BICYCLE WORLD

Objective

+ × bash

LEARN THE COMMAND LINE

Bicycle World

Welcome to Bicycle World, the premier text-based bicycle shop! This shop is only accessible to programmers like you, who are familiar with the command line.

In this project, you'll use the commands you learned to navigate and edit the filesystem of this special shop.

The starting filesystem is shown below. (Bicycle World recently changed owners, who named the main directory `bicycle-world-ii` .)

```
bicycle-world-ii
```

```
$ cd mountain/downhill
$ pwd
/home/ccuser/workspace/bicycle-world-ii/mountain/downhill
$ touch dirt.txt
$ touch mud.txt
$ ls
dirt.txt   heavyweight   lightweight   mud.txt   safety
$ mkdir safety
mkdir: cannot create directory 'safety': File exists
$ cd ../..
$ ls
bmx   brands.txt   freight   mountain   racing
$  mkdir bmx
mkdir: cannot create directory 'bmx': File exists
$ touch bmx/tricks.txt
$ ls
bmx   brands.txt   freight   mountain   racing
$
```

ARTUSI

◎ Objective   + ✕ bash

LEARN THE COMMAND LINE

Artusi

Let's use commands we just learned to manipulate the files and directories of Artusi, an arts supply Store.

If you get stuck during this project or would like to see an experienced developer work through it, click "**Get Unstuck**" to see a **project walkthrough video**.

☑ Tasks   26/26 Comple

Mark the tasks as complete by checking them off

```
$ pwd
/home/ccuser/workspace/artusi/sculpting/clay/ceramic
$ ls -a
.   ..   airdry.txt   stoneware.txt
$ rm earthenware.txt
rm: cannot remove 'earthenware.txt': No such file or directory
$ rm earthenware.txt
rm: cannot remove 'earthenware.txt': No such file or directory
$ ls
airdry.txt   stoneware.txt
$ cd ..
$ pwd
/home/ccuser/workspace/artusi/sculpting/clay
$ rm -rf dough
$ cd ../..
$ pwd
/home/ccuser/workspace/artusi
$ ▮
```

Tasks   26/26 Comple

26. Change directories two levels up back to the **artusi/** directory. Print the working directory.

Hint

To change directories two levels up, we can use `cd` with two `..` s separated by a `/` :

```
cd ../..
```

Let's confirm the current directory using

```
pwd
```

+   × bash

```
$ pwd
/home/ccuser/workspace/artusi/sculpting/clay/ceramic
$ ls -a
.  ..  airdry.txt  stoneware.txt
$ rm earthenware.txt
rm: cannot remove 'earthenware.txt': No such file or directory
$ rm earthenware.txt
rm: cannot remove 'earthenware.txt': No such file or directory
$ ls
airdry.txt  stoneware.txt
$ cd ..
$ pwd
/home/ccuser/workspace/artusi/sculpting/clay
$ rm -rf dough
$ cd ../..
$ pwd
/home/ccuser/workspace/artusi
$ 
```

Back   Next

☑ **Tasks**   26/26 Comple

☑ **26.** Change directories two levels up back to
the **artusi/** directory. Print the working
directory.

➕   ✕ **bash**

```
drwxr-xr-x 4 ccuser ccuser  34 Mar  5  2016 .
$ /home/ccuser/workspace/artusi/painting
bash: /home/ccuser/workspace/artusi/painting: Is a directory
$ cd brushes
$ ls -alt
total 16
drwxr-xr-x 4 ccuser ccuser 121 Jul 13 09:02 .
drwxr-xr-x 2 ccuser ccuser   6 Jul 13 09:02 ceramic.txt
drwxr-xr-x 2 ccuser ccuser   6 Jul 13 09:01 ceramic
-rw-r--r-- 1 ccuser ccuser   0 Jul 13 09:00 airdry.txt
-rw-r--r-- 1 ccuser ccuser  59 Jul 13 08:47 fan.txt
-rw-r--r-- 1 ccuser ccuser 133 Jul 13 08:47 flat.txt
-rw-r--r-- 1 ccuser ccuser 199 Jul 13 08:47 mop.txt
-rw-r--r-- 1 ccuser ccuser  75 Jul 13 08:47 round.txt
drwxr-xr-x 4 ccuser ccuser  34 Mar  5  2016 ..
$ cp f*.txt ../paint/
$ ls ../paint/
acryllic  fan.txt  flat.txt  watercolor
```

Tasks   26/26 Comple

☑ **26.** Change directories two levels up back to the **artusi/** directory. Print the working directory.

