Lecture 7

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| --- | --- |
| stty | hhuang66@matrix:~/DPS918/Lecture7> stty  speed 38400 baud; line = 0;  -brkint -imaxbel |
| stty -a | hhuang66@matrix:~/DPS918/Lecture7> stty -a  speed 38400 baud; rows 51; columns 81; line = 0;  intr = ^C; quit = ^\; erase = ^?; kill = ^U; eof = ^D; eol = <undef>;  eol2 = <undef>; swtch = <undef>; start = ^Q; stop = ^S; susp = ^Z; rprnt = ^R;  werase = ^W; lnext = ^V; flush = ^O; min = 1; time = 0;  -parenb -parodd cs8 -hupcl -cstopb cread -clocal -crtscts  -ignbrk -brkint -ignpar -parmrk -inpck -istrip -inlcr -igncr icrnl ixon -ixoff  -iuclc -ixany -imaxbel -iutf8  opost -olcuc -ocrnl onlcr -onocr -onlret -ofill -ofdel nl0 cr0 tab0 bs0 vt0 ff0  isig icanon iexten echo echoe echok -echonl -noflsh -xcase -tostop -echoprt  echoctl echoke |
| stty -g | hhuang66@matrix:~/DPS918/Lecture7> stty -g  500:5:bf:8a3b:3:1c:7f:15:4:0:1:0:11:13:1a:0:12:f:17:16:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0 |
| stty -echo | / |
| stty -icanon min **1** time **10** |  |
| stty -icrnl |  |
| stty echo icanon icrnl |  |
| stty sane |  |
| control-j stty sane control-j |  |
| man termios |  |
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| hhuang66@matrix:~/DPS918/Lecture7> vi 7.1  echo -n "Enter password: "  stty -echo  read password  stty echo  echo -e "\nYou entered '$password'" | hhuang66@matrix:~/DPS918/Lecture7> chmod 777 7.1  hhuang66@matrix:~/DPS918/Lecture7> 7.1  Enter password:  You entered '123' |
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| hhuang66@matrix:~/DPS918/Lecture7> vi 7.2  echo -n "Enter password: "  stty -echo  read  stty echo  echo -e "\nYou entered '$REPLY'" | hhuang66@matrix:~/DPS918/Lecture7> 7.2  Enter password:  You entered '123' |
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| hhuang66@matrix:~/DPS918/Lecture7> vi 7.3  read -s -p "Enter password: "  echo -e "\nYou entered '$REPLY'" | hhuang66@matrix:~/DPS918/Lecture7> 7.3  Enter password:  You entered '123' |
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| hhuang66@matrix:~/DPS918/Lecture7> vi 7.4  stty -icanon min 0 time 0  key=  while [ "$key" != "q" ]  do  echo -n "Hit any key: "  key=  while [ "$key" = "" ]  do  read key  done  echo -e "\nYou hit the \"$key\" key"  done  stty icanon | hhuang66@matrix:~/DPS918/Lecture7> 7.4  Hit any key: k  You hit the "k" key  Hit any key: k  You hit the "k" key  Hit any key: j  You hit the "j" key  Hit any key: j  You hit the "j" key  Hit any key: q  You hit the "q" key  hhuang66@matrix:~/DPS918/Lecture7> |
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| hhuang66@matrix:~/DPS918/Lecture7> vi 7.5  oldsettings=$(stty -g)  stty -icanon min 1 time 0  key=  while [ "$key" != "q" ]  do  echo -n "Hit any key: "  key=$(dd bs=1 count=1 2> /dev/null)  echo -e "\nYou hit the \"$key\" key"  done  stty $oldsettings | hhuang66@matrix:~/DPS918/Lecture7> 7.5  Hit any key: ^[[A  You hit the " key  Hit any key:  You hit the "[" key  Hit any key:  You hit the "A" key  Hit any key: ^[[B  You hit the " key  Hit any key:  You hit the "[" key  Hit any key:  You hit the "B" key  Hit any key: ^[[B |
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| hhuang66@matrix:~/DPS918/Lecture7> vi 7.6  key=  while [ "$key" != "q" ]  do  echo -n "Hit any key: "  key=  read -n 1 -r key  echo -e "\nYou hit the \"$key\" key"  done | hhuang66@matrix:~/DPS918/Lecture7> 7.6  Hit any key: k  You hit the "k" key  Hit any key: l  You hit the "l" key  Hit any key: q  You hit the "q" key  hhuang66@matrix:~/DPS918/Lecture7> |
