

## Project 1 SCCS

### The getrelease script:

```
#!/bin/bash

SCCS="sccs -d $HOME/hw"
RELEASE="1.1"

$SCCS get -r1.2 makefile

$SCCS get -r$RELEASE helpers.c
$SCCS get -r$RELEASE getters.c
$SCCS get -r$RELEASE actions.c
$SCCS get -r$RELEASE addrBookUI.c

$SCCS get -r$RELEASE helpers.h
$SCCS get -r$RELEASE getters.h
$SCCS get -r$RELEASE actions.h
$SCCS get -r1.2 addrBookUI.h
```

### Contents of the project directory:

```
favrod@uhx01:~/hw/proj1b$ ls -p
bld/          README      runtests    source/
test_output   test_plan.pdf tests/
```

### Getting getrelease from SCCS:

```
favrod@uhx01:~/hw/proj1b$ sccs -d .. get getrelease
1.2
17 lines
No id keywords (cm7)
```

## Grabbing the files for the project from SCCS

```
favrod@uhx01:~/hw/proj1b$ getrelease
1.2
73 lines
No id keywords (cm7)
1.1
148 lines
No id keywords (cm7)
1.1
515 lines
No id keywords (cm7)
1.1
481 lines
No id keywords (cm7)
1.1
327 lines
No id keywords (cm7)
1.1
26 lines
No id keywords (cm7)
1.1
481 lines
No id keywords (cm7)
1.1
327 lines
No id keywords (cm7)
1.1
26 lines
No id keywords (cm7)
1.1
39 lines
No id keywords (cm7)
1.1
37 lines
No id keywords (cm7)
1.2
31 lines
No id keywords (cm7)
favrod@uhx01:~/hw/proj1b$ ls -p
actions.c      bld/          helpers.c      runtests      tests/
actions.h      getrelease    helpers.h      source/
addrBookUI.c  getters.c     makefile       test_output
addrBookUI.h  getters.h     README         test_plan.pdf
```

## Using the makefile to build the project

Also cleans up and puts away SCCS files not being edited (See makefile).

```
favrod@uhx01:~/hw/proj1b$ make
make addrBook
make[1]: Entering directory `/home04/f/favrod/hw/proj1b'
gcc -ansi -Wall -c helpers.c
if [ ! -f "record.h" ]; then \
    sccs -d /home/f/favrod/hw get record.h; \
fi;
1.1
34 lines
No id keywords (cm7)
gcc -ansi -Wall -c getters.c
gcc -ansi -Wall -c actions.c
gcc -ansi -Wall -c addrBookUI.c
gcc -ansi -Wall -o addrBook helpers.o getters.o actions.o addrBookUI.o
make[1]: Leaving directory `/home04/f/favrod/hw/proj1b'
make clean
make[1]: Entering directory `/home04/f/favrod/hw/proj1b'
if [ -f *.o ]; then \
    mv *.o bld/; \
fi;
sccs -d /home/f/favrod/hw clean
make[1]: Leaving directory `/home04/f/favrod/hw/proj1b'
```

## The project is built:

```
favrod@uhx01:~/hw/proj1b$ ls -p | sort
addrBook
bld/
README
runtests
source/
test_output
test_plan.pdf
tests/
```

## The makefile:

```
#!/bin/bash
CC=gcc -ansi -Wall
SCCS=sccs -d $(HOME)/hw

all :
    make addrBook
    make clean

addrBook : helpers.o getters.o actions.o addrBookUI.o
    $(CC) -o addrBook helpers.o getters.o actions.o addrBookUI.o

helpers.o : helpers.c helpers.h
    $(CC) -c helpers.c

getters.o : getters.c getters.h helpers.h record.h
    $(CC) -c getters.c

actions.o : actions.c actions.h helpers.h record.h
    $(CC) -c actions.c

addrBookUI.o : addrBookUI.c addrBookUI.h record.h
    $(CC) -c addrBookUI.c

clean :
    if [ -f *.o ]; then \
        mv *.o bld/; \
    fi;
    $(SCCS) clean

record.h :
    if [ ! -f "record.h" ]; then \
        $(SCCS) get record.h; \
    fi;

helpers.h :
    if [ ! -f "helpers.h" ]; then \
        $(SCCS) get helpers.h; \
    fi;

helpers.c :
    if [ ! -f "helpers.c" ]; then \
        $(SCCS) get helpers.c; \
    fi;

getters.h :
    if [ ! -f "getters.h" ]; then \
        $(SCCS) get getters.h; \
    fi;
```

```
getters.c :  
    if [ ! -f "getters.c" ]; then \  
        $(SCCS) get getters.c; \  
    fi;  
  
actions.h :  
    if [ ! -f "actions.h" ]; then \  
        $(SCCS) get actions.h; \  
    fi;  
  
actions.c :  
    if [ ! -f "actions.c" ]; then \  
        $(SCCS) get actions.c; \  
    fi;  
  
addrBookUI.h :  
    if [ ! -f "addrBookUI.h" ]; then \  
        $(SCCS) get addrBookUI.h; \  
    fi  
  
addrBookUI.c :  
    if [ ! -f "addrBookUI.c" ]; then \  
        $(SCCS) get addrBookUI.c; \  
    fi
```