Setting up a Dev Space

Welcome!



So you wanna write code?





This is what you need right?



moar rgb == better



But this is impractical..



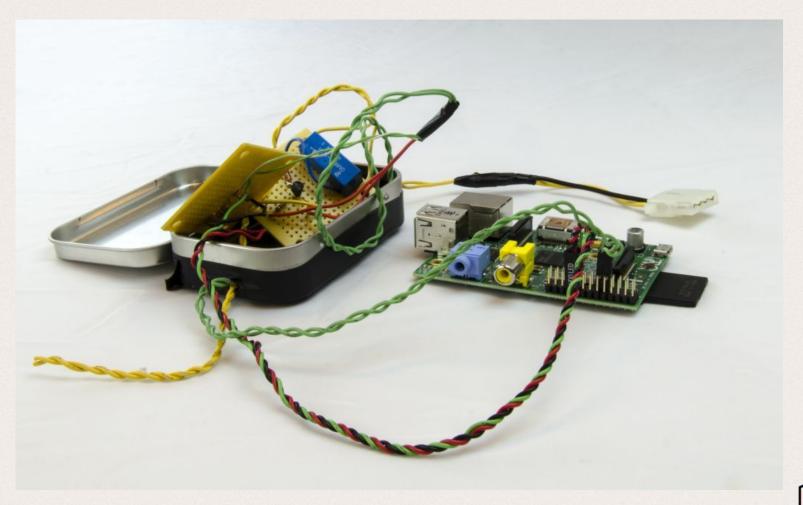


So we figured out size is a factor...





I'll just carry a raspberry pi!





We might need something more powerful than this!





But not much!

More than likely any mid range laptop will do!



Small and Powerful





You definitely need a Razer Blade



Redbrick
DCU's Networking Society

Or a macbook pro





And especially a dell xps





Now if you have a sugar daddy...

... by all means go and get one of these fantastic beasts









But you don't need these laptops

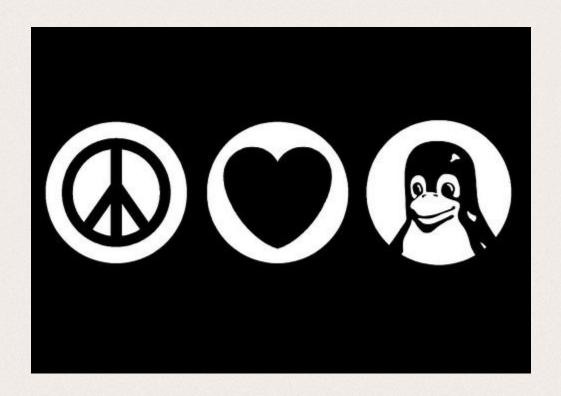
especially if you are running linux...







and we love linux



I love Linux.





Dells usually take linux well..

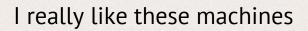
.. some even you can buy with ubuntu





Thinkpads are great too

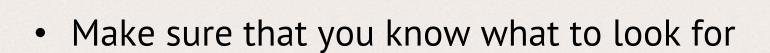








Adverts, Done Deal and Ebay



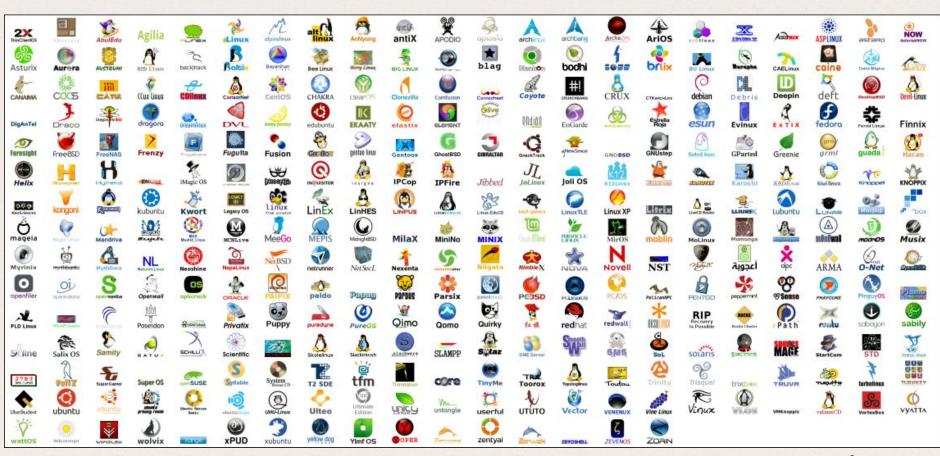


Don't be afraid to say when something is not up to standard

But they can be really good!

