The art of R TM the Great Unread

 $\begin{aligned} & \mathsf{DTL}|\mathsf{Digital} \ \mathsf{Arts} \ \mathsf{Initiative} \\ & \mathsf{Interacting} \ \mathsf{Minds} \ \mathsf{Centre}|\mathsf{Aarhus} \ \mathsf{University} \end{aligned}$

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Control structures

Control the flow of execution

By keeping to the programming principle DRY (don't repeat yourself) we can avoid unnecessary complications

if (condition), else

for

```
1     for (i in 1:5) {
2         print(i)
3     }
4     [1]     1
5     [1]     2
6     [1]     3
7     [1]     4
8     [1]     5
```

while; repeat; break; next; return

Functions

For repeating lines of code

A function is an object that consists of a body, formals, and an environment

```
add <- function(a,b){
        return(a+b)
3
4
   > body (add)
       return(a + b)
6
   > formals(add)
   $a
10
   $b
11
12
   > environment(add)
13
   <environment: R_GlobalEnv>
14
```

