10 gmaps-places-nearby

gmaps-places-nearby (&optional clear-filter)

[Command]

This function has :around advice: 'ad-Advice-gmaps-places-nearby'.

Find places near current location.

Uses default radius, optional interactive prefix arg clears any active filters.

(fn &optional CLEAR-FILTER)

12.220.1.11 gmaps-places-search

gmaps-places-search (query &optional clear-filter)

[Command]

This function has :around advice: 'ad-Advice-gmaps-places-search'.

Perform a places search.

Use this only if you dont know the locality of the place you're looking for.

Optional prefix arg clears any active filters.

(fn QUERY & optional CLEAR-FILTER)

12.220.1.12 gmaps-set-current-filter

gmaps-set-current-filter (&optional all)

[Command]

Set up filter in current buffer.

Optional interactive prefix arg prompts for all filter fields.

(fn &optional ALL)

12.220.1.13 gmaps-set-current-location

gmaps-set-current-location (address)

[Command]

This function has :around advice: 'ad-Advice-gmaps-set-current-location'.

Set current location.

(fn ADDRESS)

12.220.1.14 gmaps-set-current-radius

gmaps-set-current-radius (radius)

[Command]

This function has around advice: 'ad-Advice-gmaps-set-current-radius'.

Set current radius

(fn RADIUS)

12.220.1.15 gmaps-transit-directions

gmaps-transit-directions (origin destination)

[Command]

This function has around advice: 'ad-Advice-gmaps-transit-directions'.

Transit directions from Google Maps.

(fn ORIGIN DESTINATION)

12.220.1.16 gmaps-walking-directions

gmaps-walking-directions (origin destination)

[Command]

This function has :around advice: 'ad-Advice-gmaps-walking-directions'.

Walking directions from Google Maps.

(fn ORIGIN DESTINATION)

12.220.2 gmaps Options

User Option gmaps-api-key

[Variable]

Maps API key — goto https://code.google.com/apis/console to get one.

User Option gmaps-my-address

[Variable]

Location address. Setting this updates gmaps-my-location coordinates via geocoding.

12.221 ladspa

This module uses tools from the Ladspa SDK to expose Ladspa plugins in a consistent way to elisp. The goal is to make it easy to inspect Ladspa Plugins, And invoke them easily from Ladspa host applications such as MPlayer. See http://emacspeak.blogspot.com/2015/12/a-ladspa-work-bench-for-emacspeak.html

12.221.1 Ladspa Commands

12.221.1.1 ladspa

ladspa (&optional refresh)

[Command]

Ladspa workbench.

(fn &optional REFRESH)

12.221.1.2 ladspa-analyse-plugin-at-point

${\tt ladspa-analyse-plugin-at-point}$

[Command]

Analyse plugin at point.

12.221.1.3 ladspa-edit-control

ladspa-edit-control

[Command]

Edit Ladspa control at point by prompting for control values.

12.221.1.4 ladspa-instantiate

ladspa-instantiate

[Command]

Instantiate plugin at point by prompting for control values.

12.221.1.5 ladspa-mode

ladspa-mode

[Command]

A Ladspa workbench for the Emacspeak desktop.

In addition to any hooks its parent mode 'special-mode' might have run, this mode runs the hook 'ladspa-mode-hook', as the final or penultimate step during initialization.

key binding

RET ladspa-instantiate SPC ladspa-analyse-plugin-at-point a emacspeak-m-player-add-ladspa d emacspeak-m-player-delete-ladspa e ladspa-edit-control n next-line p previous-line

12.222 mac-voices

This module defines the various voices used in voice-lock mode by Mac TTS.

12.222.1 mac-voices Options

User Option mac-default-speech-rate Default speech rate for mac.

[Variable]

12.223 outloud-voices

Interface to outloud server. This module is IBM ViaVoice Outloud specific.

12.223.1 Outloud-Voices Commands

12.223.1.1 outloud

outloud (&optional device)

[Command]

C-e d C-o

<fn> d C-o Start Outloud.

(fn &optional DEVICE)

12.223.2 outloud-voices Options

User Option outloud-default-speech-rate Default speech rate.

[Variable]

12.224 plain-voices

This module defines the various voices used in voice-lock mode. This module is Plain i.e. suitable for a device for which you haven't yet implemented appropriate voice-locking controls

12.225 soundscape

Soundscapes https://en.wikipedia.org/wiki/Soundscape define an acoustic environment. Boodler at http://boodler.org is a Python-based SoundScape generator. To use

this module, first install boodler. Then install the soundscape packages (*.boop) files available at http://boodler.org/lib. Make sure boodler works and produces audio in your environment. finally install the Boodler packages from emacspeak/scapes from the Emacspeak GitHub repository by running cd emacspeak/scapes; make

When boodler is set up and all packages installed, copy file emacspeak/scapes/soundscapes to ~/.boodler/Collection. The above file lists all installed SoundScapes. Directory emacspeak/scapes also contains additional Boodler Agents and SoundScapes that I have created for use with Emacspeak.

Module soundscape.el defines Emacs conveniences for running

12.225.1 Soundscape Commands

12.225.1.1 soundscape

soundscape (scape)

[Command]

Play soundscape.

(fn SCAPE)

12.225.1.2 soundscape-kill

soundscape-kill

[Command]

Stop all running soundscapes.

12.225.1.3 soundscape-listener

soundscape-listener (&optional restart)

[Command]

Start a Soundscape listener.

Listener is loaded with all Soundscapes defined in 'soundscape-default-theme' . Optional interactive prefix arg restarts the listener.

(fn & optional RESTART)

12.225.1.4 soundscape-listener-shutdown

soundscape-listener-shutdown

[Command]

Shutdown listener.

12.225.1.5 soundscape-remote

soundscape-remote (names)

[Command]

Activate scapes named 'names' — a list of strings.

(fn NAMES)

12.225.1.6 soundscape-restart

soundscape-restart (&optional device)

[Command]

C-. r

C-' r

C-x@sr

Restart Soundscape environment.

With prefix arg 'device', prompt for a alsa/ladspa device.

This is then saved to soundscape-device for future use.

(fn &optional DEVICE)

12.225.1.7 soundscape-stop

soundscape-stop (scape)

[Command]

Stop running Soundscape.

(fn SCAPE)

12.225.1.8 soundscape-theme

soundscape-theme

[Command]

Shows default theme in a special buffer.

12.225.1.9 soundscape-toggle

soundscape-toggle

[Command]

C−. t

C-' t

C-x @ s t

Toggle automatic SoundScapes.

Run command M-x soundscape-theme to see the default mode->mood mapping.

12.225.1.10 soundscape-update-mood

 $\verb|soundscape-update-mood| (\& optional| prompt-mode)|$

[Command]

C-. u

C-'u

C-x @ s u

Update mood/scape mapping for current mode.

The updated mapping is not persisted.

Optional interactive prefix arg 'prompt-mode' prompts for the mode.

(fn &optional PROMPT-MODE)

12.225.2 soundscape Options

User Option $soundscape{-data}$

[Variable]

Soundscape data directory.

User Option soundscape-device

[Variable]

Alsa sound device to use for soundscapes.

User Option soundscape-idle-delay

[Variable]

Number of seconds of idle time before soundscapes are synchronized with current mode.

User Option soundscape-manager-options

[Variable]

User customizable options list passed to boodler. Defaults specify also as the output and set master volume to 0.5

12.226 sox

This module defines a convenient speech-enabled interface for editing mp3 and wav files using SoX.

Launching M-x sox creates a special interaction buffer that provides single keystroke commands for editing and applying effects to a selected sound file. For adding mp3 support to sox, do

sudo apt-get libsox-fmt-mp3 install

This module provides support for ladspa effects using module ladspa.el. To use ladspa effects with SoX, you need a relatively new build of Sox; The stock SoX that is package for Debian/Ubuntu does not always work. This module can be used independent of Emacspeak.

12.226.1 Sox Commands

12.226.1.1 sox-add-effect

sox-add-effect (name)

[Command]

Adds effect at the end of the effect list

(fn NAME)

12.226.1.2 sox-delete-effect-at-point

sox-delete-effect-at-point

[Command]

This function has :around advice: 'ad-Advice-sox-delete-effect-at-point'.

Delete effect at point.

(fn)

12.226.1.3 sox-edit-effect-at-point

sox-edit-effect-at-point

[Command]

Edit effect at point.

12.226.1.4 sox-mode

sox-mode [Command]

An audio workbench for the Emacspeak desktop.