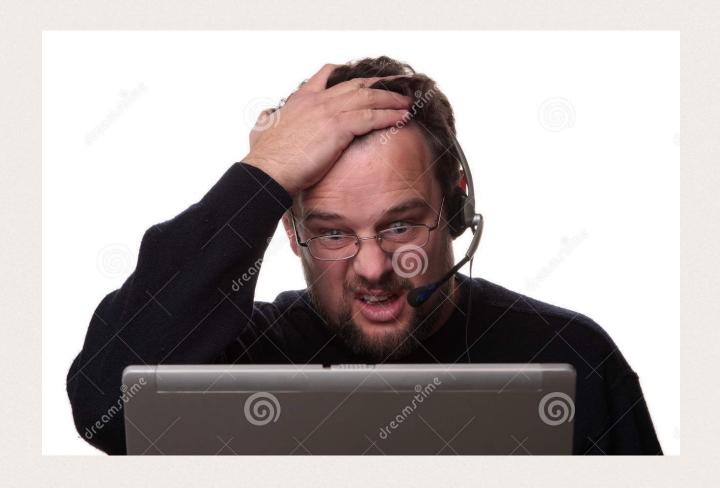


But there are so many versions of linux!





But there are so many versions of linux!











Ubuntu, Fedora or Linux Mint

All these distros are good starting points

They are both easy to install and easy to use



Now that you are all setup...

You want to write some code!





There are at least 2...



The two I speak of is emacs and vim



I have no idea how to use emacs



So I use vim



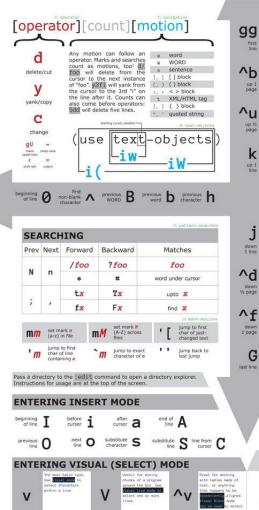
The whole point of it is you don't have to use the mouse

You can navigate and edit all you text with the keyboard



But.... It does have a steep learning curve





20 Quit without checking for changes (like :q!)

Filter motion with shell

Write current file

Use :scriptnames to list all files sourced during initialization.

Write current file and quit

Use :earlier and :later to quickly jump backward and forward in a file's history

Run a compiler and enter quickfix mode

Read external program output into current file

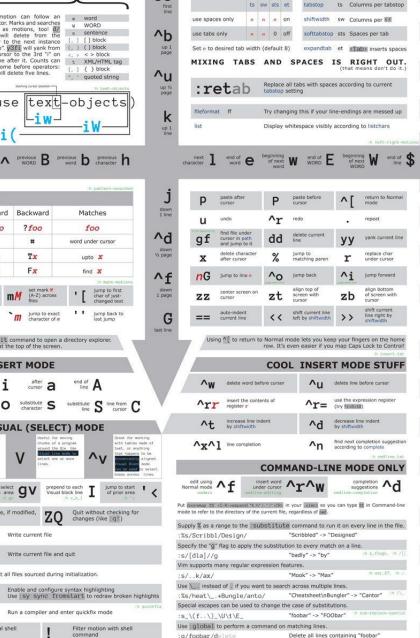
:write

:syntax

:make

:read

: wq



If your pattern contains slashes, just use a different character as your delimiter.

:s_Data/Lore_Brent Spiner

 $s_{d_{submatch(0)} + 1_g}$

Use \= to evaluate expressions with replacement groups.

:h <i>cmd</i>	Normal mode <i>cmd</i> help
:h i_ cmd	Insert mode <i>cmd</i> help
:h v_ <i>cmd</i>	Visual mode <i>cmd</i> help
:h c_ <i>cmd</i>	Command-line editing cmd help
:h : <i>cmd</i>	Command-line cmd help
:h 'option'	Option help
:helpgrep	Search through all help docs!

