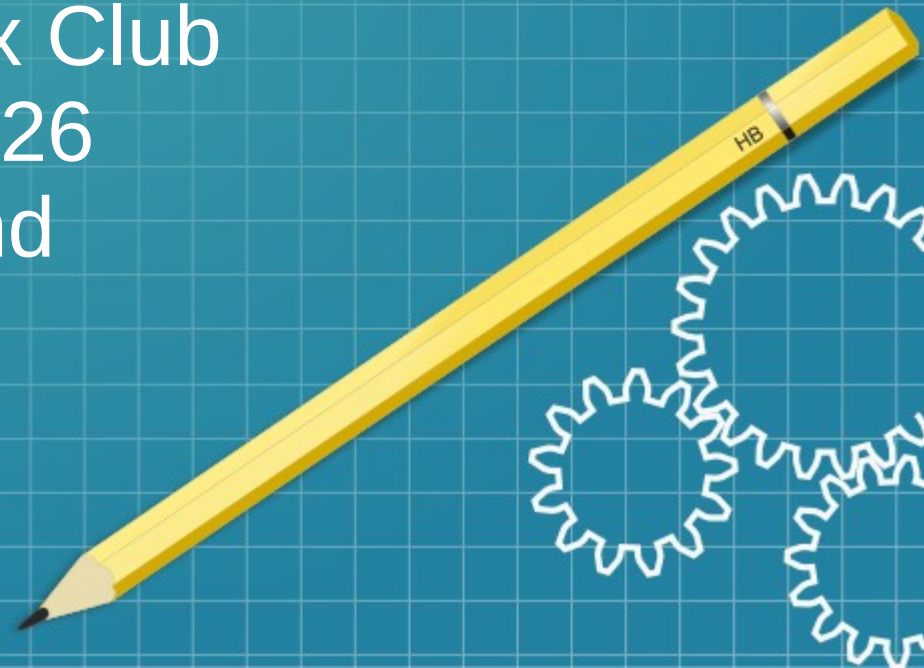
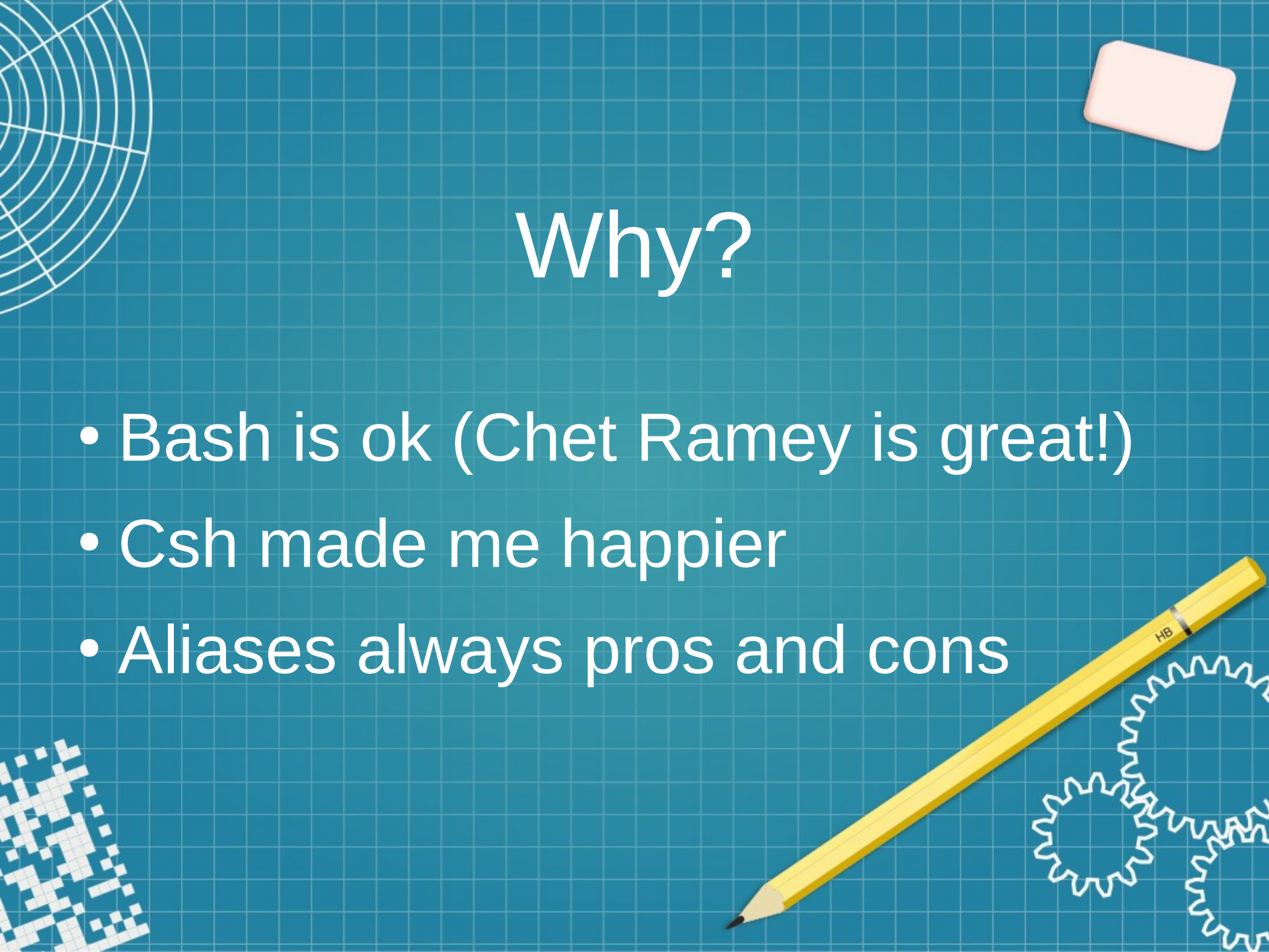




CWRUsh (“croosh”)

