LEGO NXT 2.1

FAHREN

Inhalt

- Das Programm öffnen
- Eine neue Datei erstellen
- Fahrstrecke erstellen
- Roboter fahren lassen

Das Programm öffnen

Das Programm öffnen

- Schritt 1: PC einschalten

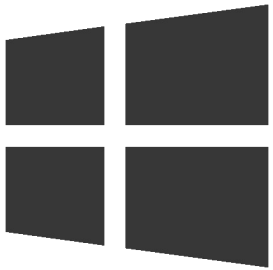
Benutzer: `schueler`

Kennwort: `Schule-2022`

Das Programm öffnen

- Schritt 2: „NXT 2.1 Programming“ öffnen

Das Programm öffnen



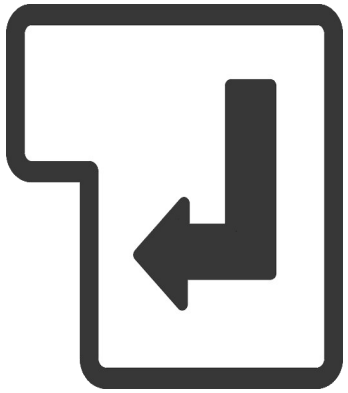
- Taste drücken

Das Programm öffnen

„NXT 2.1 “ eingeben

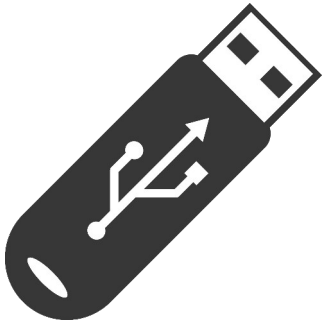
Das Programm öffnen

Enter-Taste drücken

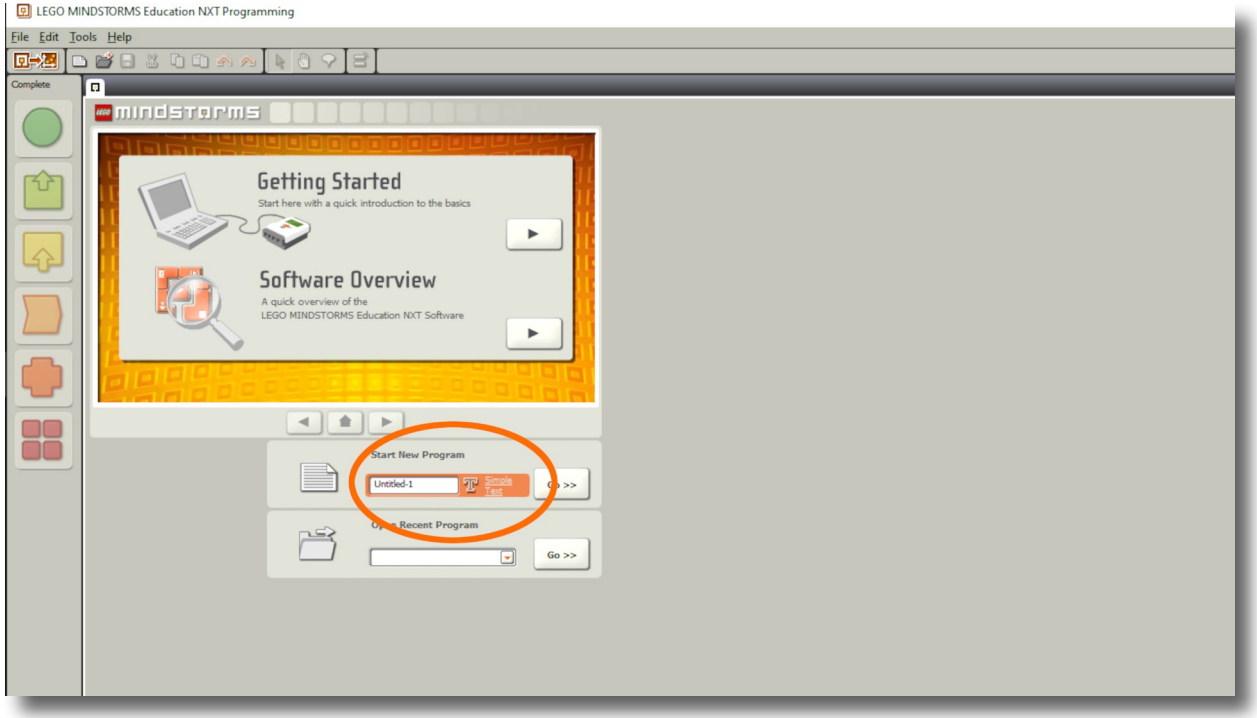


Das Programm öffnen

USB-Stick einstecken