1	vim
	A TITT
	:h tags-and-seard
^]	Jump to tag under cursor, including [tags] in help files
^+	Jump back up the tag-list
-	

			:h keyroder
<cr></cr>	^m	\r	Enter
<tab></tab>	^i	\t	Tab
<c-n></c-n>	^n		Ctrl-n
<m-<i>n></m-<i>			Alt-n
<esc></esc>	^[Escape
<bs></bs>	^h	\b	Backspace
			Delete

7 words the word-sotions http://www.vimcheatsheet.com 1 WORD

	:h opti
:set opt?	View current value of opt
:set no <i>opt</i>	Turn off flag opt
:set opt	Turn on flag opt
:set opt=val	Overwrite value of opt
:set opt+=val	Append to value of opt
:echo &opt	Access opt as a variable

List all open files

Jump to next file

Jump to previous file

Open a file for editing

Remove file from the buffer list

Open a blank new file for editing

Split current window horizontally

Move cursor to window left, below, above or to

Move current window to left, bottom, top, or

Increase/decrease current window height/width

Split current window vertically

the right of the current window

Move current window to a new tab

Close all windows except current window

Execute a command in each open file

Rotate windows clockwise

Jump to unique file matching path. Use

<Tab> to scroll through available completions!

Jump to file n, number from first column of :ls

:ls

:bn

:b path

:bnext

:bprev

:edit

:enew

:split

:vsplit

^w hjkl

^w HJKL

^w +-<>

^w r

^w T

:only

:bufdo

:bdelete

hidden	hid	Lets you switch buffers without saving	
laststatus	ls	Show status line never (0), always (2) or with 2+ windows (1	
hisearch	hls	Highlight search matches. Also see 'highlight'	
number	nu	Show line numbers	
showcmd	sc	Show commands as you type them	
ruler	ru	Show line and column number of the cursor	
backspace	bs	Set to '2' to make backspace work like sane editors	
wrap		Control line wrapping	
background	bg	Set to 'dark' if you have a dark color scheme	

Use a instead of i when beginning textinclude delimiters or surrounding whitespace. For example, di (will change "(foo)" into "()", but da(will delete the parentheses as

Use : map to view all current custom key mappings. Read for a guide on which keys are best for your own custom mappings. Get used to Vim's help system it's a fantastic

resource!

REGISTERS are CLIPBOARDS All commands that delete, copy, or paste text use registers. To change which register is used by a command, type the register before the command. The default register is called "the unnamed register", and it is invoked with a pair of double-quotes ("""). Typ-

ing dd or yy is the same as typing ""dd or ""yy. Think of the first " as a short way

of saying "register",	so IIII is pronounced	"register ", and "a, "register a".
:regis	sters	View all current registers
:echo	@r	Access register r as a variable
"/	Last search pattern register	Contains the last pattern you searched for
"_	The black hole register	Use this to delete without clobbering any register ($"_dd$)
"0	Last yank register	Contains the last text you yanked
"1	Last big delete register	Contains the last line(s) you deleted
"2-"9	Big delete register stack	Every time "1 is written to, its content is pushed to "2, then "2 to "3, and so on
"-	Small delete register	Contains the last text you deleted within a single line
"+	System clipboard	If the OS integration gods smile upon you, this register reads and writes to your system clipboard.
"a-"z	Named registers	26 registers for you to play with
"A-"Z	Append registers	Using upper-case to refer to a register will append to it rather than overwrite it
q r	Record	Record into register ${m r}$. Stop recording by hitting $\overline{{\bf q}}$ again
@ r	Playback	Execute the contents of register \boldsymbol{r}

Repeat the last @r, this is particularly useful with a count

Repeat last





If you want an easier text editor to get you started you can look into:

- atom
- VS code
- sublime
- gedit
- nano



These are integrated development environments...



These are integrated development environments...

They do a lot of work for you



These are integrated development environments...

- They do a lot of work for you
- They autocomplete words



These are integrated development environments...

- They do a lot of work for you
- They autocomplete words
- Auto add brackets
- And sooo much more.....



BUT...



You don't wanna use it....



Now that may be controversial



Now that may be controversial

But in my opinion they hinder learning



Now that may be controversial

But in my opinion they hinder learning

You won't have one in an exam, coding interview, etc



By all means when you get out into industry and are writing

professional

Get an IDE it will make you life so much better!