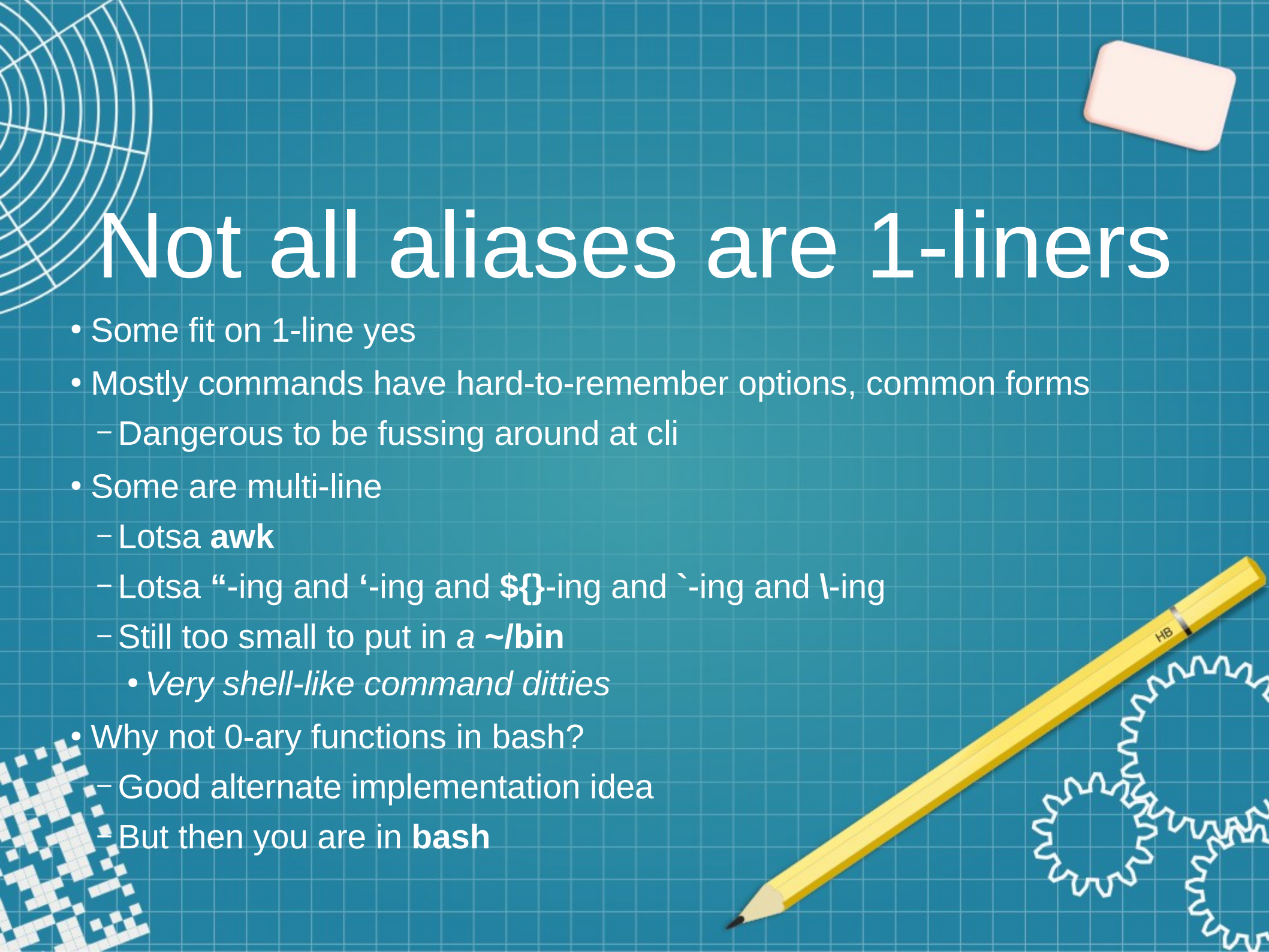
RPL for Linux Club
Apr 11, 2026
Cleveland





Why?

- Bash is ok (Chet Ramey is great!)
- Csh made me happier
- Aliases always pros and cons



Not all aliases are 1-liners

- Some fit on 1-line yes
- Mostly commands have hard-to-remember options, common forms
 - Dangerous to be fussing around at cli
- Some are multi-line
 - Lotsa **awk**
 - Lotsa “-ing and ‘-ing and **\${}-ing** and **`-ing** and **\-ing**
 - Still too small to put in a **~/bin**
 - *Very shell-like command ditties*
- Why not 0-ary functions in bash?
 - Good alternate implementation idea
 - But then you are in **bash**

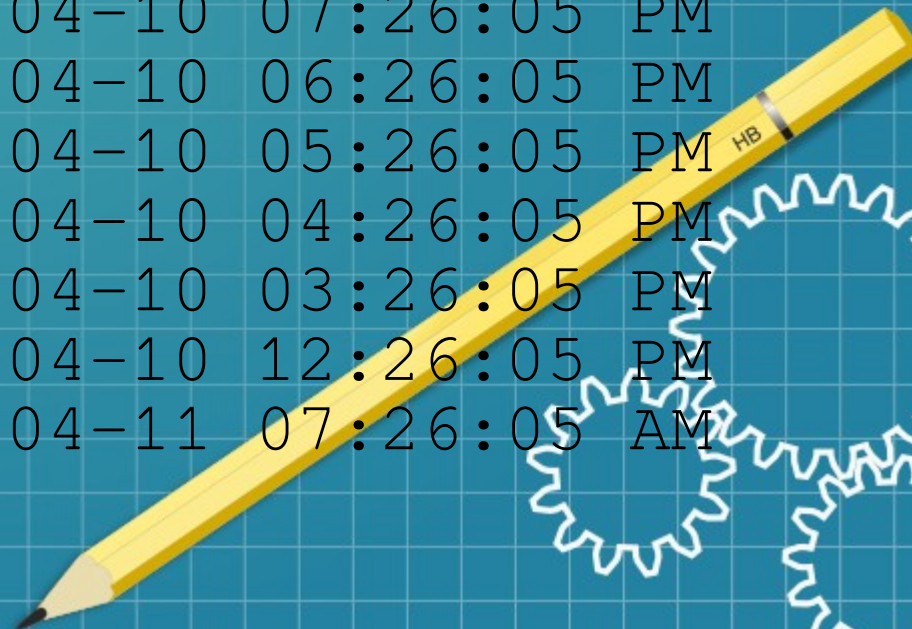


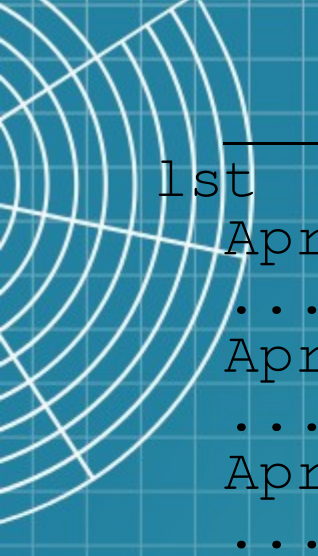
```
root@hwsrv-660825:/var/www/html/sp8#  
./cwrush3
```

date

date

Tokyo:	2026-04-11	07:26:05	AM
Kyiv:	2026-04-11	01:26:05	AM
TelAv:	2026-04-11	01:26:05	AM
Paris:	2026-04-11	12:26:05	AM
London:	2026-04-10	11:26:05	PM
Lagos:	2026-04-10	11:26:05	PM
BAires:	2026-04-10	07:26:05	PM
Eastern:	2026-04-10	06:26:05	PM
Central:	2026-04-10	05:26:05	PM
Mountain:	2026-04-10	04:26:05	PM
WestCoast:	2026-04-10	03:26:05	PM
Hawaii:	2026-04-10	12:26:05	PM
Tokyo:	2026-04-11	07:26:05	AM

