## VCS — Git Support via VC and Magit

Emacs Git Support See also: VCS-Mercurial Magit Cheatsheet Reference Card Magit Homepage Visual walk-through Magical Git Interface	Emacs VC built-     It works fine wit     use for simple 0		all version control system backends.
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<ul><li>Magit Homepage</li><li>Visual walk-through</li></ul>	Emacs VC built-in package, which has a common UI for all version control system backends.     It works fine with Git and can easily be used for the most common Git commands. Its simple interface is often good enough and simpler to use for simple Git operations like adding/staging files, committing changes, pushing changes to a parent repo. The interface is the same whether you use Git, Mercurial or other VCS supported as VC back-ends.		
	<ul> <li>2. The external Magit package. PEL downloads and activates it when the pel-use-magit user-option is turned on.</li> <li>Magit is much more flexible than the VC interface. It's considered one of Emacs killer features.</li> <li>It helps learn Git features and has extensive support for Git commands.</li> </ul>		
Open this PDF file. See also: <u>▼ Help/Info</u>	<f11> v <f1> <f12> <f1></f1></f12></f1></f11>	(pel-help-pdf &optional OPEN-WEB-PAGE)	Prompt to open one of the VCS PDF files like the <u>YCS-Mercurial</u> local PDF. If the prefix argument (like C-u or M) is used, then it opens the remote GitHub hosted raw PDF instead. If the <b>pel-flip-help-pdf-arg</b> user-option is set it's the other way around.
<u>National PEL VCS control</u>	<f11> v <f2></f2></f11>	(pel-customize-pel &optional OTHER-WINDOW)	Customize PEL Version Control System support.  • If OTHER-WINDOW is non-nil (use <b>C-u</b> ), display in other window.
<u>∑ Customize</u> Emacs VCS control	<f11> v <f3></f3></f11>	(pel-customize-library &optional OTHER-WINDOW)	Customize Emacs Version Control System support: vc, vc-hg, vc-git, magit, monky Customize Emacs Version Control System support: vc, vc-hg, vc-qit.
Emacs Built-in VCS package: <u>VC</u>	Emacs built-in VCS support is provided by the VC library.  • The VC library supports several <u>VCS tools</u> identified by the vc-handled-backends, which identifies: <u>RCS</u> and <u>SCCS</u> , <u>CVS</u> and <u>Subversion</u> , <u>Bazaar</u> , <u>Git</u> , <u>Mercurial</u> and <u>Monotone</u> .  • When visiting a directory or a file and using a VC command to manage the repository, VC automatically detects the (D)VCS type for the repository, set the variable <i>vc-dir-backend</i> and adjusts its backend accordingly. If the directory has a <u>.git</u> directory or is enclosed in a directory tree where the root has a <u>.git</u> directory, then VC uses the Git backend and the commands behaves as described in this table.		
Forcing selection of a VCS backend for VC commands     Select VCS backend with	The commands in the VC built-in package automatically detect the VCS backend and use it for all their commands.  • Unfortunately, if a directory tree is managed by more than one VCS tool, the tool selected by the VC commands may not be the one you want. For example if a directory tree is managed both by Git (there is a .git directory in the parent directories) and by Mercurial (and there is a .hg directory in the parent directories) then VC will select Git because its code looks for Git before it looks for Mercurial.  You can force the selection of a specific VCS backend by using one of the following methods:  1. Force VCS backend for the directory using a directory local variable:  Write the following in a .dir-locals.el file if the file is empty: ((vc-dir-mode . ((vc-dir-backend . Hg))))		
<ul><li>directory local variable</li><li>See also:</li></ul>	Write the following in a .dir-locals.el file if the file is empty: ((vc-dir-mode · ((vc-dir-backend · Hg))))  If the file already contains a list, insert the following entry in the list: (vc-dir-mode · ((vc-dir-backend · Hg)))  You might also have to add the safe values of vc-dir-backend to the safe-local-variable-values, by adding the following statement inside the		
∑ File/Directory Variables		iables arguments in your Emacs custom fi	
	(quo	-local-variable-values ote wc-dir-backend . Git) wc-dir-backend . Hg))))	
	in the directory p	arents, then prompt for the one to use and	e <b>pel-vcs-switch-backend</b> command. It searches for the VCS repository directories diswitches to it using the vc-switch-backend command. The vc-switch-backend work when trying to to switch backend in a multi-backend directory environment. <b>git</b> for Git and <b>Monky</b> for Mercurial.
