

VE482 Lab3

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2. Working with source code

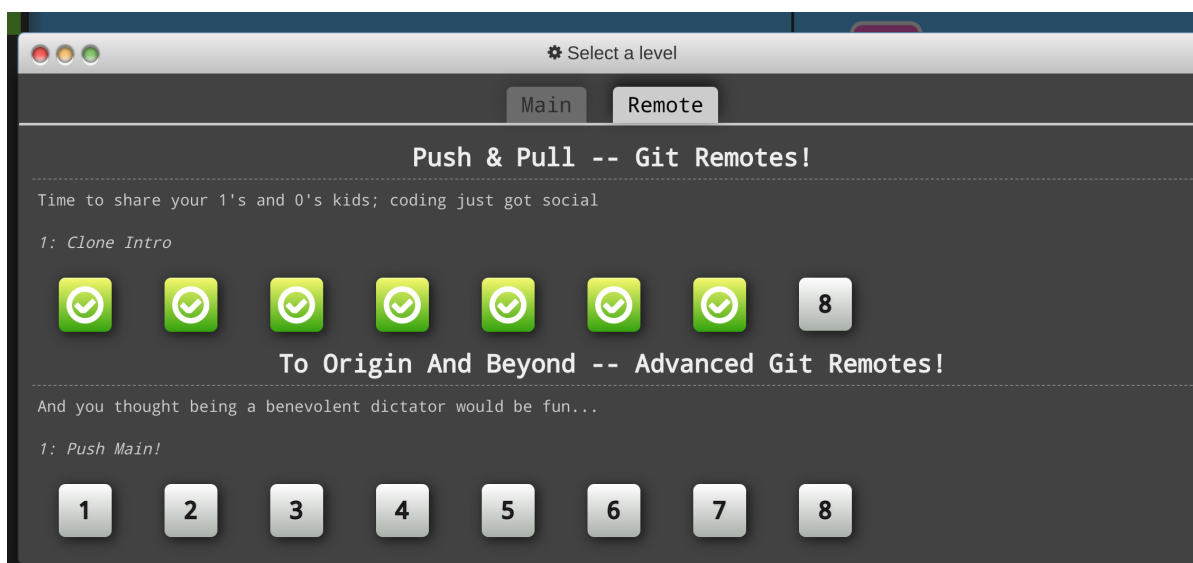
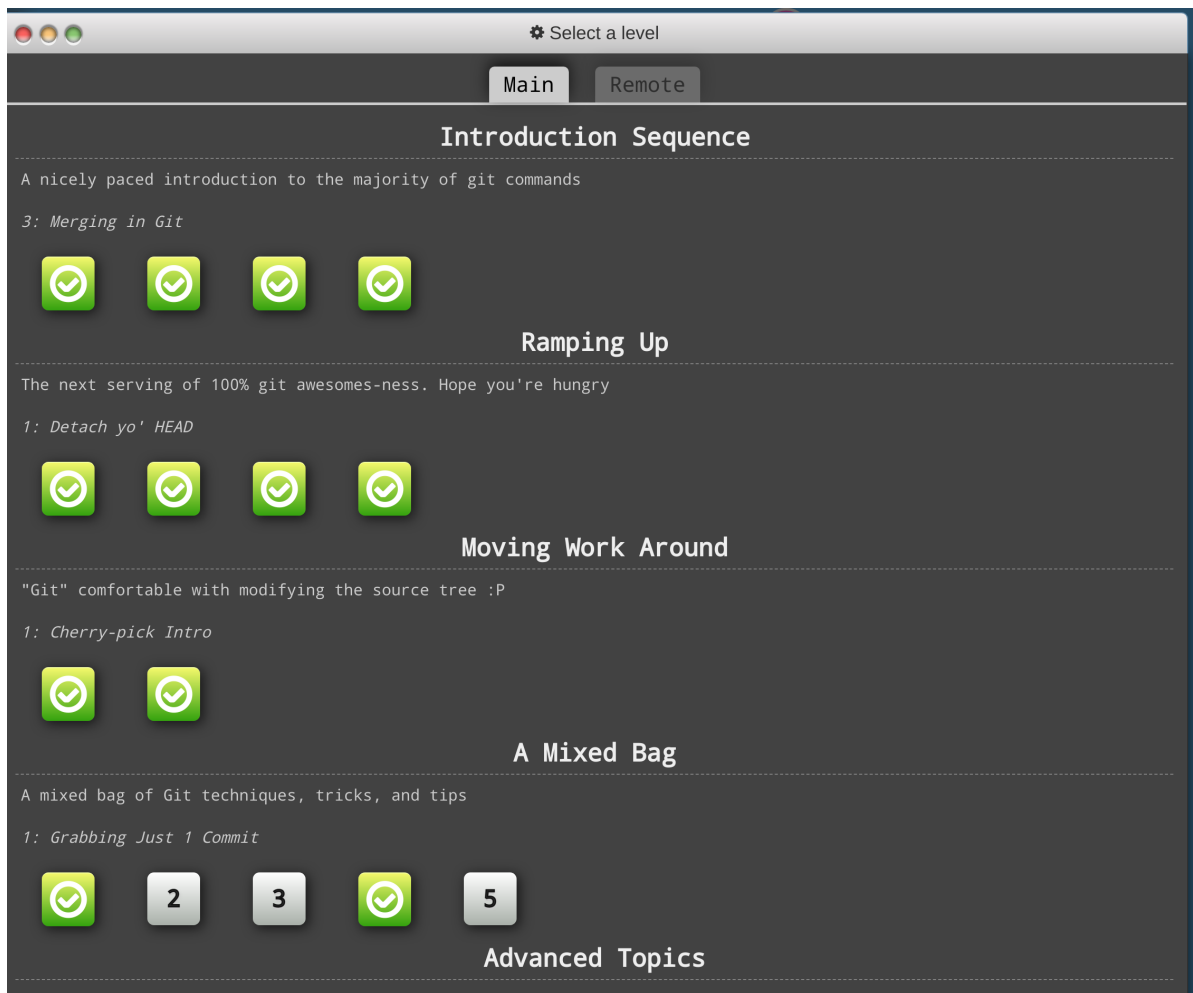
2.1 rsync

```
# installing rsync on Minix3
pkginstall rsync
man rsync
# create an copy of /usr/src into the directory /usr/src_orig
cp -r /usr/src /usr/src_orig
#Create an exact copy of the Minix 3 directory /usr/src into your Linux system
rsync -avz -e "ssh -p 2222" root@192.168.213.126:/usr/src_orig ~/exact_copy
```

2.2 diff , patch

```
man diff
man patch
#edit files
echo 111 > /usr/src/file
echo 222 > /usr/src_orig/file
# create a patch in Minix3
cd /usr/src
diff -rc /usr/src_orig /usr/src > patch
# retrieve the patch
rsync -avz -e "ssh -p 2222" root@192.168.213.126:/usr/src/patch ~/patch
# applying the patch
patch -p3 /usr/src/file < patch
# revert the patch
patch -RE -p3 < patch
```

2.4 Basic git



3. Scripting and regex

3.1 AQL and sed

```
curl "https://aqicn.org/?
city=Shanghai&widgetscript&size=large&id=52b39d71decf07.20261781" 2> /dev/null |
sed -rn 's/.*title=\\.\\.\\.*>([0-9]{1,3}).*hdrt.*10px.*>([-]?[0-9]{1,3})<.*AQ: \\1
Temp: \\2 °C/p'
```

3.2 IP and awk

```
ifconfig | awk -e '{for(i=1;i<=NF;i++){ if($i=="inet"){print $(i+1)} } }'
```