

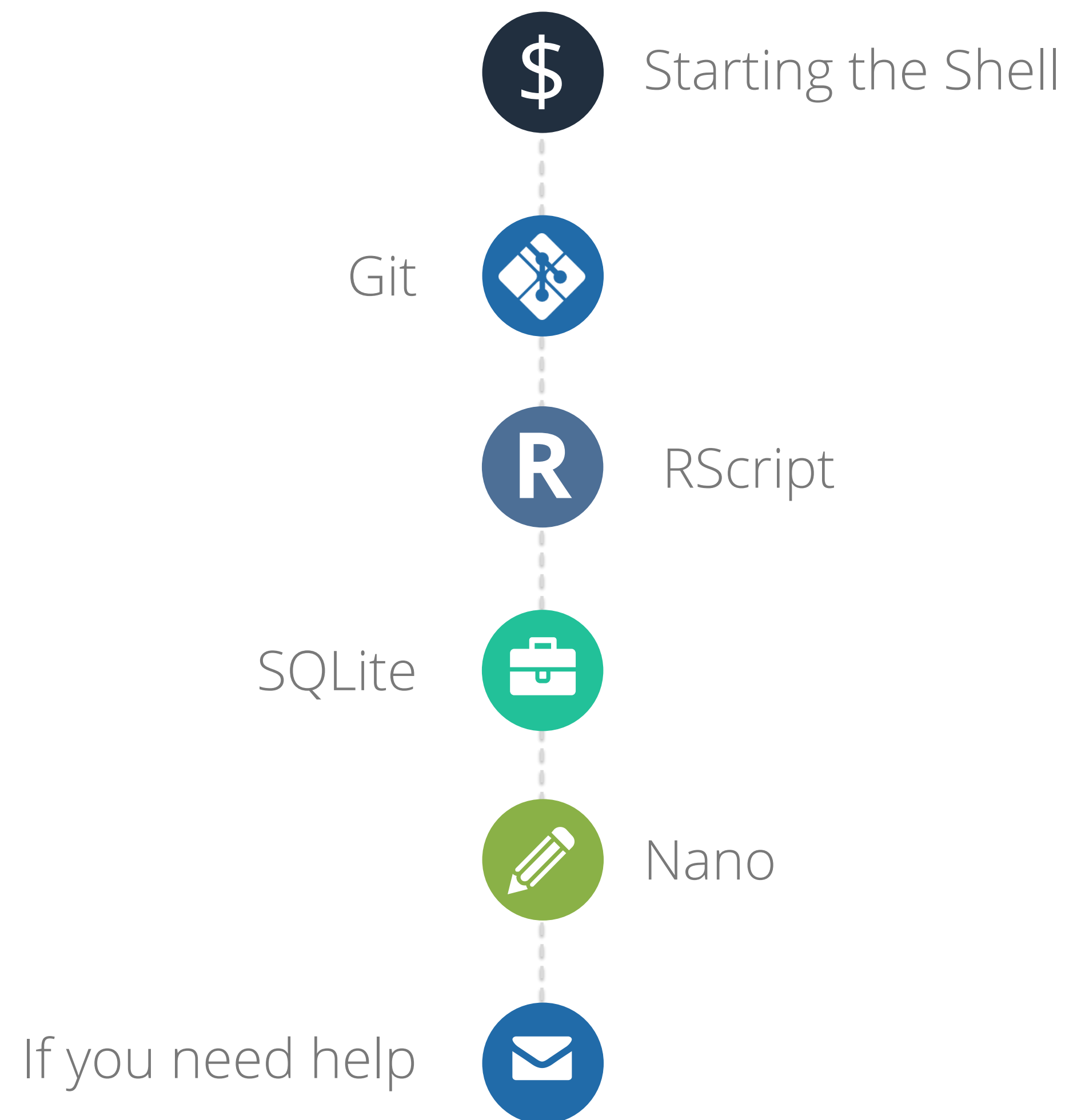
Checking your Installation

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Software Carpentry

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Checking you Installation for our Workshop



Bash\Terminal

Starting the Shell

Git Bash icon

Unix Command Line*

*The text in your shell might vary.



Windows – Git Bash

Windows users should have installed the Bash shell as part of running the Software Carpentry installer. Check your desktop and/or start menu for the icon on the left or a new entry labeled “Git Bash” or simply “Bash” ,



Mac – Terminal

Mac OS X includes a unix terminal by default. Check your applications folder for icon similar to the icon on the left.

Nelle@Zoidberg MINGW64 ~

\$

\$

Although your screen may contain different text, you should see a dollar sign.

This symbol represents a new command line, ready to receive input.

If you do not see this prompt, you may be using the wrong program.



The first command we will run is Git. Type “**git**” (no quotes) at the command line and press enter.