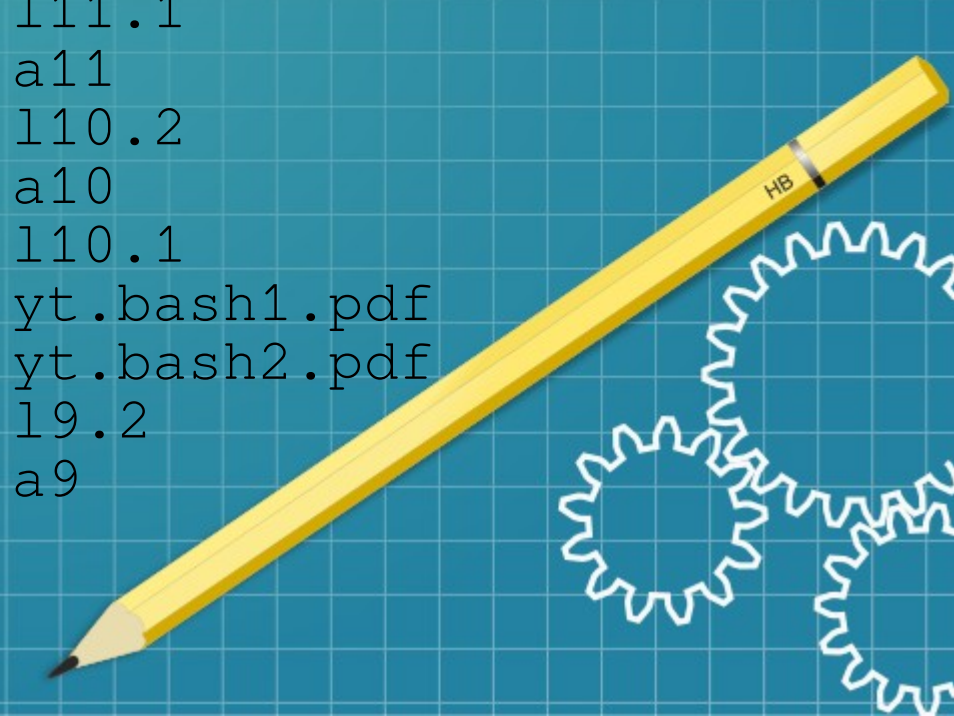




lst

Apr	10	04:37	100.30MB	obsLabs
...	9	07:01	8.98MB	cwrush3
Apr	8	05:29	104.81MB	immunization
...	...	05:27	0.01MB	l12.2
Apr	8	05:26	217.31MB	jqchat.pdf
...	6	20:39	5.96MB	cwrush2
Apr	...	18:19	5.75MB	cwrush2.bak
...	6	07:06	4.57MB	cwrush
Apr	...	03:23	9.50MB	l12.1
...	4	02:47	5.00MB	a12
Apr	3	03:36	0.14MB	l11.2
Mar	30	03:31	0.07MB	l11.1
...	28	03:35	3.15MB	a11
Mar	25	03:43	0.01MB	l10.2
...	...	03:37	1.30MB	a10
Mar	22	23:59	0.01MB	l10.1
...	...	23:54	146.09MB	yt.bash1.pdf
Mar	22	23:54	478.67MB	yt.bash2.pdf
...	18	03:07	24.91MB	l9.2
Mar	17	02:31	1.09MB	a9

continue (or q/n/N/Q)?



contents

1.php

5 5 51 1.php
today system

2.php

7 30 258 2.php
output lines topics shell match http foreach explode c1038wnxny7t

a1

43 368 2310 a1
hello directory verify tuesday print monday wednesday thursday sunday
starting script saturday pg21990 permissions languages https gutenber
friday explain download

a10

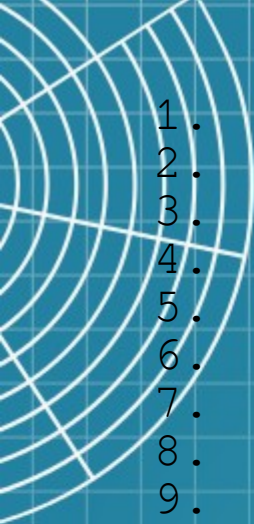
47 219 1303 a10
links external codereserve points explain about where using things program
written without which website upload understandable three those syntax
submitting

a11

47 526 3154 a11
program points double surprising precedence value takes string operator
fields everyone every using under txtlinks these still single right reads

a12

129 869 4997 a12
command return confirm system cwrush better though tailf simple points
pname hgrep function explain commands color aliases whole which thinking
continue (or q/n/N/Q)?



HIST

1. makefeatures.awk
2. ./cwrush3
3. /var/www/cgi/colvindiagram3.cgi
4. showslab.awk
5. showbuddy.awk
6. features2vectors.awk
7. heapwalk.c
8. /var/www/html/oldweb/loul.html
9. /var/www/cgi/colvindiagram3a.cgi
10. launchall.awk
11. randmalloc.c
12. out.heapwalk
13. ngrams.awk
14. meminfo.awk
15. catproc.awk
16. out.launchall
17. out.dataset3
18. cleanwiki.awk
19. out.ngrams.features
20. out.ngrams

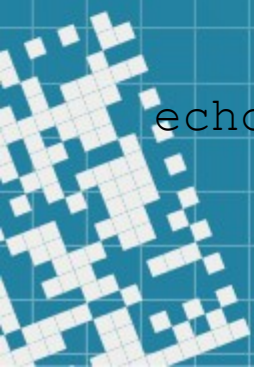
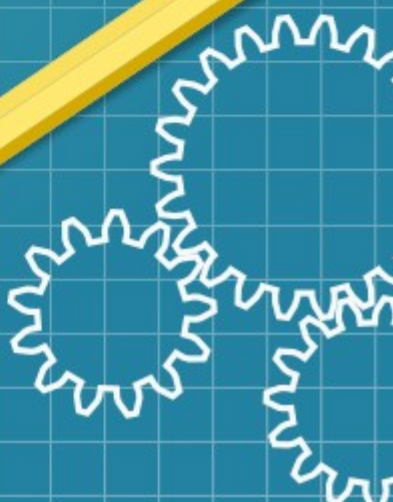
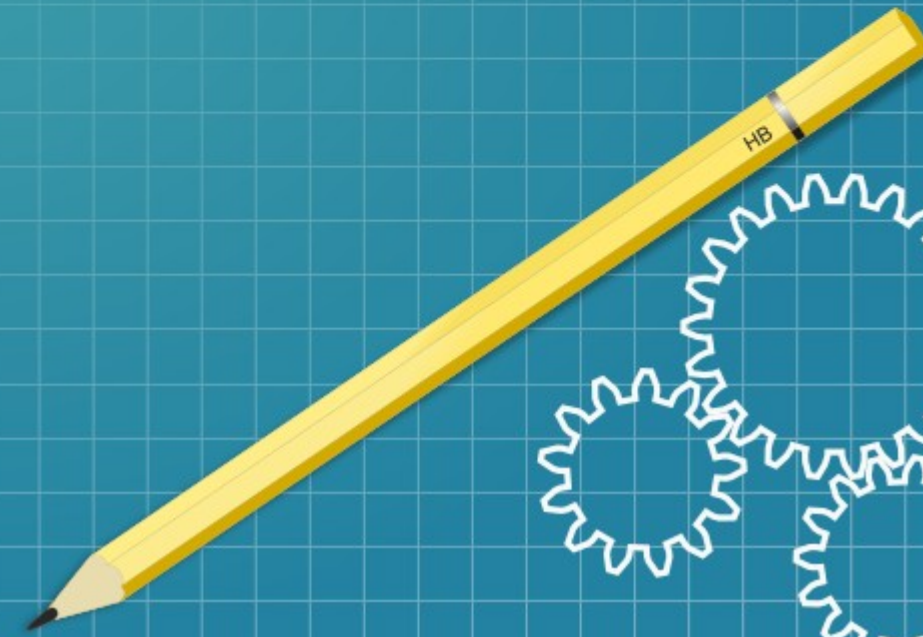
continue (or q/n/N/Q)? q

