

Wed Jul 9, 2014

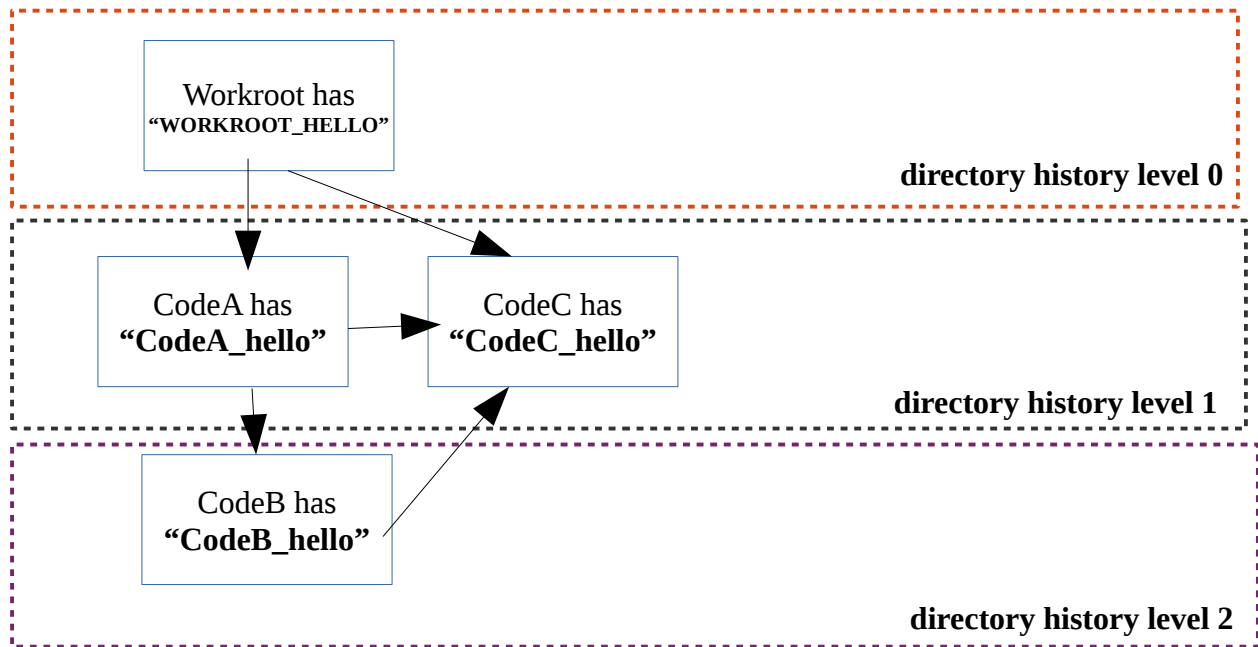
Objective:

[1] passing variables from one makefile to the another, and observing the outcome

idea:

each makefile will create a variable and pass it down to the other makefile(s).

architecture:



analyzed output:

-----  
makefile WORKROOT  
-----

WORKROOT\_hello: Hello from WORKROOT makefile

codeA\_hello:

codeB\_hello:

codeC\_hello:

make[1]: Entering directory

`/home/alshamlan/Dropbox/Skillset\_for\_dropbox\_May31\_2014/1\_makefile/code\_example/propagating\_variables\_in\_nested\_makefiles/codeA'

-----  
makefile codeA  
-----

WORKROOT\_hello: Hello from WORKROOT makefile

codeA\_hello: Hello from codeA makefile

codeB\_hello:

codeC\_hello:

```
make[2]: Entering directory
`/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles/codeA/codeB'
```

```
-----
makefile codeB
```

```
-----
WORKROOT_hello: Hello from WORKROOT makefile
```

```
codeA_hello: Hello from codeA makefile
```

```
codeB_hello: Hello from codeB makefile
```

```
codeC_hello:
```

```
make[3]: Entering directory
```

```
`/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles/codeC'
```

```
-----
makefile codeC
```

```
-----
WORKROOT_hello: Hello from WORKROOT makefile
```

```
codeA_hello: Hello from codeA makefile
```

```
codeB_hello: Hello from codeB makefile
```

```
codeC_hello: Hello from codeC makefile
```

```
make[3]: Leaving directory
```

```
`/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles/codeC'
```

```
make[2]: Leaving directory
```

```
`/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles/codeA/codeB'
```

```
make[2]: Entering directory
```

```
`/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles/codeC'
```

```
-----
makefile codeC
```

```
-----
WORKROOT_hello: Hello from WORKROOT makefile
```

```
codeA_hello: Hello from codeA makefile
```

```
codeB_hello:
```

```
codeC_hello: Hello from codeC makefile
```

```
make[2]: Leaving directory
```

```
`/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles/codeC'
```

```
make[1]: Leaving directory
```

```
`/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles/codeA'
```

```
make[1]: Entering directory
```

```
`/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles/codeC'
```

```
-----
makefile codeC
-----
```

```
WORKROOT_hello: Hello from WORKROOT makefile
codeA_hello:
codeB_hello:
codeC_hello: Hello from codeC makefile
make[1]: Leaving directory
`/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles/codeC'
```