In addition to any hooks its parent mode 'special-mode' might have run, this mode runs the hook 'sox-mode-hook', as the final or penultimate step during initialization.

key binding

12.226.1.5 sox-open-file

sox-open-file (snd-file)

[Command]

This function has :around advice: 'ad-Advice-sox-open-file'.

Open specified snd-file on the Audio Workbench.

(fn SND-FILE)

12.226.1.6 sox-play

sox-play

Play sound .

[Command]

12.226.1.7 sox-refresh

sox-refresh [Command]

This function has around advice: 'ad-Advice-sox-refresh'.

Redraw Audio Workbench.

(fn)

12.226.1.8 sox-save

sox-save (save-file)

Save context to file after prompting.

(fn SAVE-FILE)

12.226.1.9 sox-set-effect

sox-set-effect (name)

[Command]

[Command]

Set effect.

(fn NAME)

12.226.1.10 sox-show-timestamp

sox-show-timestamp

[Command]

Show timestamp in stream.

12.226.1.11 sox-stop

sox-stop

[Command]

Stop currently playing sound from current context.

12.227 sox-gen

Provides binaural audio along with pre-defined themes. This module can be used independent of Emacspeak.

12.227.1 Binaural Beats Using SoX

A binaural beat is an auditory illusion perceived when two different pure-tone sine waves, both with frequencies lower than 1500 Hz, with less than a 40 Hz difference between them, are presented to a listener dichotically (one through each ear). For example, if a 530 Hz pure tone is presented to a subject's right ear, while a 520 Hz pure tone is presented to the subject's left ear, the listener will perceive the auditory illusion of a third tone, in addition to the two pure-tones presented to each ear. The third sound is called a binaural beat, and in this example would have a perceived pitch correlating to a frequency of 10 Hz, that being the difference between the 530 Hz and 520 Hz pure tones presented to each ear. For more details, see https://en.wikipedia.org/wiki/Binaural_beats.

This module implements a set of user-facing commands for generating binaural beats. The commands are organized from high-level commands that play predefined binaural beats to lower-level commands that can be used to create new effect sequences.

All binaural beat sequences are played with a relatively low gain — they are designed to be heard in the background and when effective blend fully into the background. You can increase the overall volume of all binaural beat sequences by customizing

User Option sox-binaural-gain-offset to a positive value — default is 0.

[Variable]

12.227.1.1 High-Level Commands For Pre-Defined Binaural Beats

These commands can be called directly to play one of the predefined binaural beats.

- sox-rev-up: A set of binaural beats designed for use at the start of the day. Transitions from *Dream -> Think ->Act -> Focus*.
- sox-wind-down: A set of binaural beats for winding down at the end of the day. This can be thought of as the reverse of sox-rev-up and the sequence transitions from Act -> Think -> Dream -> Sleep.
- sox-turn-down: Designed for falling asleep. This sequence starts with a short period of *Dream* before moving to *Sleep*.
- sox-relax: A variant of the previous sequence, sox-relax spends equal time in *Dream* and *Sleep*.

- sox-binaural: Provide a completion-based front-end to playing any one of the predefined binaural effects (*Delta*, *Theta*, *Alpha*, *Beta*, or *Gamma*. The previously defined sequences are built up using these effects.
- sox-beats-binaural: Plays a collection of binaural beats, prompting for carrier and beat frequencies for each tone. The predefined sequences listed earlier were created after first generating experimental beat-sequences using this command.
- sox-slide-binaural: Prompts for two binaural effects (see above) and generates a binaural beat that *slides* from the first effect to the second over a specified duration.
- sox-chakras: Pick amongst one of a predefined set of sequences designed for *Chakra* meditation.
- sox-tone-binaural: Generate a simple binaural beat with a single carrier frequency.
- sox-tone-slide-binaural: Generate a tone that slides from one binaural beat to another.

12.227.2 Sox-Gen Commands

12.227.2.1 sox-beats-binaural

sox-beats-binaural (length beat-spec-list gain)

[Command]

Play binaural audio with beat-spec specifying the various tones.

Param 'beat-spec-list' is a list of '(carrier beat) tupples.

(fn LENGTH BEAT-SPEC-LIST GAIN)

12.227.2.2 sox-binaural

sox-binaural (name duration)

[Command]

C-, b

C-x @ a b

Play specified binaural effect.

(fn NAME DURATION)

12.227.2.3 sox-chakras

sox-chakras (theme duration)

[Command]

Play each chakra for specified duration.

Parameter 'theme' specifies variant.

(fn THEME DURATION)

12.227.2.4 sox-relax

sox-relax (length)

[Command]

Play relax set of binaural beats for 'length' seconds.

(fn LENGTH)

12.227.2.5 sox-rev-up

sox-rev-up (length)

[Command]

Play rev-up set of binaural beats for 'length' seconds.

(fn LENGTH)

12.227.2.6 sox-slide-binaural

sox-slide-binaural (name-1 name-2 duration)

[Command]

Play specified binaural slide from 'name-1' to 'name-2'.

(fn NAME-1 NAME-2 DURATION)

12.227.2.7 sox-tone-binaural

sox-tone-binaural (length freq beat gain)

[Command]

Play binaural audio with carrier frequency 'freq', beat 'beat', and gain 'gain'.

(fn LENGTH FREQ BEAT GAIN)

12.227.2.8 sox-tone-slide-binaural

sox-tone-slide-binaural (length freq beat-start beat-end gain)

[Command]

Play binaural audio with carrier frequency 'freq', beat 'beat-start' -> 'beat-end', and gain 'gain'.

(fn LENGTH FREQ BEAT-START BEAT-END GAIN)

12.227.2.9 sox-turn-down

sox-turn-down (length)

[Command]

Play turn-down set of binaural beats for 'length' seconds.

(fn LENGTH)

12.227.2.10 sox-wind-down

sox-wind-down (length)

[Command]

Play wind-down set of binaural beats for 'length' seconds.

(fn LENGTH)

12.227.3 sox-gen Options

User Option sox-binaural-gain-offset

[Variable]

User specified offset that is added to default gain when generating tones using SoX, e.g., for binaural beats.

User Option sox-binaural-slider-scale

[Variable]

Scale factor used to compute slide duration when moving from one binaural beat to another.

12.228 tetris

12.229 toy-braille

This is a bit of toy code to write in braille. To try this, load this file ('M-x load-file path/to/toy-braille.el'), then do:

```
M-: (get-toy-braille-string "just a test")
```

That's just a toy, meant as an excuse and maybe a tool to learn a bit of braille, nothing more.

Unicode fonts are needed.

```
You can try:
```

```
M-: (set-default-font "-*-unifont-*-*-*-*-*-*-*-")
```

oı

M-: (set-default-font "-*-clearlyu-*-*-*-*-*-*-iso10646-*")

(it will only work if the relative font is installed and properly configured).

References:

http://www.nbp.org/ic/nbp/braille/index.html

http://www.unicode.org/Public/4.0-Update1/UnicodeData-4.0.1.txt

12.230 voice-defs

Contains just the voice definitions. Voices are defined using the macro defvoice from module voice-setup.

12.230.1 An Overview Of Voice Design

Aural CSS defines 4 primary device-independent dimensions. Average-Pitch, Pitch-Range, Stress, and Richness. There are ten possible values along each dimension (0..9), giving a total of 10,000 possible settings.

Engine-specific modules such as dectalk-voices and outloud-voices map these dimensions to device-specific parameters and are responsible for generating the final device-specific codes.

12.230.2 Creating Distinct Voices Via Aural CSS

Along each dimension, a setting of 5 is mapped to the default setting for the voice as implemented by a given engine. Values on either side of 5 produce opposing effects. This module defines the following effects, which can be conceptualized as pairs.

- A. bolden, lighten
- B. animate, monotone
- C. brighten, smoothen

In addition, we define bolden-and-animate as an auditory analog of bold-italic. The two additional voices indent and annotate predate the above and are retained as two *softer* voices. Finally, there are 4 *overlay* voices, corresponding to the 4 dimensions; these each set one of the dimensions to 8. Thus, we have a total of 25 unique voices defined in this module.

12.230.3 Things to note

- These voices are designed to be distinctive when used in a given utterance.
- Non-goal to be able to identify each distinct voice in isolation.
- Audio-formatting is designed to set apart different types of content so that when used in context, one can easily pick-out distinct parts of the utterance.