echo HIST7

EXECUTE:

echo heapwalk.c

(or q/n/N/Q)?





oman grep

EXECUTE:

man grep | grep '^ *-' | less

(or `man/N/O`)

oman

--help Output a usage message and exit.

-V, --version

-E, --extended-regexp

-F, --fixed-strings

-G, --basic-regexp

-P, --perl-regexp

-e PATTERN, --regexp=PATTERN

-f FILE, --file=FILE

-i, --ignore-case

-v, --invert-match

-w, --word-regexp

-x, --line-regexp

-y Obsolete synonym for -i.

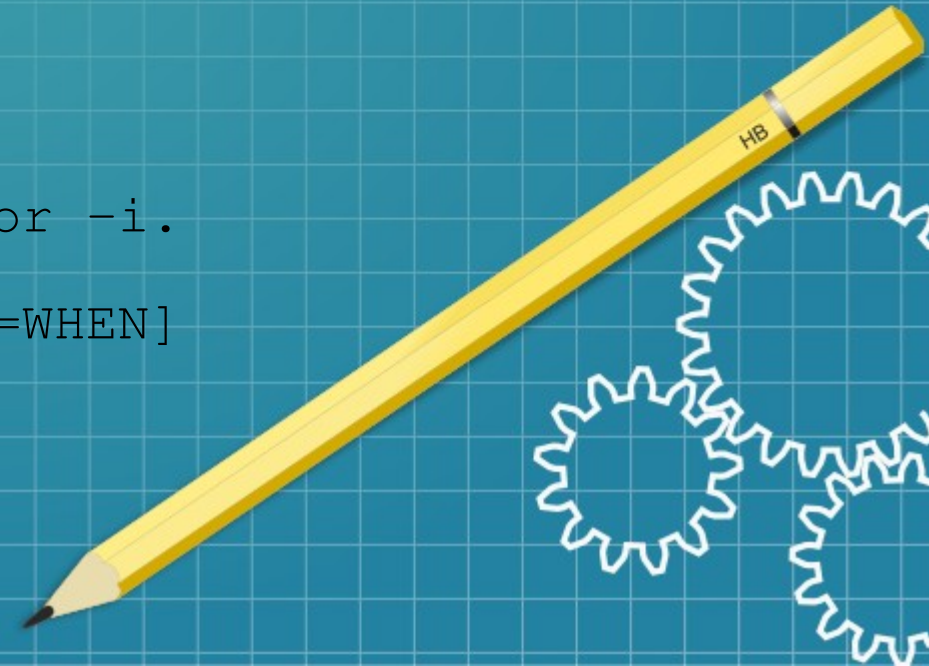
-c, --count

--color[=WHEN], --colour[=WHEN]

-L, --files-without-match

-l, --files-with-matches

-m NUM, --max-count=NUM





```
findu /etc
```

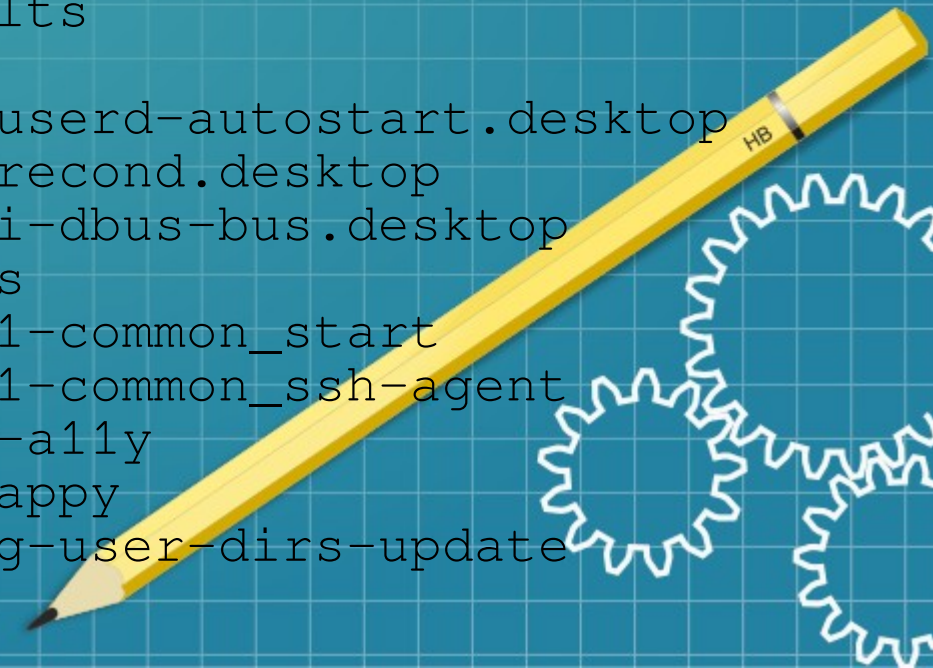
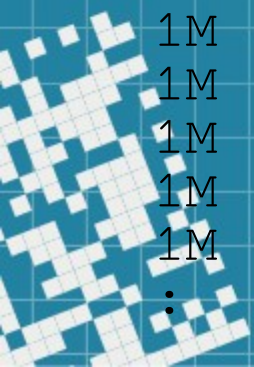
```
EXECUTE:
```

```
find /etc -type f -exec du -sBM {} + 2>/dev/null |  
sort -rn | less
```