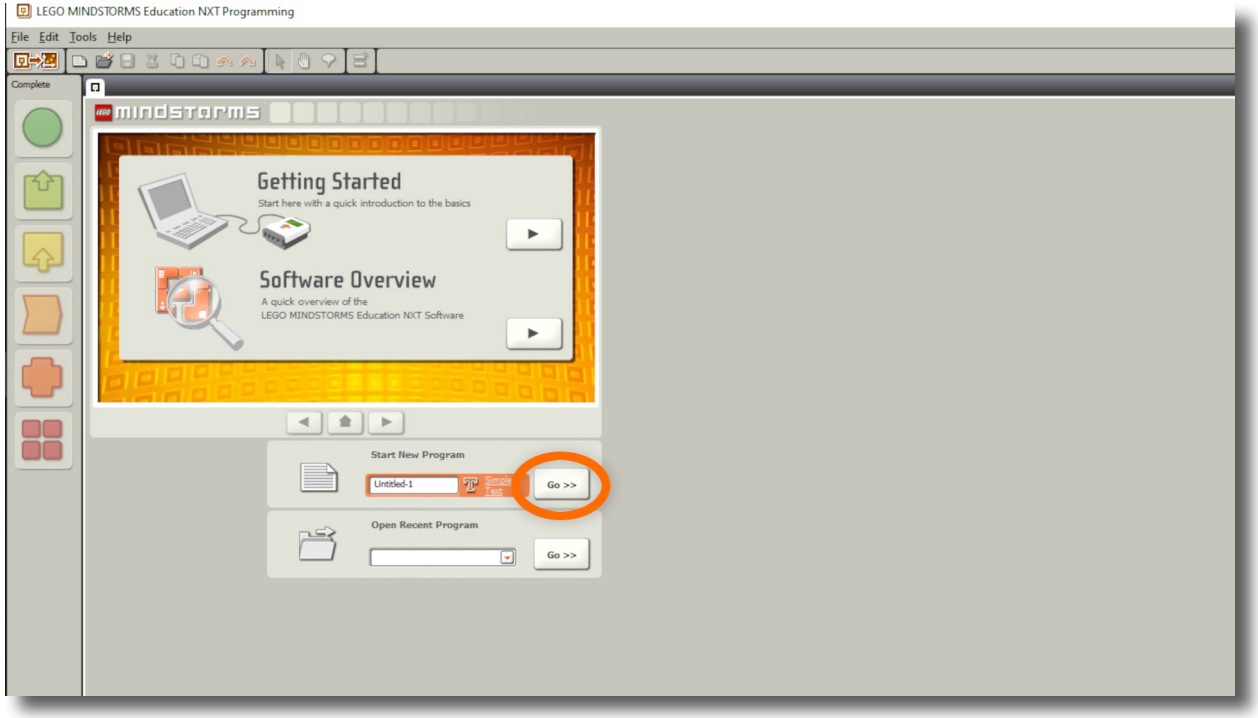
Das Programm erstellen



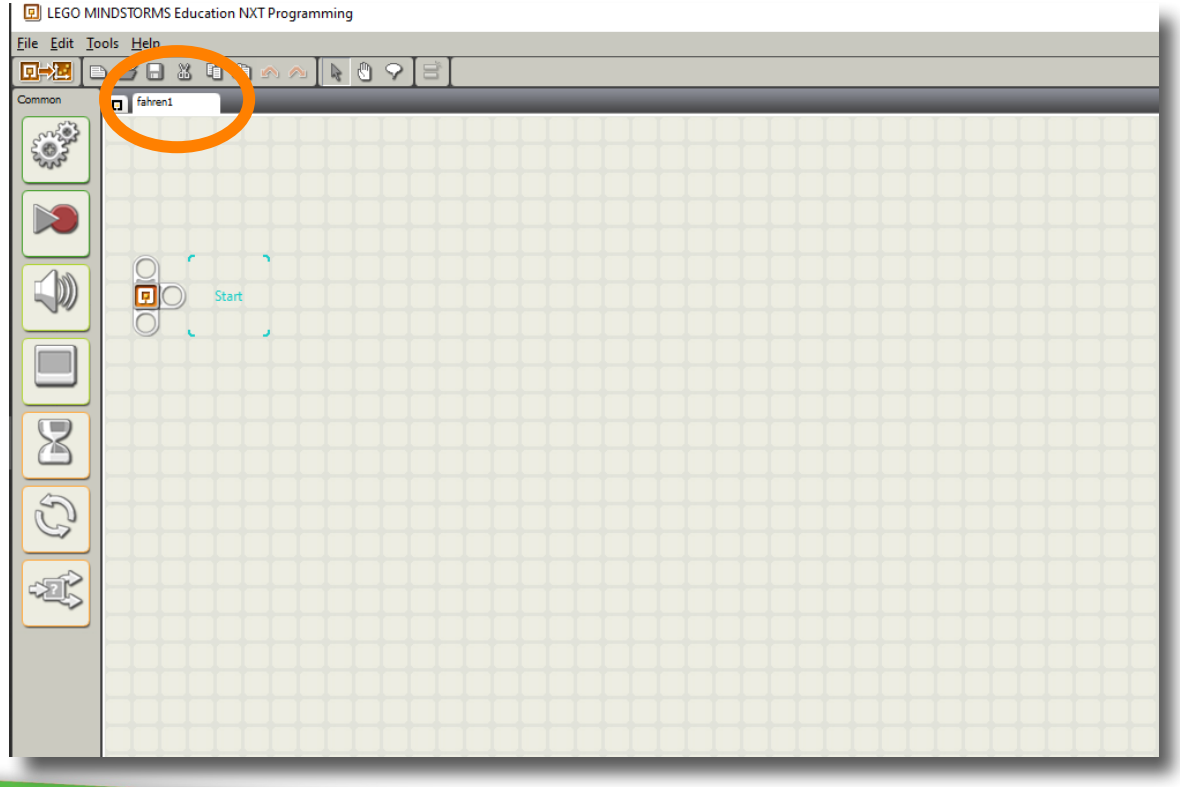
Das Programm erstellen

Name: `fahren1`

Das Programm erstellen

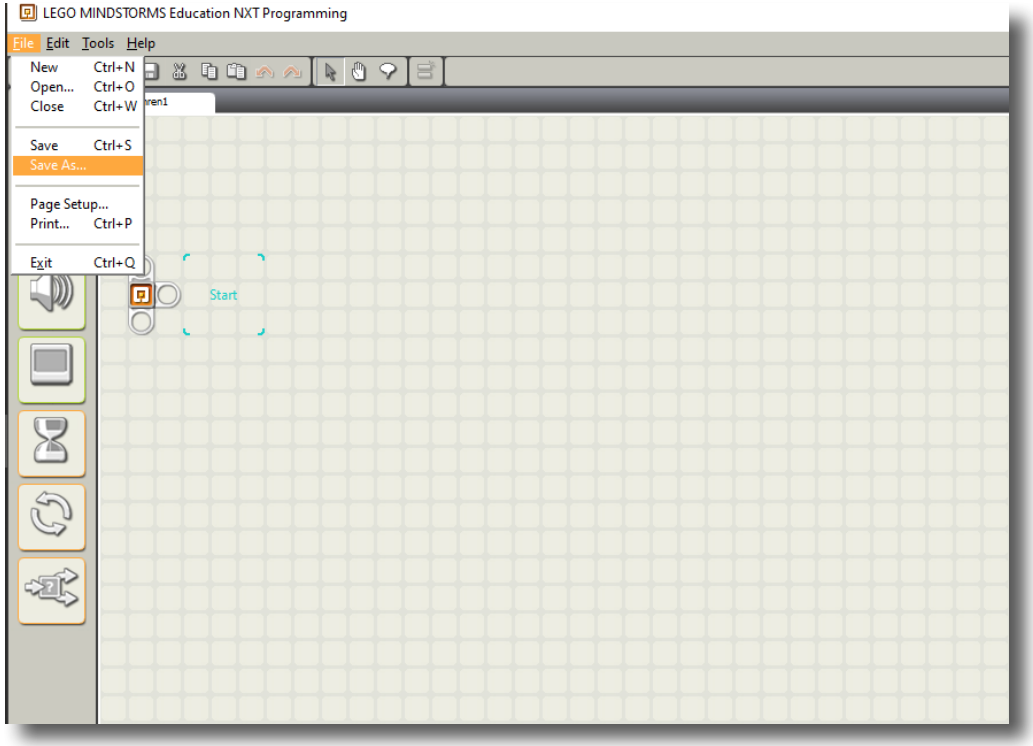


Das Programm erstellen