12.230.4 voice-defs Options

User	Option voice-animate-extra-settings Settings for voice-animate-extra	[Variable]
User	Option voice-animate-medium-settings Settings for voice-animate-medium	[Variable]
User	Option voice-animate-settings Settings for voice-animate	[Variable]
User	Option voice-annotate-settings Settings for voice-annotate	[Variable]
User	Option voice-bolden-and-animate-settings Settings for voice-bolden-and-animate	[Variable]
User	Option voice-bolden-extra-settings Settings for voice-bolden-extra	[Variable]
User	Option voice-bolden-medium-settings Settings for voice-bolden-medium	[Variable]
User	Option voice-bolden-settings Settings for voice-bolden	[Variable]
User	Option voice-brighten-extra-settings Settings for voice-brighten-extra	[Variable]
User	Option voice-brighten-medium-settings Settings for voice-brighten-medium	[Variable]
User	Option voice-brighten-settings Settings for voice-brighten	[Variable]
User	Option voice-indent-settings Settings for voice-indent	[Variable]

User Option voice-lighten-extra-settings Settings for voice-lighten-extra	[Variable]
User Option voice-lighten-medium-settings Settings for voice-lighten-medium	[Variable]
User Option voice-lighten-settings Settings for voice-lighten	[Variable]
User Option voice-monotone-extra-settings Settings for voice-monotone-extra	[Variable]
User Option voice-monotone-medium-settings Settings for voice-monotone-medium	[Variable]
User Option voice-monotone-settings Settings for voice-monotone	[Variable]
User Option voice-overlay-0-settings Settings for voice-overlay-0	[Variable]
User Option voice-overlay-1-settings Settings for voice-overlay-1	[Variable]
User Option voice-overlay-2-settings Settings for voice-overlay-2	[Variable]
User Option voice-overlay-3-settings Settings for voice-overlay-3	[Variable]
User Option voice-smoothen-extra-settings Settings for voice-smoothen-extra	[Variable]
User Option voice-smoothen-medium-settings Settings for voice-smoothen-medium	[Variable]
User Option voice-smoothen-settings Settings for voice-smoothen	[Variable]

12.231 voice-setup

A voice is to audio as a font is to a visual display. A personality is to audio as a face is to a visual display.

Voice-lock-mode is a minor mode that causes your comments to be spoken in one personality, strings in another, reserved words in another, documentation strings in another, and so on.

Comments will be spoken in 'voice-comment-personality'. Strings will be spoken in 'voice-string-personality'. Function (in their defining forms) will be spoken in 'voice-function-name-personality'. Reserved words will be spoken in 'voice-keyword-personality'.

To audio-format text , use M-x voice-lock-mode. When this minor mode is on, the voices of the current line are updated with every insertion or deletion.

12.231.1 Voice-Lock And Aural CSS

The CSS Speech Style Sheet specification defines a number of abstract device independent voice properties. A setting conforming to the CSS speech specification can be represented in elisp as a structure.

We will refer to this structure as a "speech style". This structure needs to be mapped to device dependent codes to produce the desired effect. This module forms a bridge between emacs packages that wish to implement audio formatting and Emacspeak's TTS module. Emacspeak produces voice change effects by examining the value of text-property 'personality', as well as the face/font at point.

Think of a buffer of formatted text along with the text-property 'personality appropriately set as a "aural display list". Module voice-setup.el help applications like EWW produce audio-formatted output by calling function voice-acss-from-speech-style with a "speech-style" —a structure as defined in this module and get back a symbol that they assign to the value of property 'personality. Emacspeak's rendering engine then does the needful at the time speech is produced. Function voice-acss-from-speech-style does the following: Takes as input a "speech style" (1) Computes a symbol that will be used to refer to this specific speech style. (2) Examines emacspeak's internal voice table to see if this speech style has a voice already defined. If so it returns immediately. Otherwise, it does the additional work of defining a -voice for future use. See its use in this module to see how voices are defined independent of a given TTS engine. How faces map to voices: TTS engine specific modules e.g., dectalk-voices.el and outloud-voices.el map ACSS dimensions to engine-specific codes. Emacspeak modules use voice-setup-add-map when defining face->personality mappings. For use from other modules.

12.231.2 Voice-Setup Commands

12.231.2.1 voice-lock-mode

voice-lock-mode (&optional arg)

[Command]

С-е d v

< fn > d v

Toggle voice lock mode.

If called interactively, toggle 'Voice-Lock mode'. If the prefix argument is positive, enable the mode, and if it is zero or negative, disable the mode.

If called from Lisp, toggle the mode if ARG is 'toggle'. Enable the mode if ARG is nil, omitted, or is a positive number. Disable the mode if ARG is a negative number.

The mode's hook is called both when the mode is enabled and when it is disabled.

(fn &optional ARG)

12.231.2.2 voice-lock-mode-turn-on

voice-lock-mode--turn-on

[Command]

Turn on Voice Lock mode .

12.231.2.3 voice-setup-toggle-silence-personality

voice-setup-toggle-silence-personality

[Command]

C-e M-q

< fn > M-q

Toggle audibility of personality under point .

12.231.3 voice-setup Options

User Option voice-lock-mode-hook

[Variable]

Hook run after entering or leaving 'voice-lock-mode'. No problems result if this variable is not bound. 'add-hook' automatically binds it. (This is true for all hook variables.)

12.232 xbacklight

Provide an emacs front-end to xbacklight. This is a tool that controls the brightness on laptops. To install xbacklight, sudo apt-get install xbacklight

12.232.1 Xbacklight Commands

12.232.1.1 xbacklight-black

xbacklight-black

[Command]

Black screen.

12.232.1.2 xbacklight-decrement

xbacklight-decrement

[Command]

Decrease brightness.

12.232.1.3 xbacklight-get

xbacklight-get

[Command]

Get brightness level.

12.232.1.4 xbacklight-increment

xbacklight-increment

[Command]

Increase brightness.

12.232.1.5 xbacklight-set

xbacklight-set (brightness)

[Command]

Set brightness.

(fn BRIGHTNESS)

12.232.1.6 xbacklight-white

xbacklight-white

[Command]

White screen.

12.233 URL Templates

This section documents a total of 76 URL Templates.

All of these URL templates can be invoked via command M-x emacspeak-url-template-fetch normally bound to C-e u <fn>> u. This command prompts for the name of the template, and completion is available via Emacs' minibuffer completion. Each URL template carries out the following steps:

- Prompt for the relevant information.
- Fetch the resulting URL using an appropriate fetcher.
- Set up the resulting resource with appropriate customizations.

1. AQI From Wunderground

Air quality from Wunderground

2. Air Traffic Control

Find live streams for Air Traffic Control.

3. Airport conditions

Display airport conditions from the FAA.

4. Amazon Product Details By ASIN

Retrieve product details from Amazon by either ISBN or ASIN.

5. Anonymize Google Search

Logout from Google to do an anonymous search.

6. ArchWiki Search

Search Linux ArchWiki

7. BBC Podcast Directory

BBC PodCast Directory

8. BBC World News Summary

BBC World News Summary

9. Baseball Box Scores

Display baseball Play By Play.

10. Baseball Game Details

Display baseball Play By Play.

11. Baseball Game Index

Display baseball Play By Play.

12. Baseball Highlights

Display baseball Video Highlights.

13. Baseball scores

Display baseball scores.

14. Bing News

Bing News results as RSS feed.

15. Bing Search

Bing results as RSS feed.

16. Bloomberg Stock Lookup

Lookup Stock Quote information on Bloomberg. Ticker is of the form goog:us

17. CIA World Fact Book

Open CIA World Fact Book For Specified Country.

18. CNN Content

Filter down to CNN content area.

19. CNN Headlines

News Headlines From CNN

20. CNN Market Data

Market data filtered from CNN Money

21. CNN PodCasts

List CNN Podcast media links.

22. Currency Converter

Currency Converter. Currencies can be a comma-separated list of codes.

23. Dictionary Lookup

Dictionary Lookup

24. Finance Google

Lookup ticker on Google Finance.

25. Finance Summary From Google

Display top stocks from Google Finance.

26. FreeSound

Search FreeSound.

27. GitHub Search

Perform a GitHub Search.

28. GoLang Browse

Browse GoLang package documentation.

29. GoLang Lookup

Lookup GoLang package documentation.

30. GoLang Search

Search GoLang package documentation.

31. Google Basic

Light-weight Google search.

32. Google News Search

Search Google news.

33. Google Scholar

Google Scholar Search

34. Google Trends

Google Trends

35. Google Weather

Light-weight Google search.

36. Guardian RSS Feeds Directory

Guardian Feeds Directory

37. Hacker News Frontpage

Display Hacker News Front Page

38. Hacker News Search

Display Hacker News Front Page

39. Hoogle Haskell API Search

Haskell API Search against a local server.

40. MLB Scorecard

Show MLB Scorecard.

41. MLB standings

Display MLB standings.