But when you are learning as a student

Do as much as you can manually so you learn how things work



A better solution?

I am going to introduce you very slightly to my setup...

.. not that it is good just a taste of the vast customizability you can get with linux



```
answers = []
 N = int(input())
 while N > 0:
    noAd, ad, cost = input().split(" ")
    profit = int(ad) - int(cost)
    noAd = int(noAd)
    if profit > noAd:
      answers.append(
    elif profit == noAd:
      answers.append(
      answers.append("
 for answer in answers:
    print(answer)
   _name__ == '__main__':
 main()
                                                                                         1,1
greenday@saturn:~/Documents/katti<u>s$ python3</u>
                                                                             tarifa.py
```

u need random junk on this side of the screenI like random junk and sometimes you need random junk on thi s side of the screenI like random junk and sometimes you need random junk on this side of the screenI lik e random junk and sometimes you need random junk on this side of the screenI like random junk and sometim es you need random junk on this side of the screenI like random junk and sometimes you need random junk o n this side of the screenI like random junk and sometimes you need random junk on this side of the screen I like random junk and sometimes you need random junk on this side of the screenI like random junk and so metimes you need random junk on this side of the screenI like random junk and sometimes you need random j unk on this side of the screenI like random junk and sometimes you need random junk on this side of the s creenI like random junk and sometimes you need random junk on this side of the screenI like random junk a nd sometimes you need random junk on this side 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greenday@saturn:~/Documents/kattis\$ python3
modulo.py nastyhacks.py QuadrantSelect.py r2.py
greenday@saturn:~/Documents/kattis\$ python3 nastyhacks.py
1 2 3
Traceback (most recent call last):
 File "nastyhacks.py", line 20, in <module>
 main()
 File "nastyhacks.py", line 3, in main
 N = int(input())
ValueError: invalid literal for int() with base 10: '1 2 3'
greenday@saturn:~/Documents/kattis\$

rick

```
ef main():
answers = []
 N = int(input())
 while N > 0:
    noAd, ad, cost = input().split(" ")
    profit = int(ad) - int(cost)
    noAd = int(noAd)
    if profit > noAd:
      answers.append(
    elif profit == noAd:
      answers.append(
      answers.append(
 for answer in answers:
    print(answer)
   __name__ == '__main__':
 main()
greenday@saturn:~/Documents/katti<u>s$ python3</u>
                  nastyhacks.pv
                                     QuadrantSelect.py r2.py
                                                                             tarifa
greenday@saturn:~/Documents/kattis$ python3 nastyhacks.pv
Traceback (most recent call last):
 File "nastyhacks.py", line 20, in <module>
```

u need random junk on this side of the screenI like random junk and sometimes you need random junk on thi s side of the screenI like random junk and sometimes you need random junk on this side of the screenI lik e random junk and sometimes you need random junk on this side of the screenI like random junk and sometim es you need random junk on this side of the screenI like random junk and sometimes you need random junk o n this side of the screenI like random junk and sometimes you need random junk on this side of the screen

As you can see I am using tmux

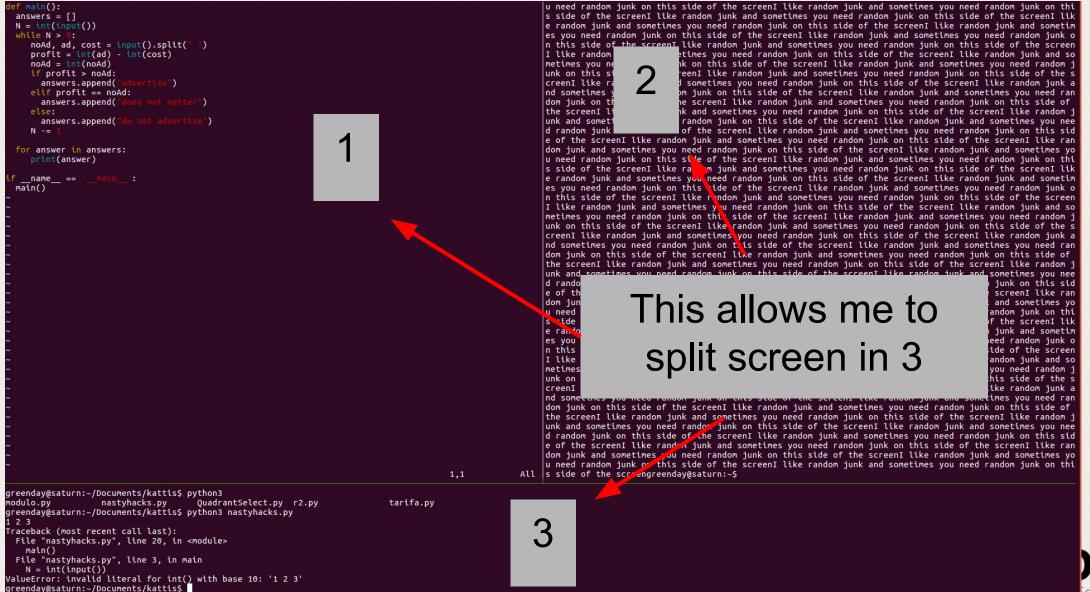
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File "nastyhacks.py", line 3, in main N = int(input()) ValueError: invalid literal for int() with base 10: '1 2 3' greenday@saturn:~/Documents/kattis\$