raw output:

```
alshamlan@alshamlan-OptiPlex-
980:~/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagating_variables
_in_nested_makefiles$ make
echo "-----"
-----
echo makefile WORKROOT
makefile WORKROOT
echo "-----"
-----
echo WORKROOT:
/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles
WORKROOT:
/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles
echo WORKROOT_hello: "Hello from WORKROOT makefile"
WORKROOT_hello: Hello from WORKROOT makefile
echo codeA_hello:
codeA_hello:
echo codeB_hello:
codeB_hello:
echo codeC_hello:
codeC_hello:
# invocaing anther make
make -C
/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles/codeA
make[1]: Entering directory
`/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles/codeA'
echo "-----"
-----
echo makefile codeA
makefile codeA
echo "-----"
-----
echo WORKROOT:
/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
```

```

g_variables_in_nested_makefiles
WORKROOT:
/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles
echo WORKROOT_hello: "Hello from WORKROOT makefile"
WORKROOT_hello: Hello from WORKROOT makefile
echo codeA_hello: "Hello from codeA makefile"
codeA_hello: Hello from codeA makefile
echo codeB_hello:
codeB_hello:
echo codeC_hello:
codeC_hello:
# openning another make
make -C
/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles/codeA/codeB
make[2]: Entering directory
`/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles/codeA/codeB'
echo "-----"
-----
echo makefile codeB
makefile codeB
echo "-----"
-----
echo WORKROOT:
/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles
WORKROOT:
/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles
echo WORKROOT_hello: "Hello from WORKROOT makefile"
WORKROOT_hello: Hello from WORKROOT makefile
echo codeA_hello: "Hello from codeA makefile"
codeA_hello: Hello from codeA makefile
echo codeB_hello: "Hello from codeB makefile"
codeB_hello: Hello from codeB makefile
echo codeC_hello:
codeC_hello:
# openning another make
make -C
/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles/codeC
make[3]: Entering directory
`/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles/codeC'
echo "-----"
-----

```

```

echo makefile codeC
makefile codeC
echo "-----"
-----
echo WORKROOT:
/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles
WORKROOT:
/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles
echo WORKROOT_hello: "Hello from WORKROOT makefile"
WORKROOT_hello: Hello from WORKROOT makefile
echo codeA_hello: "Hello from codeA makefile"
codeA_hello: Hello from codeA makefile
echo codeB_hello: "Hello from codeB makefile"
codeB_hello: Hello from codeB makefile
echo codeC_hello: "Hello from codeC makefile"
codeC_hello: Hello from codeC makefile
make[3]: Leaving directory
`/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles/codeC'
make[2]: Leaving directory
`/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles/codeA/codeB'
make -C
/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles/codeC
make[2]: Entering directory
`/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles/codeC'
echo "-----"
-----
echo makefile codeC
makefile codeC
echo "-----"
-----
echo WORKROOT:
/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles
WORKROOT:
/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagatin
g_variables_in_nested_makefiles
echo WORKROOT_hello: "Hello from WORKROOT makefile"
WORKROOT_hello: Hello from WORKROOT makefile
echo codeA_hello: "Hello from codeA makefile"
codeA_hello: Hello from codeA makefile
echo codeB_hello:
codeB_hello:

```

```
echo codeC_hello: "Hello from codeC makefile"
codeC_hello: Hello from codeC makefile
make[2]: Leaving directory
`/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagating_variables_in_nested_makefiles/codeC'
make[1]: Leaving directory
`/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagating_variables_in_nested_makefiles/codeA'
make -C
/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagating_variables_in_nested_makefiles/codeC
make[1]: Entering directory
`/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagating_variables_in_nested_makefiles/codeC'
echo "-----"
-----
echo makefile codeC
makefile codeC
echo "-----"
-----
echo WORKROOT:
/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagating_variables_in_nested_makefiles
WORKROOT:
/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagating_variables_in_nested_makefiles
echo WORKROOT_hello: "Hello from WORKROOT makefile"
WORKROOT_hello: Hello from WORKROOT makefile
echo codeA_hello:
codeA_hello:
echo codeB_hello:
codeB_hello:
echo codeC_hello: "Hello from codeC makefile"
codeC_hello: Hello from codeC makefile
make[1]: Leaving directory
`/home/alshamlan/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagating_variables_in_nested_makefiles/codeC'
alshamlan@alshamlan-OptiPlex-
980:~/Dropbox/Skillset_for_dropbox_May31_2014/1_makefile/code_example/propagating_variables_in_nested_makefiles$
```