42. Money Headlines From CNN

Money Headlines From CNN

43. **NBA** standings

Display NBA standings.

44. NLS Bard Bookshelf

NLS Bard Catalog: Most Popular. Login once before using this template.

45. NLS Bard Popular

NLS Bard Catalog: Most Popular. Login once before using this template.

46. NLS Bard Recent

NLS Bard Catalog: Recently Added. Login once before using this template.

47. NLS Bard Search

Search NLS Bard Catalog. Login once before using this template.

48. NY Times Mobile

NYTimes Mobile Site

49. Old Time Radio

This months Old Time Radio Programming

50. OpenLibrary

Open Library Search

51. Patent Search From Google

Perform patent search via Google

52. RadioTime Browser

RadioTime Entry point.

53. RadioTime Categories

RadioTime Categories .

54. RadioTime Search

RadioTime Search.

55. Reddit At Point.

Open RSS Feed for Reddit URL under point.

56. Reddit By Topic.

Open RSS Feed for Reddit Topic.

57. Reddit Front Page.

Open Feed for Reddit Front Page.

58. Reddit Search.

Reddit Search Results Feed.

59. Seeking Alpha Stock Search

Seeking Alpha search.

60. Sign in to Google

Login to Google.

61. StreamWorld Radio

Play radio stream. Example: kcbsFM. Format is stationid+AM/FM.

62. Tech News From CNet

Display tech news from CNET

63. TuneIn Radio

Translate StreamId to playable stream.

64. UPS Packages

Display package tracking information from UPS.

65. Washington Post

Washington Post Contents

66. Wiki Data Search

Search WikiData.

67. WordNet Search

Look up term in WordNet.

68. Yahoo RSSNews

News From Yahoo As RSS.

69. fedex packages

Display package tracking information from Fedex.

70. html Google News Search

Search Google news.

71. sourceforge Download

Download specified file.

72. sourceforge browse mirrors

Retrieve download page at Sourceforge for specified project.

73. sourceforge project

Open specified project page at SourceForge.

74. w3c IRC Logs

Use this to pull up the archived logs from the W3C IRC. You need to know the exact name of the channel.

75. w3c Lists

Use this to pull up the archived mail from the W3C list. You need to know the exact name of the list.

76. world CNN Content

Filter down to CNN content area.

13 Emacspeak Keyboard Commands.

This chapter gives an overview of all the keymaps used by Emacspeak. For a complete reference, see See Section 12.8 [emacspeak], page 55. For basic usage, see See Chapter 6 [Basic Usage], page 9.

Emacspeak uses the following keymaps, each of which are invoked by a specific prefix key.

C-е The main Emacspeak keymap.

C-e d The text-to-speech keymap.

C-; The Emacspeak hyper keymap.

C-' The emacspeak super keymap.

C-, The Emacspeak alt keymap.

C-. The Emacspeak super keymap.

C-e x The emacspeak x keymap.

 $C-e\ C-x$ The Emacspeak C-x keymap.

Primary Emacspeak commands start with C-e. Following C-e with d invokes commands that control the text-to-speech engine. Note that silencing speech is an exception to this rule — Speech silence commands are placed directly on the primary emacspeak-keymap (C-e s and C-e.).

In addition, Emacspeak introduces five additional keymaps for binding its extensive set of facilities to convenient keystrokes.

When running under a windowing system, Emacs automatically receives keys C-;, C-', C-, and C-.. When running on the Linux console, these keys become available after loading the custom Linux keymap found in emacspeak/tvr/console-keymaps after checking out the emacspeak repository from https://github.com/tvraman/emacspeak.

Emacspeak defines personal keymaps accessible via $C-e \ x$ and $C-e \ C-x$. For now, emacspeak does not bind any commands in keymap $C-e \ C-x$ — this keymap is left for end-user personalization.

Note that the information presented in the following subsections can also be viewed via Emacs' built-in Help system; e.g., Press C-; C-h to get a *Help* buffer that displays all keys bound in emacspeak-hyper-keymap.

14 TTS Servers

Emacspeak produces spoken output by communicating with one of many speech servers. This section documents the communication protocol between the client application i.e. Emacspeak, and the TTS (Text to Speech) server. This section is primarily intended for developers wishing to:

- Create new speech servers that comply with this communication protocol
- Developers of other client applications who wish to use the various Emacspeak speech servers.

For additional notes on how to log and view TTS server commands when developing a speech server, see http://emacspeak.blogspot.com/2015/04/howto-log-speech-server-output-to-aid.html.

14.1 High-level Overview

The TTS server reads commands from standard input, and script *speech-server* can be used to cause a TTS server to communicate via a TCP socket. Speech server commands are used by the client application to make specific requests of the server; the server listens for these requests in a non-blocking read loop and executes requests as they become available. Requests can be classified as follows:

- Commands that send text to be spoken.
- Commands that set *state* of the TTS server.

All commands are of the form

commandWord {arguments}

The braces are optional if the command argument contains no white space. The speech server maintains a *current state* that determines various characteristics of spoken output such as speech rate, punctuations mode etc. (see set of commands that manipulate speech state for complete list). The client application *queues* The text and non-speech audio output to be produced before asking the server to *dispatch* the set of queued requests, i.e. start producing output.

Once the server has been asked to produce output, it removes items from the front of the queue, sends the requisite commands to the underlying TTS engine, and waits for the engine to acknowledge that the request has been completely processed. This is a non-blocking operation, i.e., if the client application generates additional requests, these are processed *immediately*.

The above design allows the Emacspeak TTS server to be *highly* responsive; Client applications can queue large amounts of text (typically queued a clause at a time to achieve the best prosody), ask the TTS server to start speaking, and interrupt the spoken output at any time.

14.1.1 Commands That Queue Output.

This section documents commands that either produce spoken output, or queue output to be produced on demand. Commands that place the request on the queue are clearly marked.

version

Speaks the *version* of the TTS engine. Produces output immediately.

tts_say text

Speaks the specified *text* immediately. The text is not pre-processed in any way, contrast this with the primary way of speaking text which is to queue text before asking the server to process the queue.

Note that this command needs to handle the special syntax for morpheme boundaries '[*]'. The '[*]' syntax is specific to the Dectalk family of synthesizers; servers for other TTS engines need to map this pattern to the engine-specific code for each engine. As an example, see servers/outloud A morpheme boundary results in synthesizing compound words such as *left bracket* with the right intonation; using a space would result in that phrase being synthesized as two separate words.

1 c

Speak c a single character, as a letter. The character is spoken immediately. This command uses the TTS engine's capability to speak a single character with the ability to flush speech immediately. Client applications wishing to produce character-at-a-time output, e.g., when providing character echo during keyboard input should use this command.

d

This command is used to *dispatch* all queued requests. It was renamed to a single character command (like many of the commonly used TTS server commands) to work more effectively over slow (9600) dialup lines. The effect of calling this command is for the TTS server to start processing items that have been queued via earlier requests.

tts_pause

This pauses speech *immediately*. It does not affect queued requests; when command *tts_resume* is called, the output resumes at the point where it was paused. Not all TTS engines provide this capability.

tts_resume

Resume spoken output if it has been paused earlier.

S

Stop speech *immediately*. Spoken output is interrupted, and all pending requests are flushed from the queue.

q text

Queues text to be spoken. No spoken output is produced until a *dispatch* request is received via execution of command d.

c codes

Queues synthesis codes to be sent to the TTS engine. Codes are sent to the engine with no further transformation or processing. The codes are inserted into the output queue and will be dispatched to the TTS engine at the appropriate point in the output stream.

a filename

Cues the audio file identified by filename for playing.

t freq length

Queues a tone to be played at the specified frequency and having the specified length. Frequency is specified in hertz and length is specified in milliseconds.

sh duration

Queues the specified duration of silence. Silence is specified in milliseconds.

14.1.2 Commands That Set State

tts_reset

Reset TTS engine to default settings.

tts_set_punctuations mode

Sets TTS engine to the specified punctuation mode. Typically, TTS servers provide at least three modes:

- None: Do not speak punctuation characters.
- Some: Speak some punctuation characters. Used for English prose.
- All: Speak out *all* punctuation characters; useful in programming modes.

```
tts_set_speech_rate rate
```

Sets speech rate. The interpretation of this value is typically engine specific.

```
tts_set_character_scale factor
```

Scale factor applied to speech rate when speaking individual characters. Thus, setting speech rate to 500 and character scale to 1.2 will cause command l to use a speech rate of 500 * 1.2 = 600.

```
tts_split_caps flag
```

Set state of *split caps* processing. Turn this on to speak mixed-case (AKA Camel Case) identifiers.