Detect available VCS backend and switch to one selected	<f11> v s</f11>	(pel-vcs-switch-backend)	Switch VCS back-end for the current file.  If no VCS back-end or only one VCS back-end is available for the file, the command issues an error, otherwise it prompts for the VCS back-end to use and switch the VCS back-end for this file. The switch is temporary: it is restricted to the current Emacs session.  Use this command when the file is managed by more than one VCS back-end. This uses the function 'vc-switch-backend' to perform the switch.
Switch VCS backend	C-x v b	(vc-switch-backend FILE BACKEND)	Make BACKEND the current version control system for FILE.  FILE must already be registered in BACKEND. The change is not permanent, only for the current session. This function only changes VC's perspective on FILE, it does not register or unregister it.  By default, this command cycles through the registered backends.  To get a prompt, use a prefix argument.  ↑This command does not seem to be working if a directory is both managed by Mercurial and Git. Use pel-vcs-switch-backend instead, it does work.
Open the VCS Status Window	With VC, you manage the repository through a buffer using the <b>vc-dir</b> command opens a *vc-dir* buffer that uses the vc-dir-mode major mode.  • The buffer shows the status of files unregistered, modified and not yet committed.  • The buffer supports a set of commands, mostly single character commands to quickly perform operations on the repository.  • These keys are shown in class with light blue background beside globally bound commands that can be issued from any buffer.  • For Git this runs the git status command and displays the list of files that require attention.		
Type ? for help.	For a list of the the	e key bindings available in the *vc-dir* buff	er use the describe-mode command: (type ? in the buffer's window).
Open a VC Status buffer	• C-x v d	(vc-dir DIR &optional BACKEND)	Executes: git status. Open a *vc dir* buffer that shows the git status of files.
List status of files in *vc dir* buffer git status	• <f11> v v</f11>		<ul> <li>Show the VC status for "interesting" files in and below DIR.</li> <li>This allows you to mark files and perform VC operations on them.</li> <li>The list omits files which are up to date, with no changes in your copy or the repository, if there is nothing in particular to say about them.</li> <li>Preparing the list of file status takes time; when the buffer first appears, it has</li> </ul>
git otatus			only the first few lines of summary information. The file lines appear later.
Control <u>.gitignore</u>		st not be managed by Mercurial with the_s	
Ignore a file (update the .hgignore file)	C-x v G	(vc-ignore FILE &optional DIRECTORY REMOVE)	Update the depot's .gitignore file to ignore a specific file or files.  • Ignore FILE under the VCS of DIRECTORY.
	<ul> <li>Normally, FILE is a wildcard specification that matches the files to be ignored. When REMOVE is non-nil, remove FILE from the list of ignored files. DIRECTORY defaults to 'default-directory' and is used to determine the responsible VC backend.</li> <li>When called interactively, prompt for a FILE to ignore, unless a prefix argument is given, in which case prompt for a file FILE to remove from the list of ignored files.</li> </ul>		
	G	(vc-dir-ignore)	Ignore the current file; update the .gitignore file.
Ignore all marked files	!	(pel-vc-ignore-marked)	Ignore all marked files: update the .gitignore file.
Hiding vc-dir lines		at are in specific state (like unregistered) b	
Hide specific states	Н	(pel-vc-dir-hide STATES)	Hide lines corresponding to specified STATES. Prompt for state with tab completion. Press <b>g</b> to refresh list and display all states again.

<u>Operation</u>	Keystroke	Function	<u>Note</u>	
Log Git commands	Log the VC backend	command into the *pel-vc-log* buffer. The	e events show the event as lisp lists.	
Toggle logging VC backend commands	<f11> v l</f11>	(pel-vcs-toggle-vc-log)	Start/stop logging VC commands in the *pel-vc-log* buffer.  • When starting, the command does not create the buffer. It is created on the first VC event.	