Hint

To change directories two levels up, we can use `cd` with two `..` s separated by a `/` :

```
cd ../..
```

Let's confirm the current directory using

```
pwd
```

`+`   `×` bash

```
Compressed charcoal ( also referred as charcoal sticks) is shaped into a block or form of a
stick. Intensity of the shade is determined by hardiness.

Source: Wiki$
$ cat ../pencils/color.txt

Compressed charcoal ( also referred as charcoal sticks) is shaped into a block or form of a
stick. Intensity of the shade is determined by hardiness.

Source: Wiki$
$ /home/ccuser/workspace/artusi/drawing/charcoal/
bash: /home/ccuser/workspace/artusi/drawing/charcoal/: Is a directory
$ cd ../../painting
$ pwd
/home/ccuser/workspace/artusi/painting
$ ls -alt
total 0
drwxr-xr-x 5 ccuser ccuser  69 Jul 13 14:28 ..
```

ATHLETICA

⊙ Objective

\+   ✕ bash

LEARN THE COMMAND LINE

Athletica

In this project, you'll use the commands you just learned to redirect files in Athletica, a sporting events directory.

If you get stuck during this project or would like to see an experienced developer work through it, click "**Get Unstuck**" to see a **project walkthrough video**.

☑ **Tasks**   15/15 Complete

Mark the tasks as complete by checking them off

```
Jordan vs Morocco
Morocco: win

Malaysia vs Singapore
Singapore: win

India vs China
India: win

Pakistan vs Uzbekistan
Uzbekistan: win

Greece vs Turkey
Greece: win

France vs Spain
France: win$ ▮
```

ATTICA

☑ Tasks 18/18 Complete

+ × bash

Stuck? Get a hint ⌄

☑ 7. Open the bash profile, and create two aliases. The first alias should be `p` for the `pwd` command and `ll` for the `ls -la` command.

Save the file, exit nano, and clear the terminal.

Stuck? Get a hint ⌄

☑ 8. Use the `source` command to make the aliases available in the current session.

Hint ⌃

```
Hello
$ p
/home/ccuser/workspace/clothing
$ ll
total 28
drwxr-xr-x 2 ccuser ccuser  290 Jul 14 07:04 .
drwxr-xr-x 1 ccuser ccuser   22 Jul 14 06:36 ..
-rw-r--r-- 1 ccuser ccuser   45 Jul 14 07:04 .bash_profile
-rw-r--r-- 1 ccuser ccuser   81 Jul 14 06:46 .bash.profile
-rw-r--r-- 1 ccuser ccuser   45 Jul 14 07:04 .bash_profile.save
-rw-r--r-- 1 ccuser ccuser 1024 Jul 14 06:48 ..bash.profile.swp
-rw-r--r-- 1 ccuser ccuser    0 Jul 13 16:55 dresses.txt
-rw-r--r-- 1 ccuser ccuser   70 Jul 14 06:08 filename.txt
-rw-r--r-- 1 ccuser ccuser   71 Jul 13 17:07 filename.txt yes
-rw-r--r-- 1 ccuser ccuser   17 Jul 14 07:01 hello.txt
-rw-r--r-- 1 ccuser ccuser    0 Jul 13 16:55 jackets.txt
-rw-r--r-- 1 ccuser ccuser    0 Jul 13 16:55 pants.txt
-rw-r--r-- 1 ccuser ccuser    0 Jul 13 16:55 scarves.txt
```

☑ **Tasks**   18/18 Complete   + × bash

☑ 9. Test out the aliases you created for the
       `pwd` and `ls -la` command.

The alias we created for `pwd` is:

```
p
```

The alias we created for `ls -la` is:

```
ll
```

Type each of them after the command prompt.

☑ 10. Open the bash profile and create and

```
Hello
$ echo $VARIABLE
Value
$ nano .bash_profile
$ nano .bash_profile
$ source .bash_profile
Hello
>> echo $PS1
>>
>> p
/home/ccuser/workspace/clothing
>> ll
total 28
drwxr-xr-x 2 ccuser ccuser  290 Jul 14 07:11 .
drwxr-xr-x 1 ccuser ccuser   22 Jul 14 06:36 ..
-rw-r--r-- 1 ccuser ccuser   86 Jul 14 07:11 .bash_profile
-rw-r--r-- 1 ccuser ccuser   81 Jul 14 06:46 .bash.profile
-rw-r--r-- 1 ccuser ccuser   45 Jul 14 07:04 .bash_profile.save
```

☑ Tasks   18/18 Complete

+   × bash

Hint   ︿

To `echo` an environment variable, use `echo` and
the variable name (with a `$` in front of it).

```
echo $VARIABLE
```

☑ **13.** Open the bash profile and create and
export the PS1 environment variable,
setting it equal to `">> "`.

Save the file, exit nano, and clear the
terminal.