15 Emacspeak At Twenty.

This article was originally published to mark the 20th anniversary of Emacspeak. It has been incorporated as the final chapter of the Emacspeak manual for easy reference. The original article is available on the Web and in its original source form as an *org* file in the emacspeak distribution.

15.1 Turning Twenty

One afternoon in the third week of September 1994, I started writing myself a small Emacs extension using Lisp Advice to make Emacs speak to me so I could use a Linux laptop. As Emacspeak turns twenty, this article is both a quick look back over the twenty years of lessons learned, as well as a glimpse into what might be possible as we evolve to a world of connected, ubiquitous computing. This article draws on Learning To Program In 10 Years (http://norvig.com/21-days.html) by Peter Norvig for some of its inspiration.

15.2 Using UNIX With Speech Output — 1994

As a graduate student at Cornell (http://www.cs.cornell.edu/info/people/raman/raman.html), I accessed my Unix workstation (SunOS) from an Intel 486 PC running IBM Screen-Reader. There was no means of directly using a UNIX box at the time; after graduating, I continued doing the same for about six months at Digital Research in Cambridge—the only difference being that my desktop workstation was now a DEC-Alpha. Throughout this time, Emacs was my environment of choice for everything from software development and Internet access to writing documents.

In fall of 1994, I wanted to start using a laptop running Linux; a colleague (Dave Wecker) was retiring his 386mhz laptop that already had Linux on it and I decided to inherit it. But there was only one problem — until then I had always accessed a UNIX machine from a secondary PC running a screen-reader — something that would clearly make no sense with a laptop!

Another colleague, Win Treese, had pointed out the interesting possibilities presented by package advice in Emacs 19.23 — a few weeks earlier, he had sent around a small snippet of code that magically modified Emacs' version-control primitive to first create an RCS directory if none existed before adding a file to version control. When I speculated about using the Linux laptop, Dave remarked — you live in Emacs anyway — why dont you just make it talk!

Connecting the dots, I decided to write myself a tool that augmented Emacs' default behavior to speak — within about 4 hours, version 0.01 of Emacspeak was up and running.

15.3 Key Enabler — Emacs And Lisp Advice

It took me a couple of weeks to fully recognize the potential of what I had built with Emacs Lisp Advice. Until then, I had used screen-readers to listen to the contents of the visual display — but Lisp Advice let me do a lot more — it enabled Emacspeak to generate highly context-specific spoken feedback, augmented by a set of auditory icons. I later formalized this design under the name speech-enabled applications (http://en.wikipedia.org/wiki/Self-voicing). For a detailed overview of the architecture of

Emacspeak, see the chapter on Emacspeak (http://emacspeak.sourceforge.net/raman/publications/bc-emacspeak/publish-emacspeak-bc.html) in the book Beautiful Code (http://emacspeak.blogspot.com/2007/07/emacspeak-and-beautiful-code.html) from O'Reilly.

15.4 Key Component — Text To Speech (TTS)

Emacspeak is a speech-subsystem for Emacs; it depends on an external Text-To-Speech (TTS) engine to produce speech. In 1994, Digital Equipment released what would turn out to be the last in the line of hardware DECTalk synthesizers, the DECTalk Express. This was essentially an Intel 386with 1mb of flash memory that ran a version of the DECTalk TTS software — to date, it still remains my favorite Text-To-Speech engine. At the time, I also had a software version of the same engine running on my DEC-Alpha workstation; the desire to use either a software or hardware solution to produce speech output defined the Emacspeak speech-server architecture.

I went to IBM Research in 1999; this coincided with IBM releasing a version of the Eloquennee TTS engine on Linux under the name *ViaVoice Outloud*. My colleague Jeffrey Sorenson implemented an early version of the Emacspeak speech-server for this engine using the OSS API; I later updated it to use the ALSA library while on a flight back to SFO from Boston in 2001. That is still the TTS engine that is speaking as I type this article on my laptop.

20 years on, TTS continues to be the weakest link on Linux; the best available solution in terms of quality continues to be the Linux port of Eloquence TTS available from Voxin in Europe for a small price. Looking back across 20 years, the state of TTS on Linux in particular and across all platforms in general continues to be a disappointment; most of today's newer TTS engines are geared toward mainstream use-cases where naturalness of the voice tends to supersede intelligibility at higher speech-rates. Ironically, modern TTS engines also give applications far less control over the generated output — as a case in point, I implemented Audio System For Technical Readings (AsTeR) (http://www.cs.cornell.edu/home/raman/aster/demo.html) in 1994 using the DECTalk; 20 years later, we implemented MathML support (http://allthingsd.com/20130604/t-v-ramans-audio-deja-vu-from-google-a-math-reading-system-for-the-web/) in ChromeVox (http://www.chromevox.com/) using Google TTS. In 2013, it turned out to be difficult or impossible to implement the type of audio renderings that were possible with the admittedly less-natural sounding DECTalk!

15.5 Emacspeak And Software Development

Version 0.01 of Emacspeak was written using IBM Screen-Reader on a PC with a terminal emulator accessing a UNIX workstation. But in about 2 weeks, Emacspeak was already a better environment for developing Emacspeak in particular and software development in general. Here are a few highlights in 1994 that made Emacspeak a good software development environment, present-day users of Emacspeak will see that that was just scratching the surface.

- Audio formatting using voice-lock to provide aural syntax highlighting.
- Succinct auditory icons to provide efficient feedback.
- Emacs' ability to navigate code structurally —

as opposed to moving around by plain-text units such as characters, lines and words. S-Expressions are a major win!

- Emacs' ability to specialize behavior based on major and minor modes.
- Ability to browse program code using tags, and getting fluent spoken feedback.
- Completion everywhere.
- Everything is searchable this is a huge win when you cannot see the screen.
- Interactive spell-checking using ISpell with continuous spoken feedback augmented by aural highlights.
- Running code compilation and being able to jump to errors with spoken feedback.
- Ability to move through diff chunks when working with source code and source control
 systems; refined diffs as provided by the ediff package when speech-enabled is a major
 productivity win.
- Ability to easily move between email, document authoring and programming though this may appear trivial, it continues to be one of Emacs' biggest wins.

Long-term Emacs users will recognize all of the above as being among the reasons why they do most things inside Emacs — there is little that is Emacspeak specific in the above list — except that Emacspeak was able to provide fluent, well-integrated contextual feedback for all of these tasks. And that was a game-changer given what I had had before Emacspeak. As a case in point, I did not dare program in Python before I speech-enabled Emacs' Python-Mode; the fact that white space is significant in Python made it difficult to program using a plain screen-reader that was unaware of the semantics of the underlying content being accessed.

15.5.1 Programming Defensively

As an aside, note that all of Emacspeak has been developed over the last 20 years with Emacspeak being the only adaptive technology on my system. This has led to some interesting design consequences, primary among them being a strong education in **programming defensively**. Here are some other key features of the Emacspeak code-base:

- 1. The code-base is extremely **bushy** rather than deeply hierarchical this means that when a module breaks, it does not affect the rest of the system.
- 2. Separation of concerns with respect to the various layers, a tightly knit core speech library interfaces with any one of many speech servers running as an external process.
- 3. Audio formatting is abstracted by using the formalism defined in Aural CSS.
- 4. Emacspeak integrates with Emacs' user interface conventions by taking over a single prefix key C-e with *all* Emacspeak commands accessed through that single keymap. This helps embedding Emacspeak functionality into a large variety of third party modules without any loss of functionality.

15.6 Emacspeak And Authoring Documents

In 1994, my preferred environment for authoring all documents was Later I started writing either Later I at the appropriate support modes; today I use **org-mode** to do most of my content authoring. Personally, I have never been a fan of What You See Is What You Get (WYSIWYG) authoring tools — in my

experience that places an undue burden on the author by drawing attention away from the content to focus on the final appearance. An added benefit of creating content in Emacs in the form of light-weight markup is that the content is long-lived — I can still usefully process and re-use things I have written 25 years ago.

Emacs, with Emacspeak providing audio formatting and context-specific feedback remains my environment of choice for writing all forms of content ranging from simple email messages to polished documents for print publishing. And it is worth repeating that I never need to focus on what the content is going to look like — that job is best left to the computer.

As an example of producing high-fidelity visual content, see this write-up on Polyhedral Geometry (http://emacspeak.sourceforge.net/raman/publications/polyhedra/) that I published in 2002; all of the content, including the drawings were created by me using Emacs.