File "nastyhacks.py", line 20, in <module>

ValueError: invalid literal for int() with base 10: '1 2 3'

File "nastyhacks.py", line 3, in main

greenday@saturn:~/Documents/kattis\$

N = int(input())

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u need random junk on this side of the screenI like random junk and sometimes you need random junk on thi
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greenday@saturn:~/Documents/katti<u>s$ python3</u>
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                                    QuadrantSelect.py r2.py
                                                                           tarifa.py
                                                                                                           Where I run
greenday@saturn:~/Documents/kattis$ python3 nastyhacks.pv
Traceback (most recent call last):
```

the program

prick

N = int(input())

greenday@saturn:~/Documents/kattis\$

ValueError: invalid literal for int() with base 10: '1 2 3'

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ef main():
answers = []
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greenday@saturn:~/Documents/kattis$ python3
                  nastyhacks.py
                                    QuadrantSelect.py r2.py
                                                                           tarifa.py
greenday@saturn:~/Documents/kattis$ python3 nastyhacks.pv
Traceback (most recent call last):
 File "nastyhacks.py", line 20, in <module>
 File "nastyhacks.py", line 3, in main
```





First python:



First python2

If you are on ubuntu linux it is already installed:

python2

This will bring up a python shell

To run your written python type

python2 your_file.py



For python3

If you are on ubuntu linux it is already installed:

python3

This will bring up a python shell

To run your written python type

python3 your_file.py



We can't tell you how to install every language on every operating system



But we have a friend who can!





What you need to find

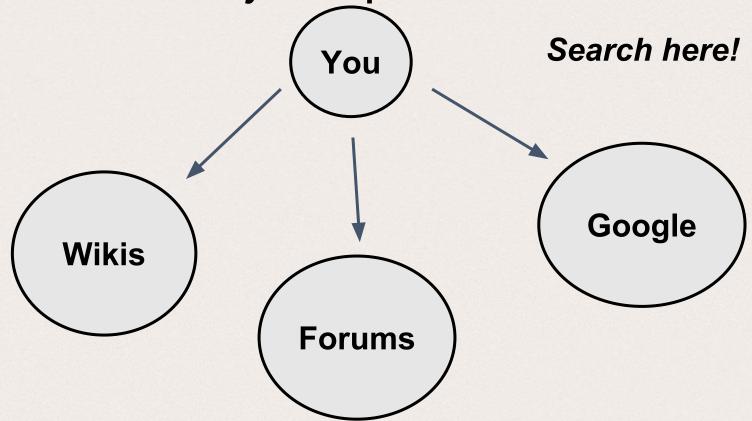
```
Search:
How to install {x} on {y}
where {x} = language
{y} = operating system
```

e.g. for fedora and ruby

sudo dnf install ruby



If you need any help..



