

Fifth Session

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Bash Scripting for Audio-Visual Preservation
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- Quoting and variable substitution
- Branching and looping
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"Variables"

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Quoting

```
tmp=test_best_test_best_test
echo tmp
echo $tmp
echo 'temp = $tmp'
echo "temp = $tmp"
echo 'temp = "$tmp"'
echo "temp = '$tmp'"
echo "temp = ${tmp}"
```

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Variable substitution (1)

```
echo "${tmp/test/TEST}"  
echo "${tmp/best/TEST}"  
echo "${tmp//test/TEST}"  
echo "${tmp//best/TEST}"  
echo "${tmp/#test/TEST}"  
echo "${tmp/%test/TEST}"  
echo "${tmp/#best/TEST}"  
echo "${tmp/%best/TEST}"
```

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Variable substitution (2)

```
echo "${tmp/es/}"  
echo "${tmp//es/}"  
  
echo "${tmp^^}"  
echo "${tmp,,}"  
echo "${tmp}" | awk '{print toupper($0)}'  
echo "${tmp}" | awk '{print tolower($0)}'
```

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Substitution and quoting

```
echo "${tmp:-sorry, isn't defined}"  
unset tmp  
echo "${tmp:-sorry, isn't defined}"  
echo "${tmp}"
```

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Flow control

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Flow control Bash statements

branching

- if
- case
- select

looping

- for
- while
- until

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if statement syntax

```
if condition ; then
    command
elif condition_n ; then
    command_n
else
    command
fi
```

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case statement syntax

```
case variable in
    value_n )
        commands_n
;;
esac
```

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while statement syntax

```
while condition ; do
    commands
done
```

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Redirections

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Simple redirection

`command > file`

`command >> file`

`command < file`

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Multiple redirection

`command > file 2>&1`

`command &> file`

`command | tee [options] file`

`command 2>&1 | tee [options] file`

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