15.7 Emacspeak And The Early Days Of The Web

Right around the time that I was writing version 0.01 of emacspeak, a far more significant software movement was under way — the World Wide Web was moving from the realms of academia to the mainstream world with the launch of NCSA Mosaic — and in late 1994 by the first commercial Web browser in Netscape Navigator. Emacs had always enabled integrated access to FTP archives via package ange-ftp; in late 1993, William Perry released Emacs-W3, a Web browser for Emacs written entirely in Emacs Lisp. W3 was one of the first large packages to be speech-enabled by Emacspeak — later it was the browser on which I implemented the first draft of the Aural CSS specification (http://www. w3.org/TR/CSS2/aural.html). Emacs-W3 enabled many early innovations in the context of providing non-visual access to Web content, including audio formatting and structured content navigation; in summer of 1995, Dave Raggett and I outlined a few extensions to HTML Forms, including the label element as a means of associating metadata with interactive form controls in HTML, and many of these ideas were prototyped in Emacs-W3 at the time. Over the years, Emacs-W3 fell behind the times — especially as the Web moved away from cleanly structured HTML to a massive soup of unmatched tags. This made parsing and error-correcting badly-formed HTML markup expensive to do in Emacs-Lisp — and performance suffered. To add to this, mainstream users moved away because Emacs' rendering engine at the time was not rich enough to provide the type of visual renderings that users had come to expect. The advent of DHTML, and JavaScript based Web Applications finally killed off Emacs-W3 as far as most Emacs users were concerned.

But Emacs-W3 went through a revival on the emacspeak audio desktop in late 1999 with the arrival of XSLT, and Daniel Veillard's excellent implementation via the **libxml2** and **libxslt** packages. With these in hand, Emacspeak was able to hand-off the bulk of HTML error correction to the **xsltproc** tool. The lack of visual fidelity didn't matter much for an eyes-free environment; so Emacs-W3 continued to be a useful tool for consuming large amounts of Web content that did not require JavaScript support.

During the last 24 months, **libxml2** has been built into Emacs; this means that you can now parse arbitrary HTML as found in the wild without incurring a performance hit. This functionality was leveraged first by package **shr** (Simple HTML Renderer) within the **gnus** package for rendering HTML email. Later, the author of **gnus** and **shr** created a new light-

weight HTML viewer called **eww** that is now part of Emacs 24. With improved support for variable pitch fonts and image embedding, Emacs is once again able to provide visual renderings for a large proportion of text-heavy Web content where it becomes useful for mainstream Emacs users to view at least some Web content within Emacs; during the last year, I have added support within emacspeak to extend package **eww** (http://emacspeak.blogspot.com/2014/05/emacspeak-eww-updates-for-complete.html) with support for DOM filtering and quick content navigation.

15.8 Audio Formatting — Generalizing Aural CSS

A key idea in Audio System For Technical Readings (AsTeR) (http://www.cs.cornell.edu/home/raman/aster/aster-toplevel.html) was the use of various voice properties in combination with non-speech auditory icons to create rich aural renderings. When I implemented Emacspeak, I brought over the notion of audio formatting to all buffers in Emacs by creating a voice-lock module that paralleled Emacs' font-lock module. The visual medium is far richer in terms of available fonts and colors as compared to voice parameters available on TTS engines — consequently, it did not make sense to directly map Emacs' face properties to voice parameters. To aid in projecting visual formatting onto auditory space, I created property personality analogous to Emacs' face property that could be applied to content displayed in Emacs; module voice-lock applied that property appropriately, and the Emacspeak core handled the details of mapping personality values to the underlying TTS engine.

The values used in property **personality** were abstract, i.e., they were independent of any given speech engine. Later in the fall of 1995, I re-expressed these set of abstract voice properties in terms of Aural CSS; the work was published as a first draft toward the end of 1995, and implemented in Emacs-W3 in early 1996. Aural CSS was an appendix in the CSS-1.0 specification; later, it graduated to being its own module within CSS-2.0.

Later in 1996, all of Emacs' voice-lock functionality was re-implemented in terms of Aural CSS; the implementation has stood the test of time in that as I added support for more TTS engines, I was able to implement engine-specific mappings of Aural-CSS values. This meant that the rest of Emacspeak could define various types of voices for use in specific contexts without having to worry about individual TTS engines. Conceptually, property personality can be thought of as holding an aural display list — various parts of the system can annotate pieces of text with relevant properties that finally get rendered in the aggregate. This model also works well with the notion of Emacs overlays where a moving overlay is used to temporarily highlight text that has other context-specific properties applied to it.

Audio formatting as implemented in Emacspeak is extremely effective when working with all types of content ranging from richly structured mark-up documents (IATEX, orgmode) and formatted Web pages to program source code. Perceptually, switching to audio formatted output feels like switching from a black-and-white monitor to a rich color display. Today, Emacspeak's audio formatted output is the only way I can correctly write **else if** vs **elsif** in various programming languages!

15.9 Conversational Gestures For The Audio Desktop

By 1996, Emacspeak was the only piece of adaptive technology I used; in fall of 1995, I had moved to Adobe Systems from DEC Research to focus on enhancing the Portable

Document Format (PDF) to make PDF content repurposable. Between 1996 and 1998, I was primarily focused on electronic document formats — I took this opportunity to step back and evaluate what I had built as an auditory interface within Emacspeak. This retrospect proved extremely useful in gaining a sense of perspective and led to formalizing the high-level concept of *Conversational Gestures* and structured browsing/searching as a means of thinking about user interfaces.

By now, Emacspeak was a complete environment — I formalized what it provided under the moniker Complete Audio Desktop. The fully integrated user experience allowed me to move forward with respect to defining interaction models that were highly optimized to eyes-free interaction — as an example, see how Emacspeak interfaces with modes like **dired** (Directory Editor) for browsing and manipulating the filesystem, or **proced** (Process Editor) for browsing and manipulating running processes. Emacs' integration with ispell for spell checking, as well as its various completion facilities ranging from minibuffer completion to other forms of dynamic completion while typing text provided more opportunities for creating innovative forms of eyes-free interaction. With respect to what had gone before (and is still par for the course as far as traditional screen-readers are concerned), these types of highly dynamic interfaces present a challenge. For example, consider handling a completion interface using a screen-reader that is speaking the visual display. There is a significant challenge in deciding what to speak e.g., when presented with a list of completions, the currently typed text, and the default completion, which of these should you speak, and in what order? The problem gets harder when you consider that the underlying semantics of these items is generally not available from examining the visual presentation in a consistent manner. By having direct access to the underlying information being presented, Emacspeak had a leg up with respect to addressing the higher-level question — when you do have access to this information, how do you present it effectively in an eyes-free environment? For this and many other cases of dynamic interaction, a combination of audio formatting, auditory icons, and the ability to synthesize succinct messages from a combination of information items — rather than having to forcibly speak each item as it is rendered visually provided for highly efficient eyes-free interaction.

This was also when I stepped back to build out Emacspeak's table browsing facilities — see the online Emacspeak documentation for details on Emacspeak's table browsing functionality which continues to remain one of the richest collection of end-user affordances for working with two-dimensional data.

15.9.1 Speech-Enabling Interactive Games

So in 1997, I went the next step in asking — given access to the underlying infromation, is it possible to build effective eyes-free interaction to highly interactive tasks? I picked **Tetris** as a means of exploring this space, the result was an Emacspeak extension to speech-enable module **tetris.el**. The details of what was learned were published as a paper in Assets 98, and expanded as a chapter on Conversational Gestures in my book on Auditory Interfaces; that book was in a sense a culmination of stepping back and gaining a sense of perspective of what I had build during this period. The work on Conversational Gestures also helped in formalizing the abstract user interface layer that formed part of the XForms (http://www.w3.org/MarkUp/Forms/) work at the W3C.

Speech-enabling games for effective eyes-free interaction has proven highly educational. Interactive games are typically built to challenge the user, and if the eyes-free interface is

inefficient, you just wont play the game — contrast this with a task that you **must** perform, where you're likely to make do with a sub-optimal interface. Over the years, Emacspeak has come to include eyes-free interfaces to several games including Tetris (http://en.wikipedia.org/wiki/Tetris), Sudoku (http://en.wikipedia.org/wiki/2048_(video_game)), and of late the popular 2048 game (http://en.wikipedia.org/wiki/2048_(video_game)). Each of these have in turn contributed to enhancing the interaction model in Emacspeak, and those innovations typically make their way to the rest of the environment.

