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Shell Programming Constructs

Operators

```
Arithmetic: +, -, *, /, %
Relational: -eq, -ne, -lt, -gt, -le, -ge
Logical: -a, -o,!
```

if ... else

```
if [ condition ]
then
...
fi

if [ condition ]
then
...
else
...
fi

if [ condition ]
then
...
elif [ condition ]
then
...
elif [ condition ]
then
...
else
...
fi
```

case

```
case $var in
    1|5|jan)
    ;;
    2|feb)
    ;;
    *)
    ;;
esac
```

Loops

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```
Initialisation
while [ condition ]
do
         Body
         Modification
done

Initialisation
until [ condition ]
do
         Body
         Modification
done

for var in collection
do
...
done
```

file conditionals

-e \$path: True if path is exists
-f \$file: True if file is regular file
-d \$file: True if file is directory file
-x \$file: True if file is executable
-r \$file: True if file is readable

• -w \$file : True if file is writable