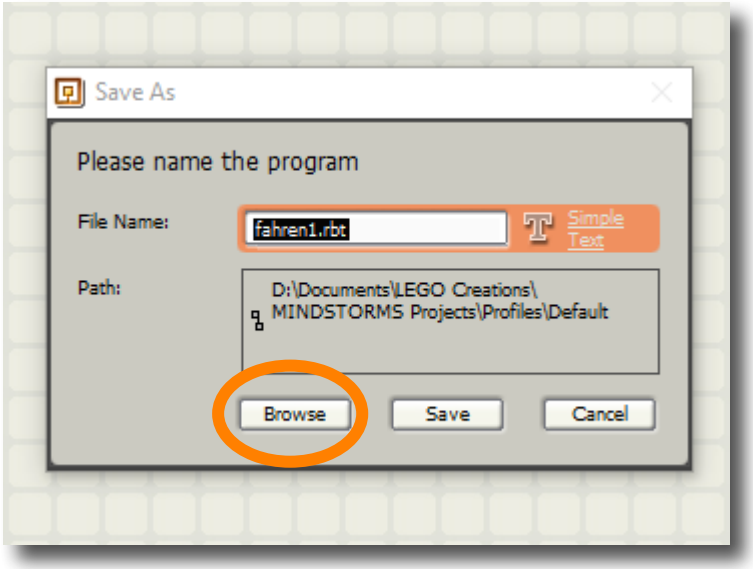


Das Programm speichern

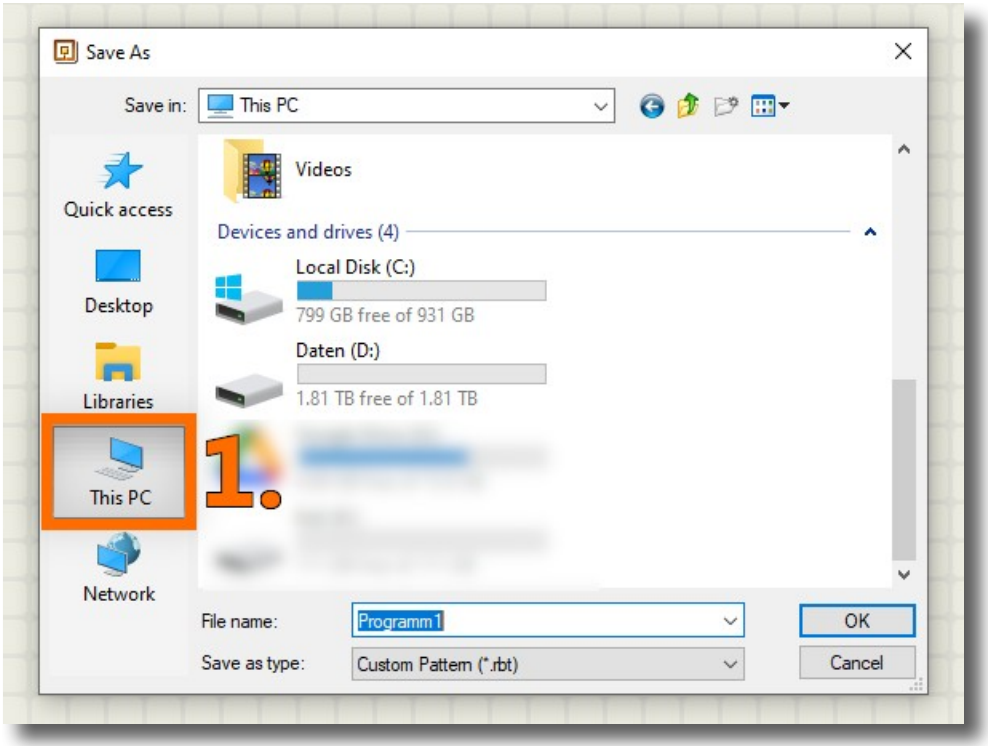
Das Programm speichern



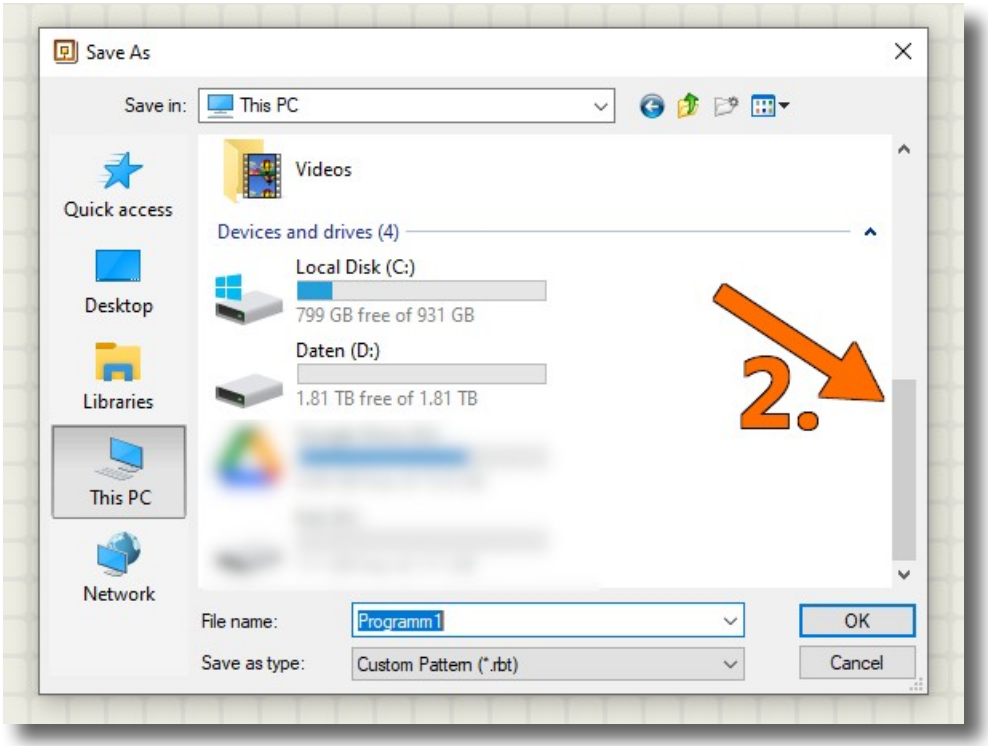
Das Programm speichern