findu (from Chen Ding)

```
3M      /etc/selinux/default/policy/policy.29  
2M  
/etc/selinux/default/contexts/files/file_contexts.bin  
1M      /etc/zsh_command_not_found  
1M      /etc/xml/xml-core.xml.old  
1M      /etc/xml/xml-core.xml  
1M      /etc/xml/catalog.old  
1M      /etc/xml/catalog  
1M      /etc/xdg/user-dirs.defaults  
1M      /etc/xdg/user-dirs.conf  
1M      /etc/xdg/autostart/snap-userd-autostart.desktop  
1M      /etc/xdg/autostart/restorecond.desktop  
1M      /etc/xdg/autostart/at-spi-dbus-bus.desktop  
1M      /etc/X11/Xsession.options  
1M      /etc/X11/Xsession.d/99x11-common_start  
1M      /etc/X11/Xsession.d/90x11-common_ssh-agent  
1M      /etc/X11/Xsession.d/90qt-all  
1M      /etc/X11/Xsession.d/65snappy  
1M      /etc/X11/Xsession.d/60xdg-user-dirs-update
```

```
:
```



ps2

ps2

USER	PID	RSSMB	COMMAND
root	1575	25.68MB	/usr/sbin/apache2 -k start
www-data	30409	9.91MB	/usr/sbin/apache2 -k start
www-data	29776	9.91MB	/usr/sbin/apache2 -k start
www-data	28466	9.90MB	/usr/sbin/apache2 -k start
www-data	30437	9.90MB	/usr/sbin/apache2 -k start

USER	PID	%CPU	%MEM	VSZ	RSS	TTY	STAT	START	TIME	COMMAND
www-data	3477	0.0	0.4	256108	9240	?	S	22:00	0:00	/usr/sbin/apache2 -k start
www-data	3197	0.0	0.4	256116	9292	?	S	20:46	0:00	/usr/sbin/apache2 -k start
www-data	30639	0.0	0.4	256388	9560	?	S	11:05	0:00	/usr/sbin/apache2 -k start
www-data	30437	0.0	0.4	256484	9900	?	S	10:27	0:00	/usr/sbin/apache2 -k start
www-data	30418	0.0	0.4	256484	9896	?	S	10:26	0:01	/usr/sbin/apache2 -k start

free2

free2

EXECUTE:

```
vmstat | tail -1 | awk '{ print ($4+$6)/1000  
"MB" }'; vmstat | sed -e "s/cache/ cache/"
```

(or q/n/N/Q)?

1766.61MB

procs		-----memory-----				---swap--		-----io-----		-system-			-----cpu-----				
r	b	swpd	free	buff	cache	si	so	bi	bo	in	cs	us	sy	id	wa	st	
0	0	34564	276484	219932	1490508	0	0	2	7	1	0	0	2	97	0	0	



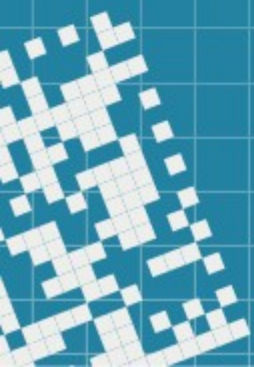
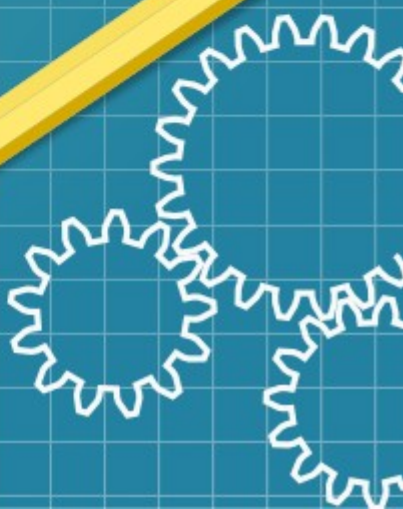
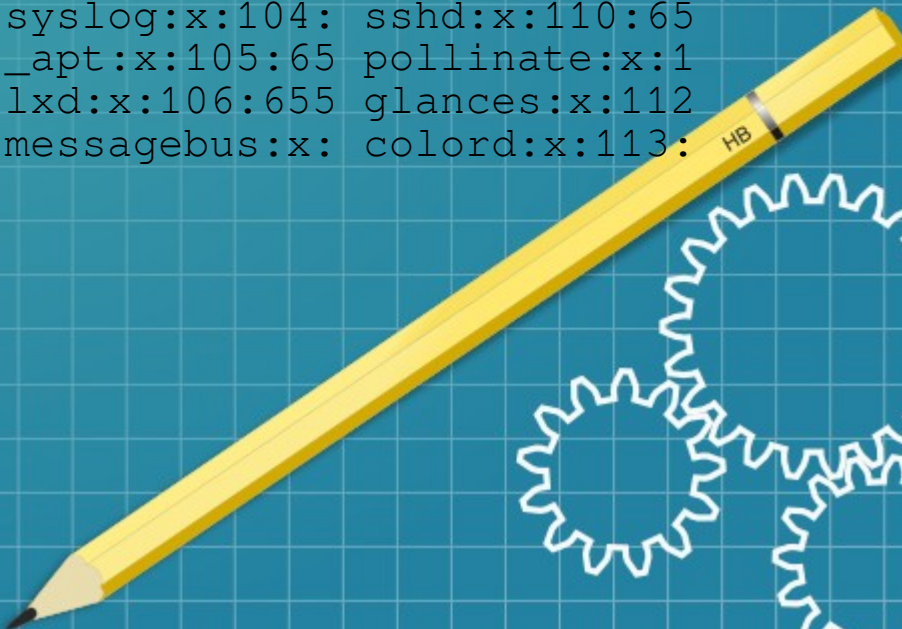
col5