VC commands for Git • Git Reference	Basic Git commands are well supported by Emacs VC mode. That works as long as Git is installed and the Emacs process has access to the git commands.  No special setup is required, VC will automatically detect that the file is inside a Git repository as described above.  When editing a file that is inside a Git repository, you can use the following VC commands.  Since the VC command key bindings is the same for all VCS backends, some of the commands do not apply to Git and are not listed below.			
git commands:     git add     git commit	To add a file to a Git repo it must first be staged with the git add command. Then the changes must be committed with the git commit command.  To add a file to a Git repo it must first be staged with the git add command. Then the changes must be committed with the git commit command.  The VC interface uses one command for the two operations. The vc-register performs a commit operation if the file is already staged, otherwise it only stages it.  Inside the "vc-dir" buffer this command is mapped to the v key. That key will only operate on all marked files as long as the status of each of the marked file is the same.			
Add (stage) a file	C-x v i	(vc-register &optional VC-FILESET COMMENT)	Register into a version control system: perform a <b>git add</b> for the file.	
Add/Commit current file	C-x v v	(vc-next-action VERBOSE)	Executes, for the current file (or all marked files in the *vc-dir* buffer):  • git add of the files if the files are not part of the repository yet.  • git commit, of all marked files, otherwise.	
Add/Commit selected file(s)	v		Refuses to perform the action when state of *vc-dir* selected items differ.	
git blame command	,	showing the revision id responsible for eac is useful for discovering when a change wa		
Annotate version of each line of file git blame	C-x v g	(vc-annotate FILE REV &optional DISPLAY-MODE BUF MOVE-POINT-TO VC-BK)	Annotate the lines of the current file: open a *Annotate file (rev #)* buffer that shows the annotation of each line of the current file, each changes has its own background colour.  • More commands are available in the *Annotate* buffer.	
Visit specified revision	Print the specified fil	les as they were at the given revision.		
Show the content of a specific revision of a file git cat-file	C-x v ~	(vc-revision-other-window REV)	Visit revision REV of the current file in another window.  If the current file is named 'F', the revision is named 'F.~REV~'.  If 'F.~REV~' already exists, use it instead of checking it out again.	
• git diff_command	Show differences be	tween revisions for the specified files.		
Diff versions of all files in directory:	C-x v D	(vc-root-diff HISTORIC &optional NOT- URGENT)	Executes: git diff command to list differences between all files in the local directory and the repository.  • Display diffs between VC-controlled whole tree revisions.  • Normally, this compares the tree corresponding to the current fileset with the	
gicum			working revision.  With a prefix argument HISTORIC, prompt for two revision designators specifying which revisions to compare.  The optional argument NOT-URGENT non-nil means it is ok to say no to saving the buffer.	
Diff versions of current file:  git diff	C-x v =	(vc-diff &optional HISTORIC NOT- URGENT)	Executes: git diff command to list differences between current file version in repo and local file's content.  Display diffs between file revisions.  Normally this compares the currently selected fileset with their working revisions. With a prefix argument HISTORIC, it reads two revision designators specifying which revisions to compare.  The optional argument NOT-URGENT non-nil means it is ok to say no to saving the buffer.	
Diff currently selected file(s)	đ	(log-view-diff BEG END)	Show the file(s) difference(s) for the log entry inside a *vc-diff* buffer.  • Get the diff between two revisions.	
git diff	D	(log-view-diff-changeset BEG END)	<ul> <li>If the region is inactive or the mark is on the revision at point, get the diff between the revision at point and its previous revision. Otherwise, get the diff between the revisions where the region starts and ends.</li> <li>Unlike 'log-view-diff-changeset', this function only shows the part of the changeset which affected the currently considered file(s).</li> </ul>	
Incoming changes		Show new changesets found in the specified path/URL or the default pull location.  These are the changesets that would have been pulled by hg pull at the time you issued this command.		
List files incoming from parent (or specified) repo	C-x v I	(vc-log-incoming &optional REMOTE- LOCATION)	List files incoming from parent (or specified) repo in the *vc-incoming* buffer.  • Show a log of changes that will be received with a pull operation from REMOTE-LOCATION.  • When called interactively with a prefix argument, prompt for REMOTE-LOCATION.	
• git log command		Print the revision history of the specified files or the entire project.  • Open a *vc-change-log* window buffer, using the vc-hg-log-view-mode major mode which provides other commands. See section below.		
Print repo log git log	C-x v L	(vc-print-root-log &optional LIMIT)	Executes: git log to list the repo log in a *vc-change-log* buffer.  List the change log for the current VC controlled tree in a window.  If LIMIT is non-nil, it should be a number specifying the maximum number of revisions to show; the default is 'vc-log-show-limit'.  When called interactively with a prefix argument, prompt for LIMIT.	