Regardless of operating system, you should see the screen quickly roll through text and left looking similar to this screen at left. If not, you may need to reinstall Git.

```
examine the history and state (see also: git help revisions)
  bisect      Use binary search to find the commit that introduced a bug
  grep        Print lines matching a pattern
  log          Show commit logs
  show         Show various types of objects
  status       Show the working tree status

grow, mark and tweak your common history
  branch       List, create, or delete branches
  checkout      Switch branches or restore working tree files
  commit        Record changes to the repository
  diff          Show changes between commits, commit and working tree, etc
  merge         Join two or more development histories together
  rebase        Forward-port local commits to the updated upstream head
  tag           Create, list, delete or verify a tag object signed with GPG

collaborate (see also: git help workflows)
  fetch         Download objects and refs from another repository
  pull          Fetch from and integrate with another repository or a local branch
  push          Update remote refs along with associated objects

'git help -a' and 'git help -g' list available subcommands and some
concept guides. See 'git help <command>' or 'git help <concept>'
to read about a specific subcommand or concept.

Nelle@Zoidberg MINGW64 ~
$
```


R RScript

Command: “**rscript**”

All Platforms

Type the command “**rscript**” at the command line and press enter. If you see the text to the right or something similar, you have successfully installed R for the workshop.

Error Message

```
$ rscript
bash: rscript: command not found
```

If you see the above message, R has either not been installed or you may have a system configuration issue.

Windows Troubleshooting

If you ran the Software Carpentry installer before installing R or did not run the installer, you might get this error message. After checking for R in your start menu, re-run the installer and try this test again.

```
Nelle@Zoidberg MINGW64 ~
$ rscript
Usage: /path/to/Rscript [--options] [-e expr [-e expr2 ...] | file] [args]

--options accepted are
--help             Print usage and exit
--version          Print version and exit
--verbose          Print information on progress
--default-packages=list
                    Where 'list' is a comma-separated set
                    of package names, or 'NULL'
or options to R, in addition to --slave --no-restore, such as
--save             Do save workspace at the end of the session
--no-environ       Don't read the site and user environment files
--no-site-file     Don't read the site-wide Rprofile
--no-init-file     Don't read the user R profile
--restore          Do restore previously saved objects at startup
--vanilla          Combine --no-save, --no-restore, --no-site-file
                    --no-init-file and --no-environ

'file' may contain spaces but not shell metacharacters
Expressions (one or more '-e <expr>') may be used *instead* of 'file'
See also ?Rscript from within R

Nelle@Zoidberg MINGW64 ~
$
```

SQLite

Command: "sqlite3"

```
Nelle@Zoidberg MINGW64 ~  
1 $ sqlite3  
SQLite version 3.9.2 2015-11-02 18:31:45  
Enter ".help" for usage hints.  
Connected to a transient in-memory database.  
Use ".open FILENAME" to reopen on a persistent database.  
2 sqlite> .exit  
  
Nelle@Zoidberg MINGW64 ~  
$
```



Key Points

1. The command is "sqlite3" not "sqlite"
2. To exit this application, you must type ".exit"

- To test our SQL software, you need to do both steps above. If you do not type the exit command, the next test will not work.
- The text your machine displays may be different based on your operating system and/or the version of SQLite installed.
- For this workshop, you must have SQLite installed and configured to run from the command line. Due to differences between SQL implementations, some of our instructions may not work in other versions of SQL.
- Often, red text can mean a warning or an error. Here, SQLite uses red text to give us a warning. If you see the warning above, your computer is properly configured for SQLite. We will discuss the meaning of this warning in our workshop.

Nano (Text Editor)

Command: "nano"



Key Points

- 1. Command is "nano"
- 2. Pre-installed on Macs and Linux machines.
- 3. To exit this application, you must press **Control + Q**

During the workshop, we'll discuss how and why you should include a text editor in your workflow. For Windows users, the Software Carpentry installer includes this program. It should be automatically installed at the same time as Git, Bash, and Sqlite. Other major operating systems come with this program by default. Please also see our workshop page for suggestions on alternative text editors.

Help and Exit Commands

```
GNU nano 2.2.6 New Buffer

^G Get Help ^O Write Out ^R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos
^X Exit     ^J Justify ^W Where I ^V Next Page ^U UnCut T ^T To Spell
```


Getting Help

What to do when you don't know what to do

Tuesday

Both workshop instructors will be travelling Tuesday and may not be available by email, depending on the time of day. We suggest contacting:

Ned Lemont Ned.Laman@noaa.gov

Jon French Jon.French@noaa.gov

Wednesday

If you are having difficulties with your installation and cannot resolve them in advance, please come early on Wednesday. Rachel, Ned, Jon, and John will be at the conference room before we begin instruction.