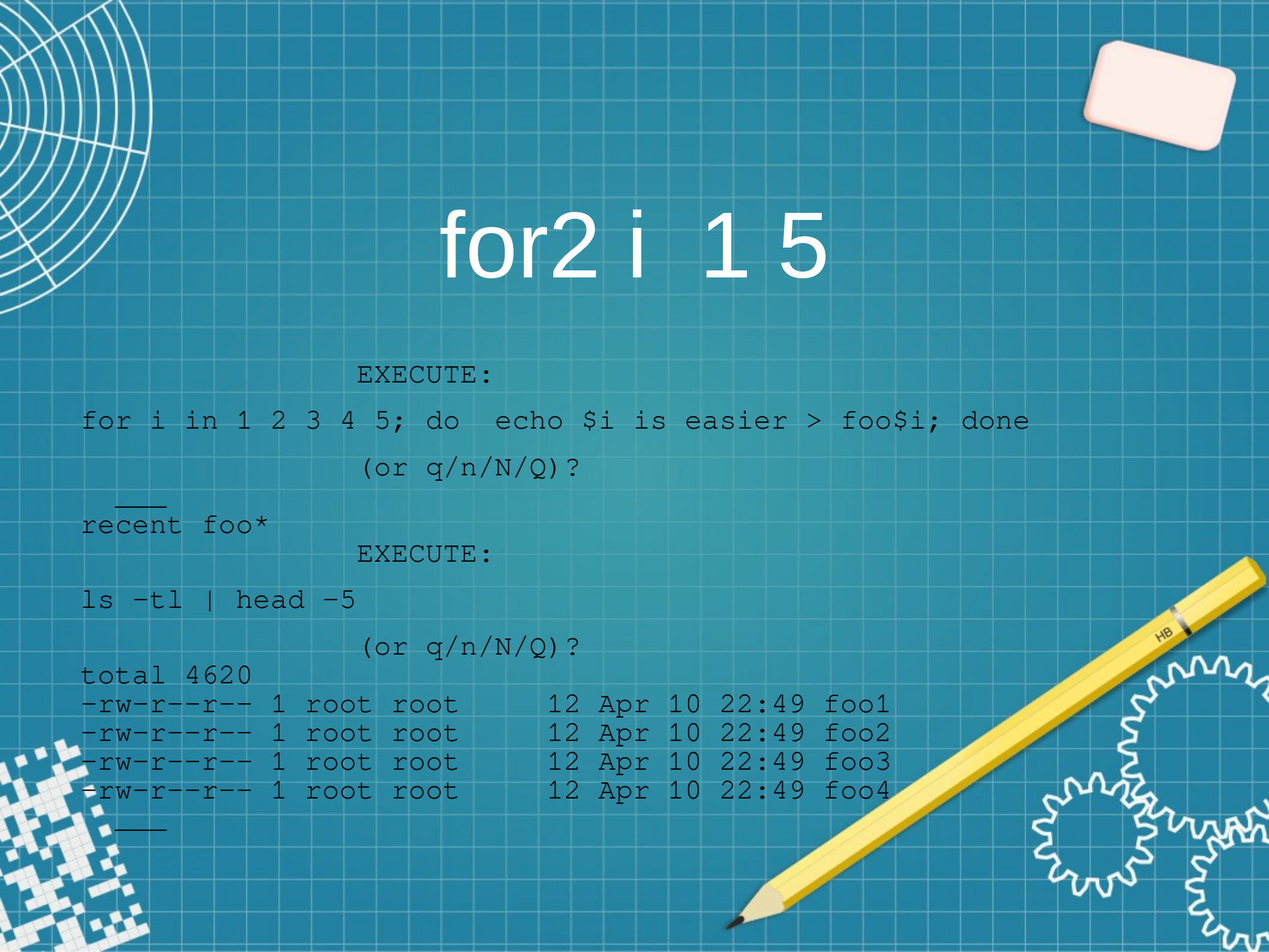
```
col5 awk '{print $1}' /etc/passwd  
EXECUTE:
```

```
awk '{print $1}' /etc/passwd | xargs -n1 | pr -t -5
```

(or q/n/N/Q)?

```
root:x:0:0:ro lp:x:7:7:lp:/ list:x:38:38: systemd-resol uiddd:x:108:1  
daemon:x:1:1: mail:x:8:8:ma irc:x:39:39:i systemd-bus-p dnsmasq:x:109  
bin:x:2:2:bin news:x:9:9:ne gnats:x:41:41 syslog:x:104: sshd:x:110:65  
sys:x:3:3:sys uucp:x:10:10: nobody:x:6553 _apt:x:105:65 pollinate:x:1  
sync:x:4:6553 proxy:x:13:13 systemd-times lxd:x:106:655 glances:x:112  
games:x:5:60: www-data:x:33 systemd-netwo messagebus:x: colord:x:113:  
man:x:6:12:ma backup:x:34:3
```





for2 i 1 5

EXECUTE:

```
for i in 1 2 3 4 5; do echo $i is easier > foo$i; done  
(or q/n/N/Q)?
```