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| hhuang66@matrix:~/DPS918/Lecture7> vi 7.7  pause () {  oldsettings=$(stty -g)  stty -echo -icanon min 1 time 0  echo -n "Press any key to continue..."  key=$(dd bs=5 count=1 2> /dev/null)  echo  stty $oldsettings  }  pause | hhuang66@matrix:~/DPS918/Lecture7> 7.7  Press any key to continue...  hhuang66@matrix:~/DPS918/Lecture7> |
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| hhuang66@matrix:~/DPS918/Lecture7> vi 7.8  confirm() {  stty -echo -icanon min 1 time 0  while echo -n "Please confirm (Y/N): ";  reply=$(dd bs=5 count=1 2> /dev/null)  do  echo  [[ $reply = [Yy] ]] && { stty echo icanon; return 0; }  [[ $reply = [Nn] ]] && { stty echo icanon; return 1; }  done  }  if confirm  then  echo "Okay, ..."  else  echo "Operation cancelled"  fi | hhuang66@matrix:~/DPS918/Lecture7> 7.8  Please confirm (Y/N):  Okay, ...  hhuang66@matrix:~/DPS918/Lecture7>  hhuang66@matrix:~/DPS918/Lecture7> 7.8  Please confirm (Y/N):  Operation cancelled |
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| hhuang66@matrix:~/DPS918/Lecture7> cat 7.9  while true  do  read -r -p "Enter tput arguments: "  tput $REPLY  done  hhuang66 | hhuang66@matrix:~/DPS918/Lecture7> 7.9  Enter tput arguments: smul  Enter tput arguments: |
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| hhuang66@matrix:~/DPS918/Lecture7> vi 7.10  string=  while [ "$string" != 'q' ]  do  clear  if [ "$string" != "" ]  then tput cup 20 10  tput smso  echo -n "You entered \"$string\""  tput rmso  fi  tput cup 10 10  echo -n "Enter something: "  read string  done  clear |  |
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| hhuang66@matrix:~/DPS918/Lecture7> vi 7.11  bold=$(tput smso)  boldoff=$(tput rmso)  ul=$(tput smul)  uloff=$(tput rmul)  echo "${bold}This${boldoff} should be highlighted and ${ul}this${uloff} should be underlined." |  |
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| hhuang66@matrix:~/DPS918/Lecture7> vi 7.12  oldsettings=$(stty -g)  stty -icanon min 1 time 0 -icrnl -echo  key=  tput smkx # set "keypad send mode", needed for cursor keys  while [ "$key" != "q" ]  do  echo -n "Hit any key: "  key=$(dd bs=3 count=1 2> /dev/null)  if [ "$key" = $(tput cr) ]  then key="Enter"  elif [ "$key" = $(tput kcuu1) ]  then key="Up"  elif [ "$key" = $(tput kcud1) ]  then key="Down"  elif [ "$key" = $(tput kcub1) ]  then key="Left"  elif [ "$key" = $(tput kcuf1) ]  then key="Right"  fi  echo -e "\nYou hit the \"$key\" key"  done  stty $oldsettings | hhuang66@matrix:~/DPS918/Lecture7> 7.12  Hit any key:  You hit the "Up" key  Hit any key:  You hit the "Up" key  Hit any key:  You hit the "Down" key  Hit any key:  You hit the "Down" key  Hit any key:  You hit the "Down" key  Hit any key:  You hit the "Left" key  Hit any key:  You hit the "Right" key  Hit any key:  You hit the "Left" key  Hit any key:  You hit the "Right" key  Hit any key: |
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| hhuang66@matrix:~/DPS918/Lecture7> vi 7.13  echo -n "Enter the name of an animal: "  read animal  echo "Here are some interesting facts about ${animal}s:"  case $animal in  lion) echo "Baby lions are cute"  echo "Lions are generally scaredy-cats"  ;;  tiger) echo "Tigers have stripes"  echo "Tigers are native to Detroit"  ;;  bear) echo "Oh my!!!"  echo "Bears are big and hungry and generally not sociable"  ;;  \*) [[ $animal =~ ^[aeiou] ]] && n=n || n=  echo "I don't know what a$n $animal is, but I'm sure it's awesome!"  ;;  esac | hhuang66@matrix:~> 7.13  Enter the name of an animal: lion  Here are some interesting facts about lions:  Baby lions are cute  Lions are generally scaredy-cats |
