

JS 2 - Program structures

DE HOGESCHOOL MET HET NETWERK



Expression

expression stuk code dat een waarde produceert expressions kunnen sub-expressions bevatten

```
true
12
12 + 3
12 + 3 * (1 + a)

3 * (2 + Math.sqrt( 1 + Math.sqrt( 64 ) ) )
```

Statement

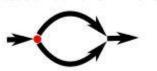
```
statement
             instructie, opdracht
             meestal na statement een puntkomma
   1;
             // zinloze statement
             // produceer de waarde 1
             // er gebeurt verder niets
   let a = 12 + 3;
             // maak de variabele a aan geef
             // deze waarde 15 (resultaat v.
             // expression 12 + 3)
   a = a + 1;
             // verhoog a met 1 (resultaat v.
             // expression a + 1
```



Sequentie ----



if



```
let num = Number(prompt("Pick a number"));
if (num < 10) {
    console.log("Small");
} else if (num < 100) {
    console.log("Medium");
} else {
    console.log("Large");
}</pre>
```



```
if -O-
```

```
let theNumber = Number(prompt("Pick a number"));
if (!Number.isNaN(theNumber)) {
   console.log("Your number is the square root of " +
      theNumber * theNumber);
let theNumber = Number(prompt("Pick a number"));
if (!Number.isNaN(theNumber)) {
   console.log("Your number is the square root of " +
      theNumber * theNumber);
} else {
   console.log("Hey. Why didn't you give me a number?");
```



switch



```
let answer = prompt("What is the weather like?");
switch ( answer ) {
   case "rainy":
      console.log("Remember to bring an umbrella.");
      break;
   case "sunny":
      console.log("Dress lightly.");
   case "cloudy":
      console.log("Go outside.");
      break;
   default:
      console.log("Unknown weather type!");
      break;
```



while



```
let number = 0;
while (number <= 12) {</pre>
   console.log(number);
   number = number + 2;
console.log(number);
let result = 1;
let counter = 0;
while (counter < 10) {</pre>
   result = result * 2;
   counter++;
                      // → 1024
console.log(result);
```



do while

```
let yourName;
do {
    yourName = prompt("Who are you?");
} while (!yourName);
console.log(yourName);
```



for





Besluit

Programma bestaat uit statements

Meestal bevatten statements expressions

Expressions kunnen bestaan uit sub-expressions

Sequentie

Opsplitsing: if-else, switch

Looping: while, do while, for