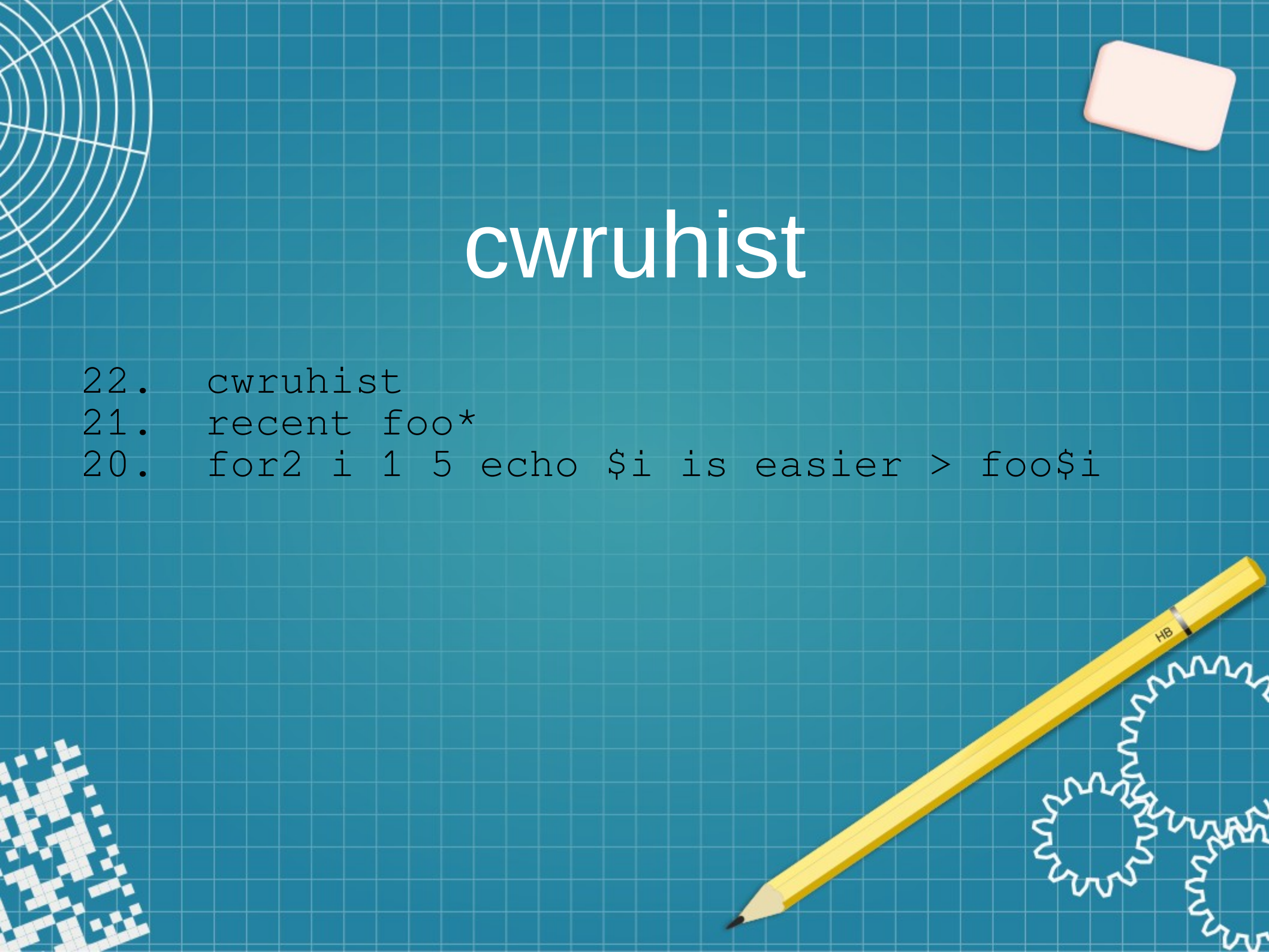
recent foo*

EXECUTE:

```
ls -tl | head -5
```

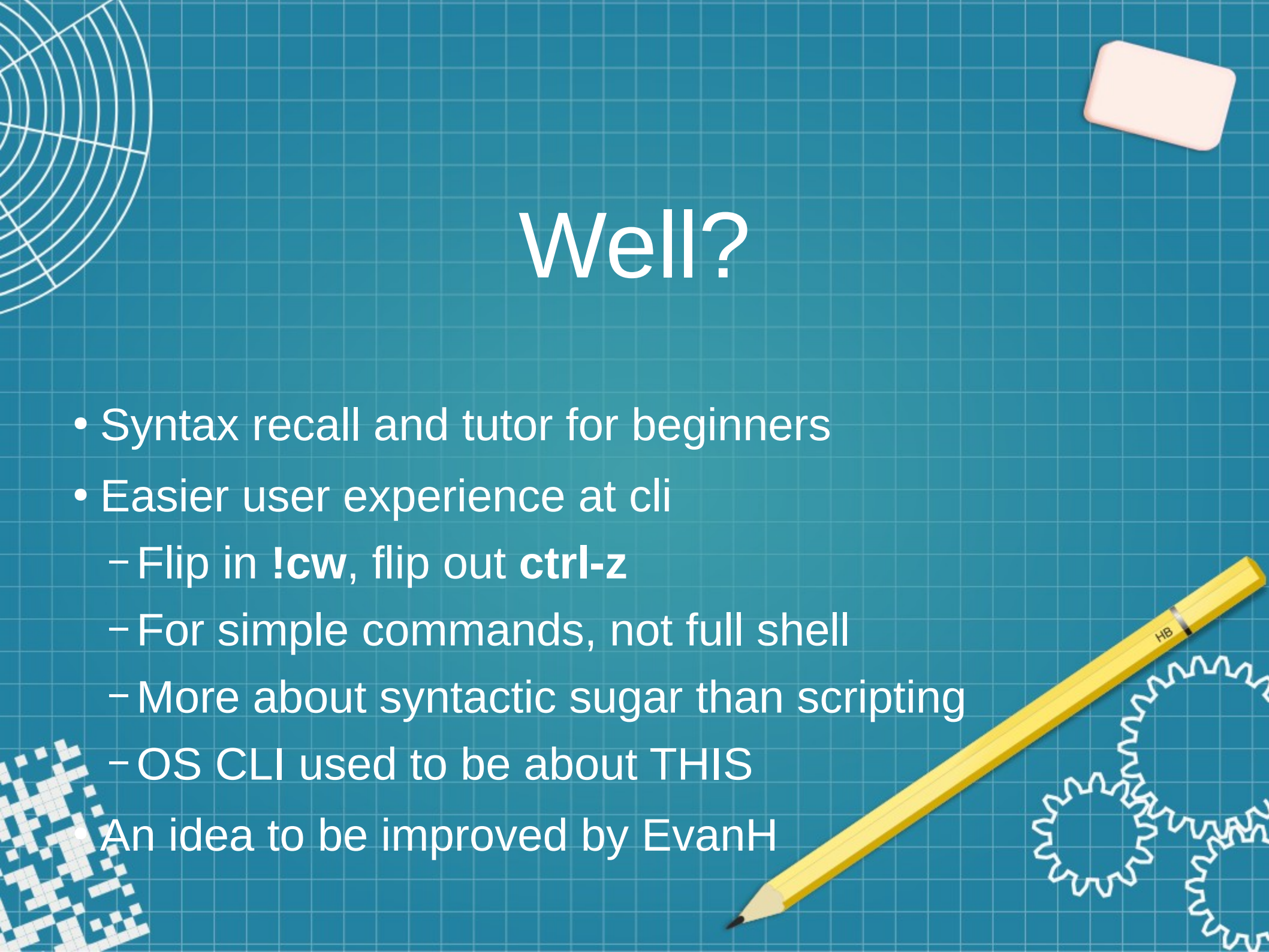
(or q/n/N/Q)?

```
total 4620  
-rw-r--r-- 1 root root      12 Apr 10 22:49 foo1  
-rw-r--r-- 1 root root      12 Apr 10 22:49 foo2  
-rw-r--r-- 1 root root      12 Apr 10 22:49 foo3  
-rw-r--r-- 1 root root      12 Apr 10 22:49 foo4
```



cwruhist

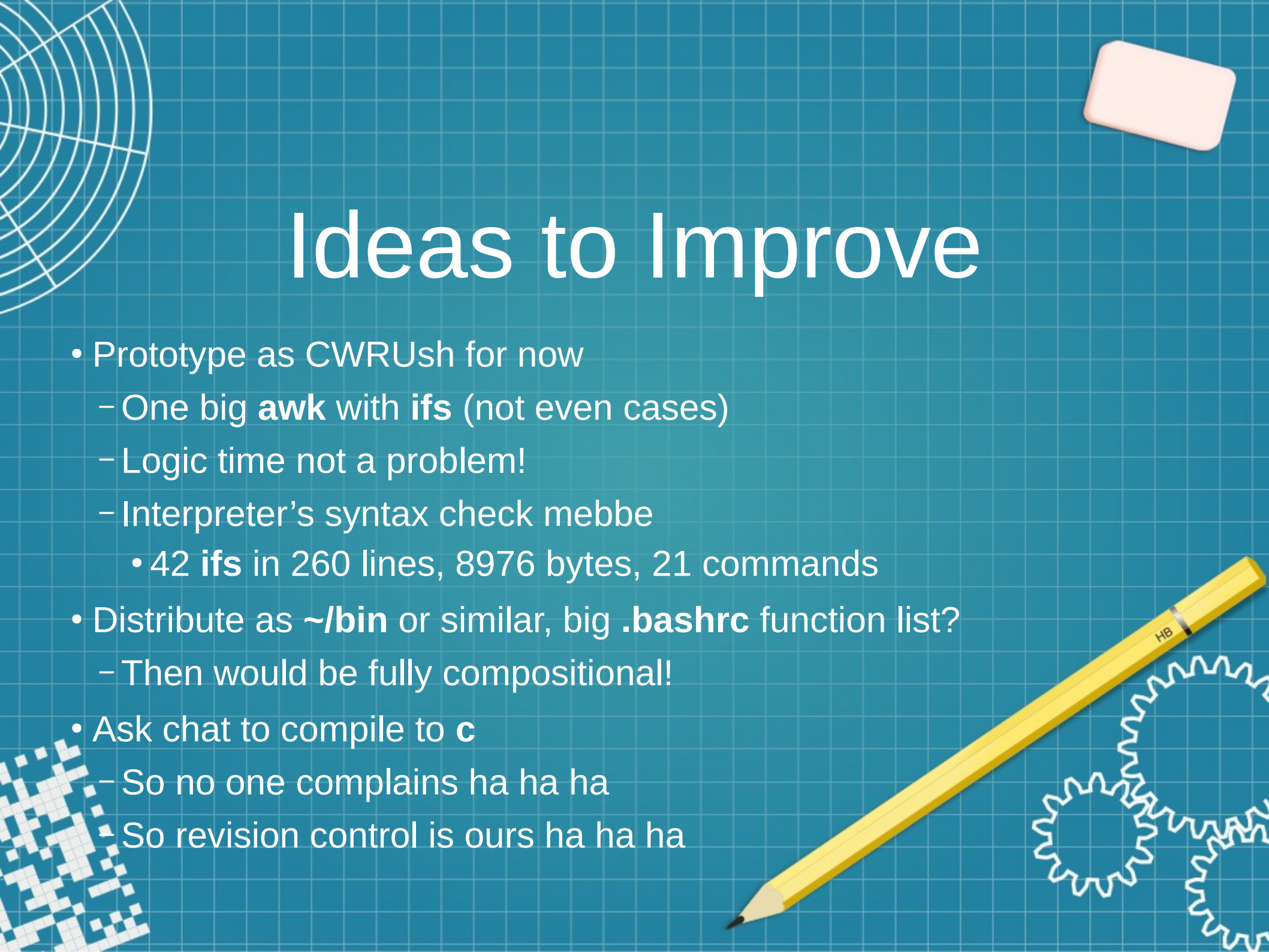
```
22.  cwruhist
21.  recent foo*
20.  for2 i 1 5 echo $i is easier > foo$i
```