Hint   ︿

```
-rw-r--r-- 1 ccuser ccuser    0 Jul 13 16:55 socks.txt
-rw-r--r-- 1 ccuser ccuser    0 Jul 13 16:55 sweaters.txt
>> echo $HOME
/home/ccuser
>> echo $PATH
/home/ccuser/.bin:/home/ccuser/node_modules/.bin:/home/ccuser/.gem/ruby/2.3.0/bin:/home/ccus
er/.composer/vendor/bin:/home/ccuser/.bin:/home/ccuser/node_modules/.bin:/home/ccuser/.gem/r
uby/2.3.0/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
>> env
VARIABLE=Value
HOSTNAME=9b62901d8bd4
GEM_HOME=/home/ccuser/.gem/ruby/2.3.0
TERM=xterm
EXPIRES_AT=1689320168
NLTK_DATA=/home/ccuser/.nltk_data
PATH=/home/ccuser/.bin:/home/ccuser/node_modules/.bin:/home/ccuser/.gem/ruby/2.3.0/bin:/home
/ccuser/.composer/vendor/bin:/home/ccuser/.bin:/home/ccuser/node_modules/.bin:/home/ccuser/.
gem/ruby/2.3.0/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
```

Tasks

18/18 Complete

To `echo` an environment variable, use `echo` and the variable name (with a `$` in front of it).

```
echo $VARIABLE
```

17. Echo the `PATH` variable. ✓

Stuck? Get a hint ∨

18. Return a list of environment variables. ✓

Stuck? Get a hint ∨

```
+  × bash

PATH=/home/ccuser/.bin:/home/ccuser/node_modules/.bin:/home/ccuser/.gem/ruby/2.3.0/bin:/home
/ccuser/.composer/vendor/bin:/home/ccuser/.bin:/home/ccuser/node_modules/.bin:/home/ccuser/.
gem/ruby/2.3.0/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin
CODEX_RUNNER_PATH=/var/codecademy/codex/runners
PWD=/home/ccuser/workspace/clothing
MPLBACKEND=agg
LANG=en_US.UTF-8
SESSION_ID=2e23ed75-4dae-403b-a082-94726386ba40
TZ=Etc/UTC
PS1=>>
SHLVL=1
HOME=/home/ccuser
LOG_LEVEL=2
WORKSPACE_SERVICE_HOST=https://workspace.production-eks.codecademy.com
EIN_IMAGE=default
PYTHONPATH=/var/codecademy/runner_contexts/python:
_=/usr/bin/env
>> 
```

18/18 Complete

Back   Next

BASH SCRIPTING

☑ **Tasks**   13/13 Complete

Hint   ∧

Use `cd` to change directories:

```
cd build/
# We'll add more code here later
cd ..
```

☑ **12.** Add code to notify the user what files
are currently in the build directory.

Be sure to reference the version in your
message.

Hint   ∧

× **script.sh**   ↗

```bash
1   #!/bin/bash
2   echo "Build Script"
3   firstline=$(head -n 1 source/changelog.md)
4   read -a splitfirstline <<< $firstline
5   version=${splitfirstline[1]}
6   echo "You are building version" $version
7   echo 'Do you want to continue? (enter "1" for
    yes, "0" for no)'
8   read versioncontinue
9   if [ $versioncontinue -eq 1 ]
10  then
11    echo "OK"
12  else
13    echo "Please come back when you are ready"
14  fi
15  for filename in source/*
16  do
```

Save   📋   ↻

+   × **bash**

```
$ ./script.sh
Build Script

$ ./script.sh
Build Script
You are building version 11.2.3
$ ./script.sh
Build Script
You are building version 11.2.3
Do you want to continue? (enter "1" for yes,
"0" for no)
1
$ ./script.sh
Build Script
You are building version 11.2.3
Do you want to continue? (enter "1" for yes,
"0" for no)
1
$ ./script.sh
Build Script
You are building version 11.2.3
Do you want to continue? (enter "1" for yes,
"0" for no)
1
```

☑ Tasks

13/13 Complete

Hint

Use `cd` to change directories:

```
cd build/
# We'll add more code here later
cd ..
```

☑ **12.** Add code to notify the user what files are currently in the build directory.

Be sure to reference the version in your message.

Hint

× script.sh

```
16   do
17      echo $filename
18   done
19   if [ "$filename" == "source/secretinfo.md" ]
20   then
21      echo "Not copying" $filename
22   else
23      echo "Copying" $filename
24   fi
25   ls build/
26   cd build/
27   # We'll add more code here later
28   cd ..
29   echo "Build version $version contains:"
30   ls
31
32
```

Save

× bash

```
You are building version 11.2.3
Do you want to continue? (enter "1" for yes,
"0" for no)
1
OK
source/bar.js
source/buzz.css
source/changelog.md
source/foo1.html
source/foo2.html
source/foo3.html
source/secretinfo.md
$ ./script.sh
Build Script
You are building version 11.2.3
Do you want to continue? (enter "1" for yes,
"0" for no)
1
```

Back   Next