Open the change log for the file	C-x v 1	(vc-print-log &optional WORKING- REVISION LIMIT)	Executes: git log. Open the change log for the file in the *vc-change-log* buffer.  • List the change log of the current fileset in a window.	
• git merge_command • git mergetool		on into working directory.		
Merge git merge	C-x v m	(vc-merge)	Executes: git merge. Perform a version control merge operation.  You must be visiting a version controlled file, or in a 'vc-dir' buffer.  This runs a "merge" operation to incorporate changes from another branch onto the current branch, prompting for an argument list.	
Show outgoing	Show changesets no	Show changesets not found in the destination.		
Show change sets not found in the destination	C-x v O	(vc-log-outgoing &optional REMOTE- LOCATION)	List deltas to push to parent repo.  • Show a log of changes that will be sent with a push operation to REMOTE-LOCATION.  • When called interactively with a prefix argument, prompt for REMOTE-LOCATION.	
• git pull command	Pull changes from a	remote repository to a local one.		

<u>Operation</u>	Keystroke	Function	<u>Note</u>	
Pull files from parent repo:	C-x v +	(vc-update &optional ARG)	Executes: git pull command to pull files from parent repository.	
git pull			<ul> <li>Update the current fileset or branch.</li> <li>You must be visiting a version controlled file, or in a 'vc-dir' buffer.</li> </ul>	
			On a distributed version control system, this runs a "pull" operation to update the current branch, prompting for an argument list if required.	
			Optional prefix ARG forces a prompt for the VCS command to run, allowing the	
a sit nuch command	addition of command line options.  Push changesets from the local repository to the specified destination.			
• git push command				
Push changes to the specified destination	C-x v P	(vc-push &optional ARG)	Executes: <b>git push</b> to push committed change sets to the parent repo.  • Push the current branch.	
git push	P		<ul> <li>You must be visiting a version controlled file, or in a 'vc-dir' buffer.</li> <li>On a distributed version control system, this runs a "push" operation on the</li> </ul>	
			current branch, prompting for the precise command if required. Optional prefix ARG non-nil forces a prompt for the VCS command to run.	
• git rm command	Schedule the indicat	ed files for removal from the current branch	h.	
Delete a file	C-x v x	(vc-delete-file FILE)	Executes: git rm	
git rm			Delete file and mark it as such in the version control system.  Prompts for the file name, using the directory of the file visited in current buffer.	
git mv command	Move or rename a fil	e, a directory, or a symlink		
Rename a file	M-x vc-	(vc-rename-file OLD NEW)	Rename file OLD to NEW in both work area and repository.	
hg rename	rename-file		If called interactively, read OLD and NEW, defaulting OLD to the current buffer's file name if it's under version control.	
Restore file	Restore files to their	checkout state (the last committed version		
Revert file(s)	C-x v u	(vc-revert)	Revert working copies of the selected fileset to their repository contents.	
	J-A V U		This asks for confirmation if the buffer contents are not identical to the working	
hg revert	Name a particular re-	vision	revision (except for keyword expansion).	
• git tag command	Name a particular re		Eventual with the December of the second that the District of	
Create a tag	C-x v s	(vc-create-tag DIR NAME BRANCHP)	Executes: <b>git tag</b> . Descending recursively from DIR, make a tag called NAME.  • For each registered file, the working revision becomes part of the named	
git tag	Вс		configuration. If the prefix argument BRANCHP is given, the tag is made as a new branch and the files are checked out in that new branch.	
Retrieve a tagged version	C-x v r	(vc-retrieve-tag DIR NAME)	For each file in or below DIR, retrieve their tagged version NAME.	
	Вѕ		NAME can name a branch, in which case this command will switch to the named branch in the directory DIR.	
			<ul> <li>Interactively, prompt for DIR only for VCS that works at file level; otherwise use the repository root of the current buffer.</li> </ul>	
			<ul> <li>If NAME is empty, it refers to the latest revisions of the current branch.</li> <li>If locking is used for the files in DIR, then there must not be any locked files at or</li> </ul>	
			below DIR (but if NAME is empty, locked files are allowed and simply skipped).	
			Tab completion on tag is available at the prompt.  Tags show in tab completion do not include the tags created with git tag.	