Well?

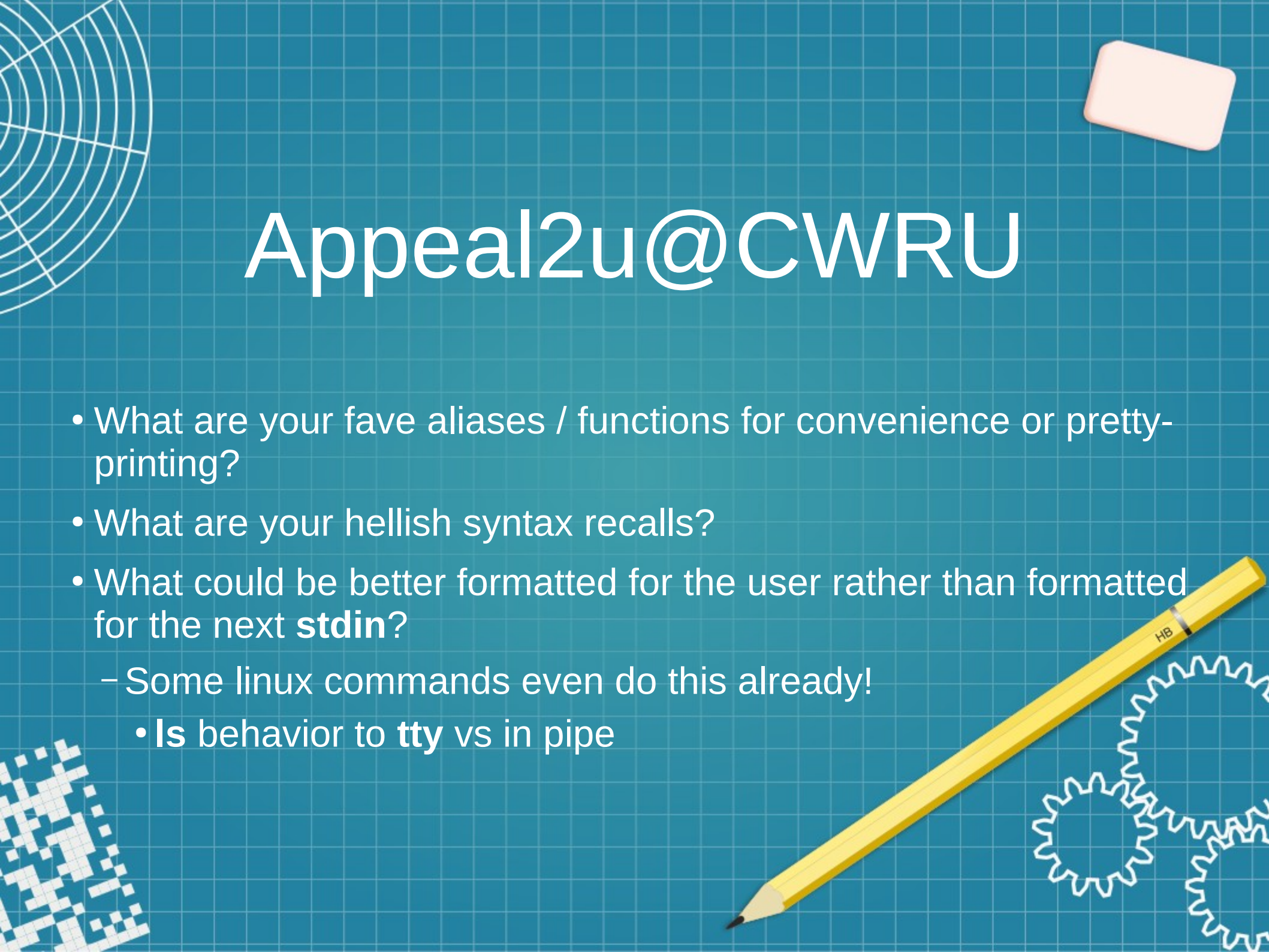
- Syntax recall and tutor for beginners
- Easier user experience at cli
 - Flip in **!cw**, flip out **ctrl-z**
 - For simple commands, not full shell
 - More about syntactic sugar than scripting
 - OS CLI used to be about THIS

An idea to be improved by EvanH



Ideas to Improve

- Prototype as CWRUsh for now
 - One big **awk** with **ifs** (not even cases)
 - Logic time not a problem!
 - Interpreter's syntax check mebbe
 - 42 **ifs** in 260 lines, 8976 bytes, 21 commands
- Distribute as **~/bin** or similar, big **.bashrc** function list?
 - Then would be fully compositional!
- Ask chat to compile to **c**
 - So no one complains ha ha ha
 - So revision control is ours ha ha ha



Appeal2u@CWRU

- What are your fave aliases / functions for convenience or pretty-printing?
- What are your hellish syntax recalls?
- What could be better formatted for the user rather than formatted for the next **stdin**?
 - Some linux commands even do this already!
 - Is behavior to **tty** vs in pipe



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