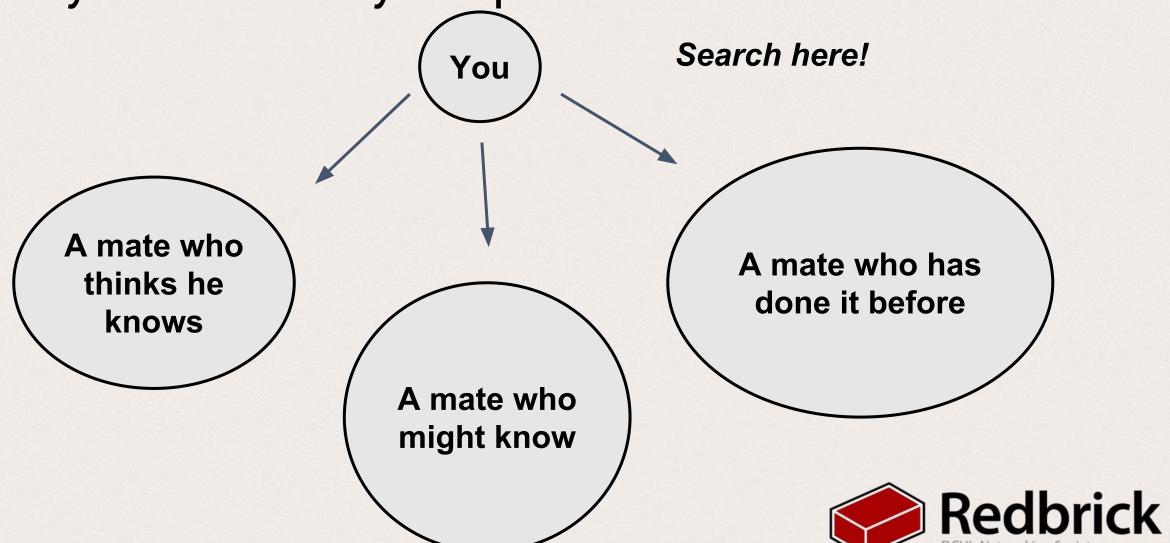


Can't find what you're looking for?





If you need any help..

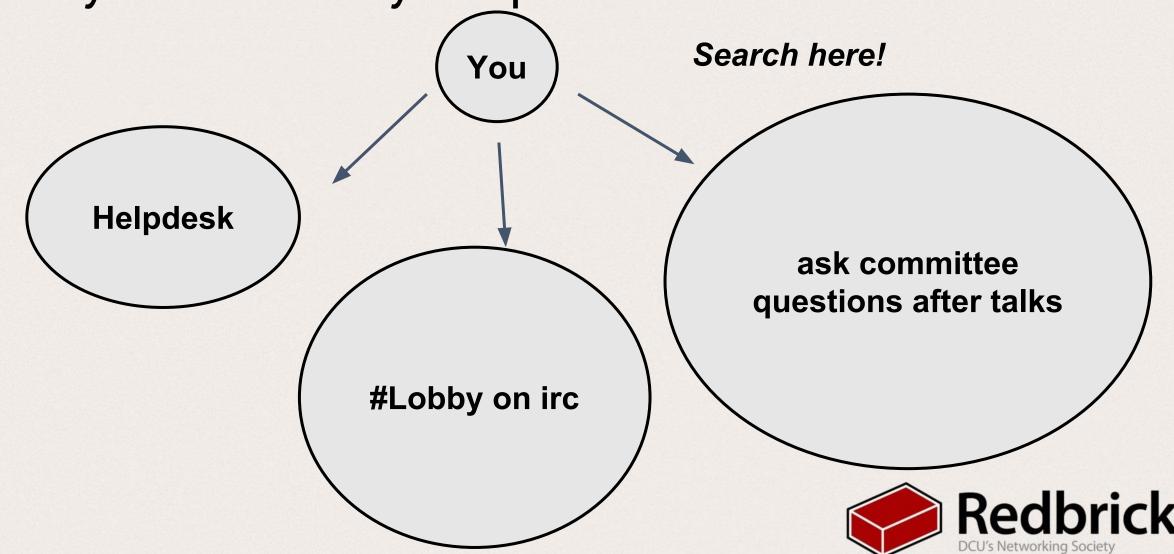


Can't find what you're looking for?





If you need any help..



Anyone interested in an install fest?

Everyone come together and tries to install linux at the same time together and help each other.



RIGHT NOW THOUGH

We have an egm right after this talk and you all need to come

We need a first year rep and



RIGHT NOW THOUGH

We have an egm right after this talk and you all need to come We need a first year rep and





And tomorrow

We have the fabulous Ben give an intro to using your webspace



