

CSE306 Software Quality in Practice

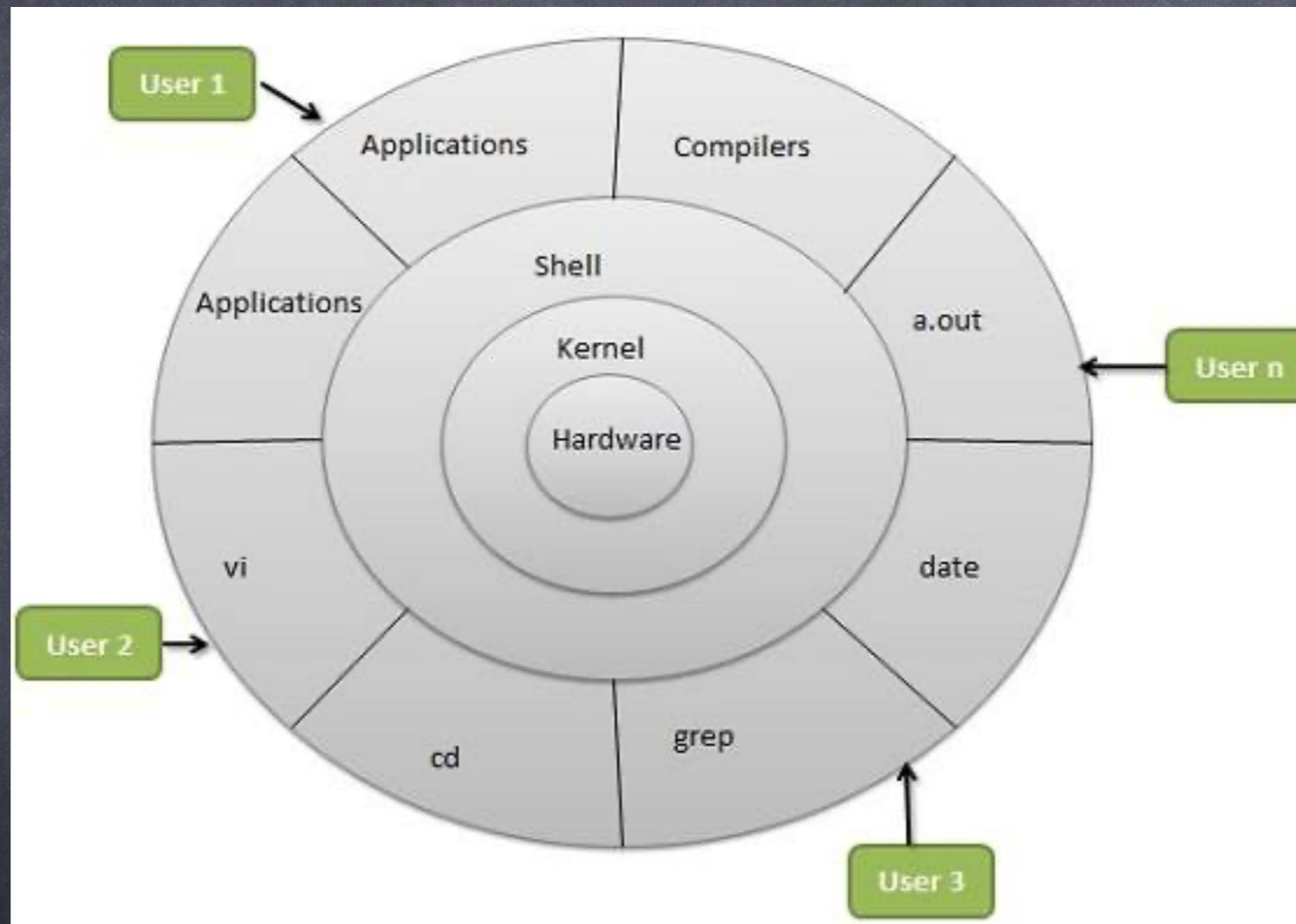
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the shell

What is the shell?

the shell

A shell is a command interpreter:
a user's command line interface (CLI) to the operating system kernel.



http://www.tutorialspoint.com/operating_system/os_linux.htm

the shell

A shell is a command interpreter:
a user's command line interface (CLI) to the
operating system kernel.

Unix/Linux provide many shells:

sh

csk

tcsh

bash

zsh

etc.

bash

We will explore bash:

Basic commands.

Bash scripting.

Good reference for bash:

bash manual page

www.tldp.org/HOWTO/Bash-Prog-Intro-HOWTO.html

www.tldp.org/LDP/Bash-Beginners-Guide/html/Bash-Beginners-Guide.html

bash

What basic commands do you know?

bash

What basic commands do you know?

ls

mv

touch

cat

mkdir

cd

echo

This is what the
class came up
with

Went on to do a demo of
several bash commands
(see recording)

Commands we discussed & demoed in lecture

'echo \$0' tells us our current shell
'bash' switches to bash shell for this session

pwd

cd

ls

mv

rm

cp

cat

pushd

popd

dirs

man

history

!#

tab completion

wildcards (? and *)

up-arrow down-arrow moving through history

redirection > (overwrite) >> (append) < (input redirection)

| pipe (showed sort, uniq, wc)

diff

Further reading

- You might find the responses in this post interesting to read:

[https://unix.stackexchange.com/
questions/11454/what-is-the-
difference-between-a-builtin-
command-and-one-that-is-not](https://unix.stackexchange.com/questions/11454/what-is-the-difference-between-a-builtin-command-and-one-that-is-not)