15.10 Accessing Media Streams

Streaming real-time audio on the Internet became a reality with the advent of RealAudio in 1995; soon there were a large number of media streams available on the Internet ranging from music streams to live radio stations. But there was an interesting twist — for the most part, all of these media streams expected one to look at the screen, even though the primary content was purely audio (streaming video hadn't arrived yet!). Starting in 1996, Emacspeak started including a variety of eyes-free front-ends for accessing media streams. Initially, this was achieved by building a wrapper around **trplayer** — a headless version of RealPlayer; later I built Emacspeak module **emacspeak-m-player** for interfacing with package **mplayer**. A key aspect of streaming media integration in emacspeak is that one can launch and control streams without ever switching away from one's primary task; thus, you can continue to type email or edit code while seamlessly launching and controlling media streams. Over the years, Emacspeak has come to integrate with Emacs packages like **emms** as well as providing wrappers for **mplayer** and **alsaplayer** — collectively, these let you efficiently launch all types of media streams, including streaming video, without having to explicitly switch context.

In the mid-90's, Emacspeak started including a directory of media links to some of the more popular radio stations — primarily as a means of helping users getting started — Emacs' ability to rapidly complete directory and file-names turned out to be the most effective means of quickly launching everything from streaming radio stations to audio books. And even better — as the Emacs community develops better and smarter ways of navigating the filesystem using completions, e.g., package **ido**, these types of actions become even more efficient!

15.11 EBooks — Ubiquitous Access To Books

AsTeR — was motivated by the increasing availability of technical material as online electronic documents. While AsTeR processed the TEX family of markup languages, more general ebooks came in a wide range of formats, ranging from plain text generated from various underlying file formats to structured EBooks, with Project Gutenberg (http://www.gutenberg.org/) leading the way. During the mid-90's, I had access to a wide range of electronic materials from sources such as O'Reilly Publishing and various electronic journals — The Perl Journal (TPJ) is one that I still remember fondly.

Emacspeak provided fairly light-weight but efficient access to all of the electronic books I had on my local disk — Emacs' strengths with respect to browsing textual documents meant that I needed to build little that was specific to Emacspeak. The late 90's saw the arrival of Daisy as an XML-based format for accessible electronic books. The last decade

has seen the rapid convergence to **epub** as a distribution format of choice for electronic books. Emacspeak provides interaction modes that make organizing, searching and reading these materials on the Emacspeak Audio Desktop a pleasant experience. Emacspeak also provides an OCR-Mode — this enables one to call out to an external OCR program and read the content efficiently.

The somewhat informal process used by publishers like O'Reilly to make technical material available to users with print impairments was later formalized by BookShare (https://www.bookshare.org/) — today, qualified users can obtain a large number of books and periodicals initially as Daisy-3 and increasingly as EPub. BookShare provides a RESTful API for searching and downloading books; Emacspeak module emacspeak-bookshare implements this API to create a client for browsing the BookShare library, downloading and organizing books locally, and an integrated ebook reading mode to round off the experience.

A useful complement to this suite of tools is the Calibre package for organizing ones ebook collection; Emacspeak now implements an **EPub Interaction** mode that leverages Calibre (actually sqlite3) to search and browse books, along with an integrated **EPub mode** for reading books.

15.12 Leveraging Computational Tools — From SQL And R To IPython Notebooks

The ability to invoke external processes and interface with them via a simple read-eval-loop (REPL) is perhaps one of Emacs' strongest extension points. This means that a wide variety of computational tools become immediately available for embedding within the Emacs environment — a facility that has been widely exploited by the Emacs community. Over the years, Emacspeak has leveraged many of these facilities to provide a well-integrated auditory interface.

Starting from a tight code, eval, test form of iterative programming as encouraged by Lisp. Applied to languages like Python and Ruby to exploratory computational tools such as R for data analysis and SQL for database interaction, the Emacspeak Audio Desktop has come to encompass a collection of rich computational tools that provide an efficient eyes-free experience.

In this context, module **ein** — Emacs IPython Notebooks — provides another excellent example of an Emacs tool that helps interface seamlessly with others in the technical domain. IPython Notebooks provide an easy means of reaching a large audience when publishing technical material with interactive computational content; module **ein** brings the power and convenience of Emacs 'editting facilities when developing the content. Speech-enabling package **ein** is a major win since editting program source code in an eyes-free environment is far smoother in Emacs than in a browser-based editor.

15.13 Social Web — EMail, Instant Messaging, Blogging And Tweeting Using Open Protocols

The ability to process large amounts of email and electronic news has always been a feature of Emacs. I started using package **vm** for email in 1990, along with **gnus** for Usenet access many years before developing Emacspeak. So these were the first major packages that Emacspeak speech-enabled. Being able to access the underlying data structures used to visually render email messages and Usenet articles enabled Emacspeak to produce rich,

succinct auditory output — this vastly increased my ability to consume and organize large amounts of information. Toward the turn of the century, instant messaging arrived in the mainstream — package tnt provided an Emacs implementation of a chat client that could communicate with users on the then popular AOL Instant Messenger platform. At the time, I worked at IBM Research, and inspired by package tnt, I created an Emacs client called ChatterBox using the Lotus Sametime API — this enabled me to communicate with colleagues at work from the comfort of Emacs. Packages like vm, gnus, tnt and ChatterBox provide an interesting example of how availability of a clean underlying API to a specific service or content stream can encourage the creation of efficient (and different) user interfaces. The touchstone of such successful implementations is a simple test — can the user of a specific interface tell if the person whom he is communicating with is also using the same interface? In each of the examples enumerated above, a user at one end of the communication chain cannot tell, and in fact shouldn't be able to tell what client the user at the other end is using. Contrast this with closed services that have an inherent lock-in model e.g., proprietary word processors that use undocumented serialization formats — for a fun read, see this write-up on Universe Of Fancy Colored Paper (http://emacspeak. sourceforge.net/publications/colored-paper.html).

Today, my personal choice for instant messaging is the open Jabber platform. I connect to Jabber via Emacs package **emacs-jabber** and with Emacspeak providing a light-weight wrapper for generating the eyes-free interface, I can communicate seamlessly with colleagues and friends around the world.

As the Web evolved to encompass ever-increasing swathes of communication functionality that had already been available on the Internet, we saw the world move from Usenet groups to **Blogs** — I remember initially dismissing the blogging phenomenon as just a reinvention of Usenet in the early days. However, mainstream users flocked to Blogging, and I later realized that blogging as a publishing platform brought along interesting features that made communicating and publishing information **much** easier. In 2005, I joined Google; during the winter holidays that year, I implemented a light-weight client for Blogger that became the start of Emacs package **g-client** — this package provides Emacs wrappers for Google services that provide a RESTful API.

15.14 The RESTful Web — Web Wizards And URL Templates For Faster Access

Today, the Web, based on URLs and HTTP-style protocols is widely recognized as a platform in its own right. This platform emerged over time — to me, Web APIs arrived in the late 90's when I observed the following with respect to my own behavior on many popular sites:

- 1. I opened a Web page that took a while to load (remember, I was still using Emacs-W3),
- 2. I then searched through the page to find a form-field that I filled out, e.g., start and end destinations on Yahoo Maps,
- 3. I hit submit, and once again waited for a heavy-weight HTML page to load,
- 4. And finally, I hunted through the rendered content to find what I was looking for.

This pattern repeated across a wide-range of interactive Web sites ranging from AltaVista for search (this was pre-Google), Yahoo Maps for directions, and Amazon for product

searches to name but a few. So I decided to automate away the pain by creating Emacspeak module **emacspeak-websearch** that did the following:

- 1. Prompt via the minibuffer for the requisite fields,
- 2. Consed up an HTTP GET URL,
- 3. Retrieved this URL,
- 4. And filtered out the specific portion of the HTML DOM that held the generated response.

Notice that the above implementation hard-wires the CGI parameter names used by a given Web application into the code implemented in module **emacspeak-websearch**. REST as a design pattern had not yet been recognized, leave alone formalized, and module **emacspeak-websearch** was initially criticized as being fragile.

However, over time, the CGI parameter names remained fixed — the only things that have required updating in the Emacspeak code-base are the content filtering rules that extract the response — for popular services, this has averaged about one to two times a year.

I later codified these filtering rules in terms of XPath, and also integrated XSLT-based pre-processing of incoming HTML content before it got handed off to Emacs-W3 — and yes, Emacs/Advice once again came in handy with respect to injecting XSLT pre-processing into Emacs-W3!

Later, in early 2000, I created companion module **emacspeak-url-templates** — partially inspired by Emacs' **webjump** module. URL templates in Emacspeak leveraged the recognized REST interaction pattern to provide a large collection of Web widgets that could be quickly invoked to provide rapid access to the right pieces of information on the Web.

