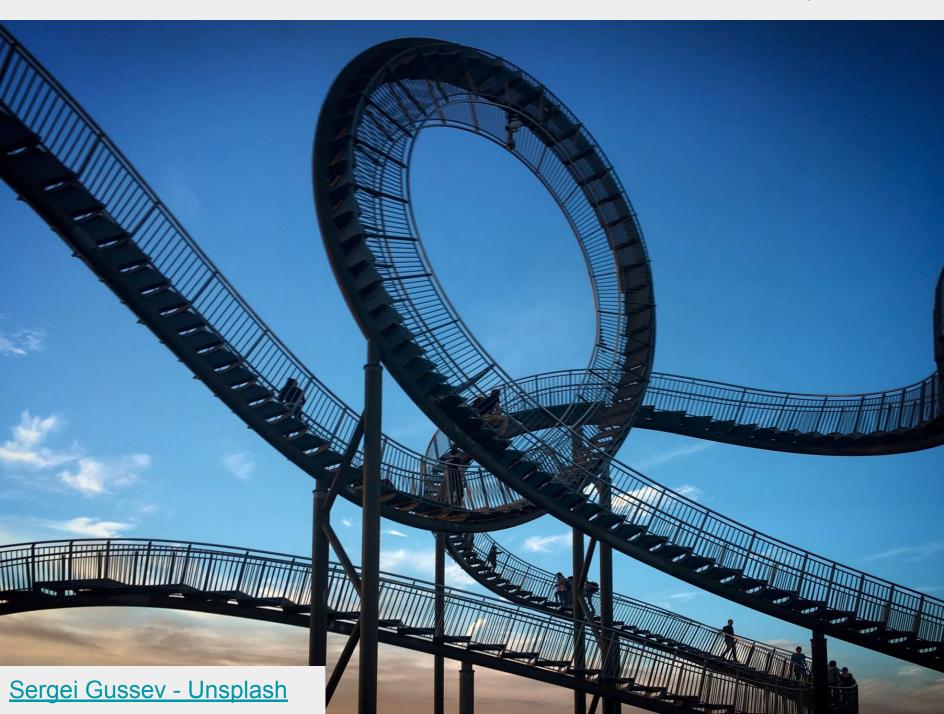
bash scripting – loops

Adapted from materials by Dr. Carrier



Do we expect C-style or Python-style for loops?

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```
for(int i = 0; i < 10; i++){ ... }
vs
for i in range(10):</pre>
```

More like Python!

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```
for var in list
do
...
done
```

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```
for var in list
do
...
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```

```
for var in 1 2 3 4 5
for var in "alice" "bob" "carol"
for idx in {0..10..2}
for var in $@
```

A note on syntax

Recall: \$(command) will run the command inside

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```
var=$(ls)

for idx in $(seq 0 10)

do
   ...
done
```

while loops

```
while condition
do
...
done
```

What are our conditions? Same as if

Don't worry about memorizing these:

https://ryanstutorials.net/bash-scripting-tutorial/bash-if-statements.php

Operator	Description
! EXPRESSION	The EXPRESSION is false.
-n STRING	The length of STRING is greater than zero.
-z STRING	The lengh of STRING is zero (ie it is empty).
STRING1 = STRING2	STRING1 is equal to STRING2
STRING1 != STRING2	STRING1 is not equal to STRING2
INTEGER1 -eq INTEGER2	INTEGER1 is numerically equal to INTEGER2
INTEGER1 -gt INTEGER2	INTEGER1 is numerically greater than INTEGER2
INTEGER1 -It INTEGER2	INTEGER1 is numerically less than INTEGER2
-d FILE	FILE exists and is a directory.
-e FILE	FILE exists.
-r FILE	FILE exists and the read permission is granted.
-s FILE	FILE exists and it's size is greater than zero (ie. it is not empty).
-w FILE	FILE exists and the write permission is granted.
-x FILE	FILE exists and the execute permission is granted.