			Instead they only show the changeset short ID number. However, it accepts names	
			of tags previously created with git tag.  • You can list the tags with the command git tag on the command line.	
Show the change log	в 1	(vc-print-branch-log BRANCH)	Show the change log for BRANCH in a *vc-change-log* window.	
			Prompt for the branch name. Tab completion shows the list of changeset short ID numbers. It does not show them but you can also use the names of tags	
			previously created with git tag.  • You can list the tags with the command git tag on the command line.	
*vc-dir* buffer			s of files unregistered, modified and not yet committed.	
	Some are shown i	n the mode-specific key bindings show ab		
	Some commands	are not tied to git commands. They are sh		
Show help for the mode	• ? • h	(describe-mode &optional BUFFER)	Opens the *Help* buffer with information about the mode, listing the various key bindings and commands available	
Refresh buffer	g	(revert-buffer &optional IGNORE-AUTO	Restore buffer to the default list view.	
Mark file	m	NOCONFIRM PRESERVE-MODES)  (vc-dir-mark)	Mark the current file or all files in the region.	
Mark IIIC	m	(vo-mir-inairy)	If the region is active, mark all the files in the region. Otherwise mark the file on	
			the current line and move to the next line.  Operations from the buffer apply to all marked files, like adding or committing	
			files, or other operations.  This is really useful to commit several files in the same changeset.	
Unmark file	u	(vc-dir-unmark)	Unmark the current file or all files in the region.	
Zamari (iii)	4	( an annum)	If the region is active, unmark all the files in the region. Otherwise unmark the file on the current line and move to the next line.	
Unmark all files	• ប	(vc-dir-unmark-all-files ARG)	Unmark all files with the same state as the current one.	
	• M- <del></del>	-,	<ul><li>With a prefix argument unmark all files.</li><li>If the current entry is a directory, unmark all the child files.</li></ul>	
			The commands operate on files that are on the same state.	
			This command is intended to make it easy to deselect all files that share the same state.	
			The cursor must be located on the line of a marked or updated item.	
Pull from parent repo	+	(vc-update &optional ARG)	Execute: git pull Update the current fileset or branch.	
git pull			Optional prefix ARG forces a prompt for the Mercurial command to run.	
Hide items	x	(vc-dir-hide-up-to-date &optional STATE)	Hide items that are in STATE from display.  • Hitting x alone hides both 'up-to-date' and 'ignored' items.	
		-···	To hide a specific file status, move point to a file with that status and then hit C-	
			<ul> <li>u x while on that line.</li> <li>To view the files again, hit g</li></ul>	
			shows the up-to-date and ignored items again at least with the implementation	
			as of early 2020. There is a <u>bug on Emacs for this</u> and it was closed without action in October 2019. The reason was they did not see a good reason for	
			fixing it Well being able to open the file from the vc-dir buffer would be one reason	
Close the window	q	(quit-window &optional KILL WINDOW)	Quit WINDOW and bury its buffer.	
		,		

<u>Operation</u>	Keystroke	Function	<u>Note</u>
Commands available in	The C-x v L and	C-x v 1 commands list the repo change	log into the *vc-change-log* buffer.
the *vc-change-log* buffer	The following commands are available in the buffer.  Note that some other commands that are available (like e to modify the change comment) do not work for the Mercurial back-end and navigation commands. Use the describe-mode command to get more information.		
Show help for the mode	• ? • h	(describe-mode &optional BUFFER)	Opens the *Help* buffer with information about the mode, listing the various key bindings and commands available
Toggle log line entry view	RET	(log-view-toggle-entry-display)	Toggle the view of the log line between a single line to a multi-line with more details.
Show diff for log entry	-	(vc-diff &optional HISTORIC NOT- URGENT)	
Visit the content of the revision at point.	f	(log-view-find-revision POS)	Visit the version at POS. If called interactively, visit the version at point.
Mark log entry for future diff operation.	m	(log-view-toggle-mark-entry)	Mark the current log entry line to use as the version to participate in a diff operation.  Toggle the marked state for the log entry at point.  Individual log entries can be marked and unmarked. The marked entries are denoted by changing their background color.  'log-view-get-marked' returns the list of tags for the marked log entries.
Close the window	q	(quit-window &optional KILL WINDOW)	Quit WINDOW and bury its buffer.