The final icing on the cake was the arrival of RSS and Atom feeds and the consequent deep-linking into content-rich sites — this meant that Emacspeak could provide audio renderings of useful content without having to deal with complex visual navigation! While Google Reader existed, Emacspeak provided a light-weight **greader** client for managing ones feed subscriptions; with the demise of Google Reader, I implemented module **emacspeak-feeds** for organizing feeds on the Emacspeak desktop. A companion package **emacspeak-webspace** implements additional goodies including a continuously updating ticker of head-lines taken from the user's collection of subscribed feeds.

15.15 Mashing It Up — Leveraging Evolving Web APIs

The next step in this evolution came with the arrival of richer Web APIs — especially ones that defined a clean client/server separation. In this respect, the world of Web APIs is a somewhat mixed bag in that many Web sites equate a Web API with a JS-based API that can be exclusively invoked from within a Web-Browser run-time. The issue with that type of API binding is that the only runtime that is supported is a full-blown Web browser; but the arrival of native mobile apps has actually proven a net positive in encouraging sites to create a cleaner separation. Emacspeak has leveraged these APIs to create Emacspeak front-ends to many useful services, here are a few:

- 1. Minibuffer completion for Google Search using Google Suggest to provide completions.
- 2. Librivox for browsing and playing free audio books.

- 3. NPR for browsing and playing NPR archived programs.
- 4. BBC for playing a wide variety of streaming content available from the BBC.
- 5. A Google Maps front-end that provides instantaneous access to directions and Places search.
- 6. Access to Twitter via package **twittering-mode**.

And a lot more than will fit this margin! This is an example of generalizing the concept of a mashup as seen on the Web with respect to creating hybrid applications by bringing together a collection of different Web APIs. Another way to think of such separation is to view an application as a **head** and a **body** — where the **head** is a specific user interface, with the **body** implementing the application logic. A cleanly defined separation between the **head** and **body** allows one to attach different user interfaces i.e., **heads** to the given **body** without any loss of functionality, or the need to re-implement the entire application. Modern platforms like Android enable such separation via an Intent (http://developer.android.com/reference/android/content/Intent.html) mechanism. The Web platform as originally defined around URLs is actually well-suited to this type of separation — though the full potential of this design pattern remains to be fully realized given today's tight association of the Web to the Web Browser.

15.16 Conclusion — Turning Twenty

In 1996, I wrote an article entitled User Interface — A Means To An End (http://www.drdobbs.com/user-interface-a-means-to-an-end/184410453) pointing out that the size and shape of computers were determined by the keyboard and display. This is even more true in today's world of tablets, phablets and large-sized phones — with the only difference that the keyboard has been replaced by a touch screen. The next generation in the evolution of personal devices is that they will become truly personal by being wearables — this once again forces a separation of the user interface peripherals from the underlying compute engine. Imagine a variety of wearables that collectively connect to ones cell phone, which itself connects to the cloud for all its computational and information needs. Such an environment is rich in possibilities for creating a wide variety of user experiences to a single underlying body of information; Eyes-Free interfaces as pioneered by systems like Emacspeak will come to play an increasingly vital role alongside visual interaction when this comes to pass.

-T.V. Raman, San Jose, CA, September 12, 2014

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16 Acknowledgments

Thanks.

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<fn> d 9</fn>	<fn> N</fn> o	
<fn> d c</fn>	<fn> p</fn>	
<fn> d C-c</fn>	<fn> P</fn>	
<fn> d C-d</fn>	<fn> q</fn>	
<fn> d C-e</fn>	<fn> r</fn>	
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<fn> d C-o</fn>	<fn> RET</fn>	
<fn> d C-s</fn>	<fn> s</fn>	
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<fn> d R</fn>	<fn> x 0</fn>	
<fn> d RET</fn>	<fn> x 1</fn>	
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<fn> x e c</fn>	C-'
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<fn> x e C-f</fn>	C-' h
<fn> x e C-p</fn>	C-' 1
<fn> x e C-t</fn>	C-' m
<fn> x e C-x</fn>	C-' n
<fn> x e d</fn>	C-' o
<fn> x e D</fn>	C-' q
<fn> x e e</fn>	C-' r
<fn> x e f</fn>	C-' R
<fn> x e i</fn>	C-' SPC
<fn> x e I</fn>	C-' t
<fn> x e j</fn>	C-' u
<fn> x e k</fn>	C-' v
<fn> x e m</fn>	C-, ,
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<fn> x e u</fn>	C-, r
<fn> x e v</fn>	C-, s
<fn> x e x</fn>	C-, SPC
<fn> x e X</fn>	C-, t
<fn> x e y</fn>	C-, u
<fn> x e z</fn>	C-, y
<fn> x f</fn>	C
<fn> x h</fn>	C a
<fn> x j</fn>	C C-n
<fn> x o</fn>	C d
<fn> x q</fn>	C h
<fn> x SPC</fn>	C 1
<fn> x t</fn>	C m
<fn> x u</fn>	C n
<fn> x v</fn>	C q
<fn> x w</fn>	C r
<help></help>	C R
<help> =</help>	C SPC
<help>\</help>	C t
<help> C-e</help>	C u
<help> C-1</help>	C v
<help> C-s</help>	C-/
<help> C-v</help>	C-; '
<help> M</help>	C-; :
<help> N</help>	C-; ;
<help> TAB</help>	C-; C-a
<pre><print></print></pre>	C-; C-j
<silence></silence>	C-; e
	C-; h
	C-; k

0.1	0 - 0
C-; 1	C-e 2
C-; p	C-e 3
C-; r	C-e 4
C-; v	C-e 5
C-; w	C-e 6
C- <right></right>	C-e 8
-	
C- <up></up>	C-e 9
C-c (C-e A
C-c)	• • • • • • • • • • • • • • • • • • • •
C-c ,	C-e b
C-c 0	C-e B
C-c 1	C-e c
C-c C-\	C-e C
C-c C-a	C-e C
C-c C-c	C-e C- <left></left>
C-c C-d	C-e C- <right></right>
C-c C-f	C-e C-@
C-c C-j	C-e C-a
C-c C-k	C-e C-b
C-c C-u	C-e C-c
C-c C-w	C-e C-d
C-c C-x C-c	C-e C-f
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C-e;	C-e C-t <left></left>
C-e <	C-e C-t <right></right>
C-e <down></down>	C-e C-t <up></up>
C-e <f1></f1>	C-e C-t =
C-e <f11></f11>	C-e C-t >
C-e <left></left>	C-e C-t a
C-e <right></right>	C-e C-t A
C-e <up></up>	C-e C-t b
C-e =	C-e C-t B
C-e >	C-e C-t c
C-e ?	C-e C-t C
C-e [C-e C-t C-b
C-e]	C-e C-t C-f
C-e ^	C-e C-t C-n
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C-e C-t M-1	C-e d RETURN	-
C-e C-t M-s	C-e d s	
C-e C-t n	C-e d S	,
C-e C-t p	C-e d SPACE	
C-e C-t Q	C-e d SPC	
C-e C-t r	C-e d t	
C-e C-t R	C-e d v	
C-e C-t s	C-e d V	
C-e C-t S- <tab></tab>	C-e d w	-
C-e C-t SPC	C-e d z	,
C-e C-t T	C-e DEL	,
C-e C-t TAB	C-e DIGIT	-
C-e C-t v	C-e DOWN	
C-e C-t w	C-e f	
C-e C-t x	C-e g	,
C-e C-u	C-e h	
C-e C-w	C-e I	,
C-e C-y	C-e j	_
C-e cap M	C-e k	
C-e cap R	C-e 1	,
C-e cap V	C-e L	,
C-e d	C-e LEFT	
C-e d 0	C-e m	
C-e d 1	C-e M	,
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	x 7		C-h N	
	x 8		C-h TAB	-
	x 9		C-M-y	_
	x a		C-x @ a ,	
	x c		C-x @ a /	
	x C	٠.	•	
		٠.	C-x @ a a	_
	x e a	-	C-x @ a b	
	x e b		C-x @ a c	-
	x e c	-	C-x @ a h	-
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	x e j	-	C-x @ h ;	-
	x e k		C-x @ h C-a	
	x e m		C-x @ h C-j	_
	x e M		C-x @ h e	
	x e o		C-x @ h e	
	x e p		C-x @ h k	-
	1			
	x e P		C-x @ h 1	
	x e r		C-x @ h p	
	x e s		C-x @ h r	
	x e S	-	C-x @ h v	
	x e t		C-x @ h w	
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ESC <down></down>	s-m
ESC <next></next>	s-n
ESC <pri>></pri>	s-SPC
ESC <select></select>	S- <down></down>
ESC <up></up>	S- <up></up>