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| hhuang66@matrix:~/DPS918/Lecture7> vi 7.14  for file  do  if [ ! -e "$file" ]  then  echo "$file does not exist"  else  case $(ls -ld "$file" | cut -c1) in  -) echo "$file is an ordinary file" ;;  d) echo "$file is a directory" ;;  l) echo "$file is a symbolic link" ;;  [bc]) echo "$file is a device driver" ;;  p) echo "$file is a pipe" ;;  s) echo "$file is a socket" ;;  esac  fi  done | hhuang66@matrix:~/DPS918/Lecture7> 7.14 cars  cars is an ordinary file  hhuang66@matrix:~/DPS918/Lecture7> 7.14 7.3  7.3 is an ordinary file |
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| hhuang66@matrix:~/DPS918/Lecture7> vi 7.15  select animal in lion tiger bear  do  echo "You selected $animal"  break  done | hhuang66@matrix:~/DPS918/Lecture7> 7.15  1) lion  2) tiger  3) bear  #? lion  You selected |
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| hhuang66@matrix:~/DPS918/Lecture7> vi 7.16  PS3="Please select a file: "  select file in \*  do  ls -ld $file  break  done | hhuang66@matrix:~/DPS918/Lecture7> 7.16  1) 7.1 4) 7.12 7) 7.15 10) 7.3 13) 7.6 16) 7.9  2) 7.10 5) 7.13 8) 7.16 11) 7.4 14) 7.7 17) cars  3) 7.11 6) 7.14 9) 7.2 12) 7.5 15) 7.8  Please select a file: 7.1  drwx------ 2 hhuang66 users 4096 Jun 11 23:34 . |
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| hhuang66@matrix:~/DPS918/Lecture7> vi 7.17  case $# in  0) ;;  1) if [ -d "$1" ]  then  cd "$1"  else  echo "$1 is not a valid directory name" >&2  exit 1  fi ;;  \*) echo "Syntax: $(basename $0) [ dir-name ]" >&2  exit 2 ;;  esac  PS3="Please choose a file: "  quit=  while [ "$quit" != q ]  do  clear  echo -e "Directory $PWD\n"  select file in .\* \*  do  if [ -d "$file" ]  then  cd "$file"  else  ls -ld "$file"  read -p "Hit enter to continue ('q' to quit): " quit  fi  break  done  done | Directory /home/hhuang66/DPS918/Lecture7  1) . 4) 7.10 7) 7.13 10) 7.16 13) 7.3 16) 7.6 19) 7.9  2) .. 5) 7.11 8) 7.14 11) 7.17 14) 7.4 17) 7.7 20) cars  3) 7.1 6) 7.12 9) 7.15 12) 7.2 15) 7.5 18) 7.8  Please choose a file: 7.8  ls: cannot access : No such file or directory  Hit enter to continue ('q' to quit): q |
|  |  |
| hhuang66@matrix:~/DPS918/Lecture7> vi 7.18  if [ $# = 1 ]  then if [ -d "$1" ]  then  cd "$1"  else  echo "$1 is not a valid directory name" >&2  exit 1  fi  elif [ $# -gt 1 ]  then  echo "Syntax: $(basename $0) [ dir-name ]" >&2  exit 2  fi  quit=  while [ "$quit" != q ]  do  clear  echo -e "Directory $PWD\n"  ls -a | awk '{print NR ") " $0}'  read -p "Please choose a file: " filenum  file=$(ls -a | sed -n "$filenum p")  if [ -d "$file" ]  then  cd "$file"  else  ls -ld "$file"  read -p "Hit enter to continue ('q' to quit): " quit  fi  done | Directory /home/hhuang66/DPS918/Lecture7  1) .  2) ..  3) 7.1  4) 7.10  5) 7.11  6) 7.12  7) 7.13  8) 7.14  9) 7.15  10) 7.16  11) 7.17  12) 7.18  13) 7.2  14) 7.3  15) 7.4  16) 7.5  17) 7.6  18) 7.7  19) 7.8  20) 7.9  21) cars  Please choose a file: 20  -rwxrwxrwx 1 hhuang66 users 73 Jun 11 21:21 7.9  Hit enter to continue ('q' to quit): |
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