*Annotate* buffers git blame		nd opens an *annotate* buffer where the takey commands are available in this buffer.	file revision annotation is shown. Use the <b>describe-mode</b> command to get more information.
Show help for the mode	• ? • h	(describe-mode &optional BUFFER)	Opens the *Help* buffer with information about the mode, listing the various key bindings and commands available
Show the diff of the revision of the current annotated line	• d • =	(vc-annotate-show-diff-revision-at-line)	Visit the diff of the revision at line from its previous revision.  • Open the changes diff in the *vc-diff* buffer.
Show the change set corresponding to the annotated line.	D	(vc-annotate-show-changeset-diff- revision-at-line)	Visit the diff of the revision at line from its previous revision for all files in the changeset.  • Open the changes diff in the *vo-diff* buffer.
Open the file for the revision that corresponds to the revision of the current annotated line	f	(vc-annotate-find-revision-at-line)	Visit the file at the revision identified in the current line.  • The file at specific revision is opened in a buffer that has the same file name with a suffix that identifies the revision number.
Open the log of the revision of the current annotated line	1	(vc-annotate-show-log-revision-at- line)	Visit the log of the revision at line; only show the log entry for the revision.  • If a *vc-change-log* buffer exists and already shows a log for the file in question, search for the log entry required and move point.
Update the annotated view to the revision as it was at the version of the current annotated line	j	(vc-annotate-revision-at-line)	Visit the annotation of the revision identified in the current line.
Update the annotated view to the next revision	n	(vc-annotate-next-revision PREFIX)	Visit the annotation of the revision after this one.  • With a numeric prefix argument, annotate the revision that many revisions after.
Update the annotated view to the previous revision	p	(vc-annotate-prev-revision PREFIX)	Visit the annotation of the revision previous to this one.  • With a numeric prefix argument, annotate the revision that many revisions previous.
Update the annotated view to the current working version	w	(vc-annotate-working-revision)	Visit the annotation of the working revision of this file.
Close the window	q	(quit-window &optional KILL WINDOW)	Quit WINDOW and bury its buffer.
Magit  Cheatsheet Reference Card Magit Homepage Visual walk-through Magical Git Interface	Requires the external Magit package. PEL downloads and activates it when the pel-use-magit user-option is turned on.  Magit is much more flexible than the VC interface. It's considered one of Emacs killer features.  It helps learn Git features and has extensive support for Git commands.  Magit documentation is extensive and excellent. For now this is only showing the PEL specific key used to start magit.		
Start Magit, show Git status of current repository.	<fl1> v g s</fl1>	(magit-status &optional DIRECTORY CACHE)	<ul> <li>Show the status of the current Git repository in a buffer.</li> <li>If the current directory isn't located within a Git repository, then prompt for an existing repository or an arbitrary directory, depending on option 'magit-repository-directories', and show the status of the selected repository instead.</li> <li>If that option specifies any existing repositories, then offer those for completion and show the status buffer for the selected one.</li> <li>Otherwise read an arbitrary directory using regular file-name completion. If the selected directory is the top-level of an existing working tree, then show the status buffer for that.</li> <li>Otherwise offer to initialize the selected directory as a new repository. After creating the repository show its status buffer.</li> <li>These fallback behaviors can also be forced using one or more prefix arguments:</li> <li>With two prefix arguments (or more precisely a numeric prefix value of 16 or greater) read an arbitrary directory and act on it as described above. The same could be accomplished using the command 'magit-init'.</li> <li>With a single prefix argument read an existing repository, or if none can be found based on 'magit-repository-directories', then fall back to the same behavior as with two prefix arguments.</li> </ul>

## VCS - Git - Reference

Topic/URL	Comment
The Pro Git Book	Version 2 of the Pro Git Book, with a link to the table of contents. An essential reference to learn Git.
Using Git with Github	A set of guides for using Git and Github. The link on next row is part of this guide.
Getting started with Git and GitHub	Read this page to learn how to identify yourself and setting credentials for Git using Github so that you won't have to enter your user name and password on every interaction with Github.  • On macOS, the Git credentials for Github can be stored in the OSX Keychain.  • To store Github credential in the keychain just clone a Github repo the "git clone" with the https URL: macOS will prompt for accessing the Keychain: you must then enter your system password.
Magit	Magit Manual