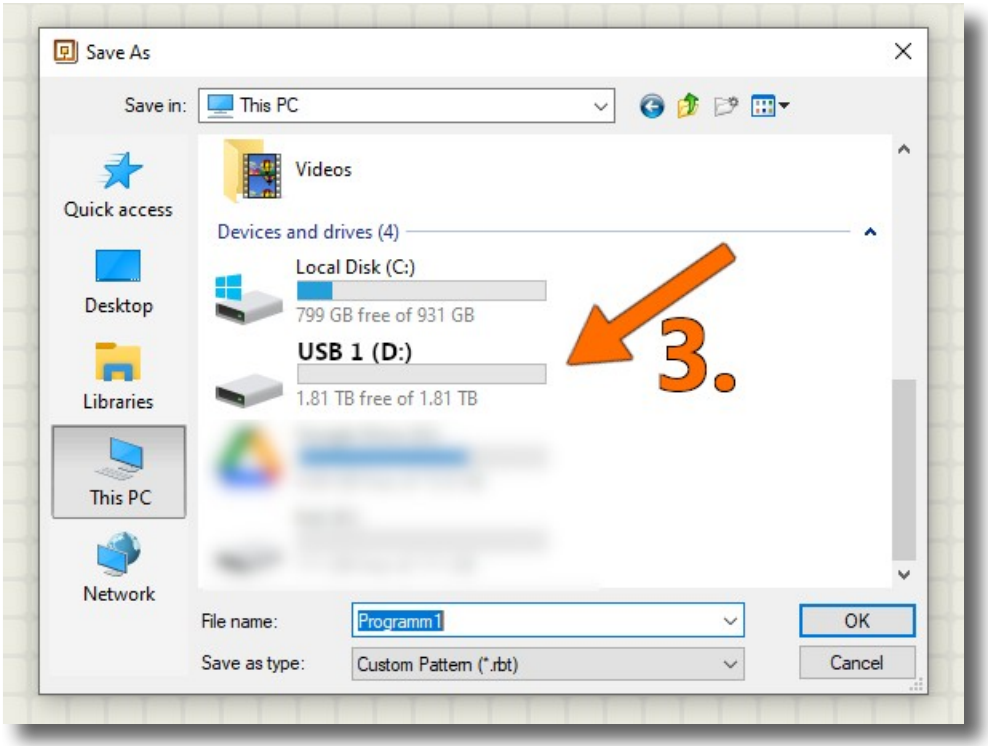
Das Programm speichern



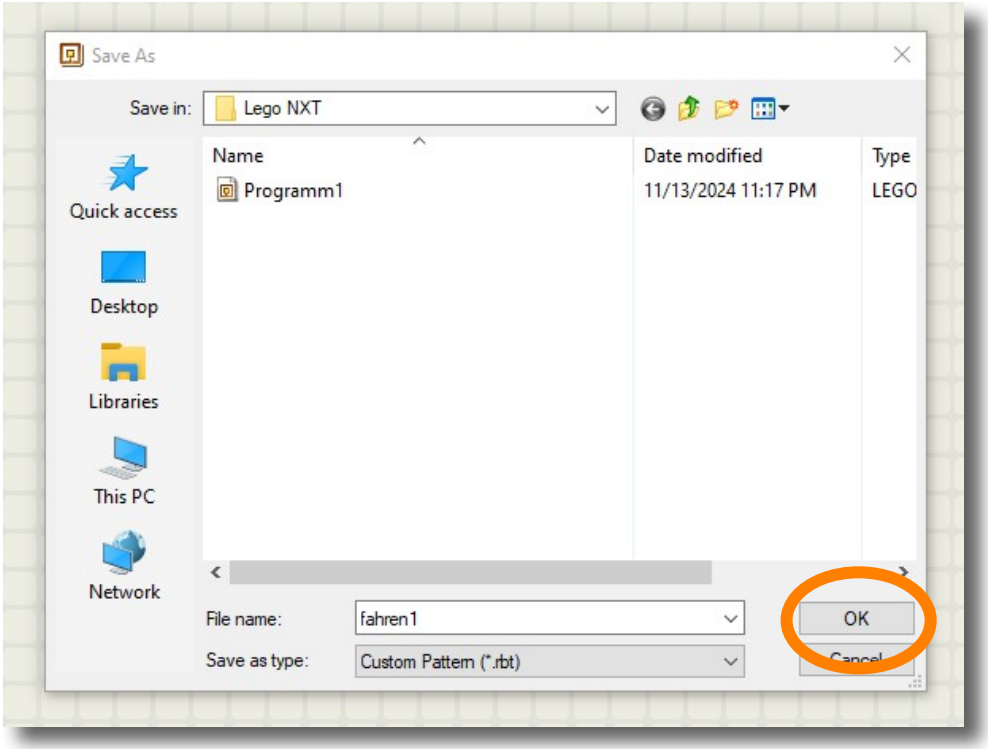
Das Programm speichern



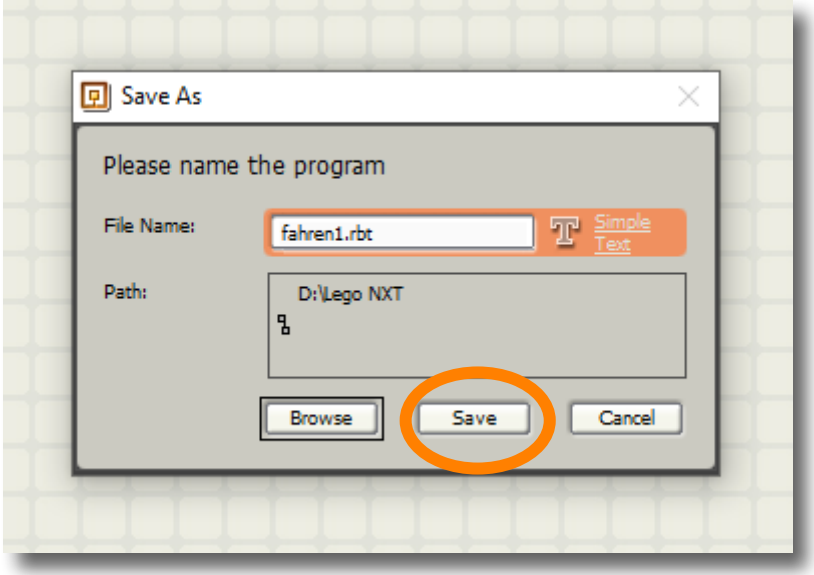
Das Programm speichern



Das Programm speichern

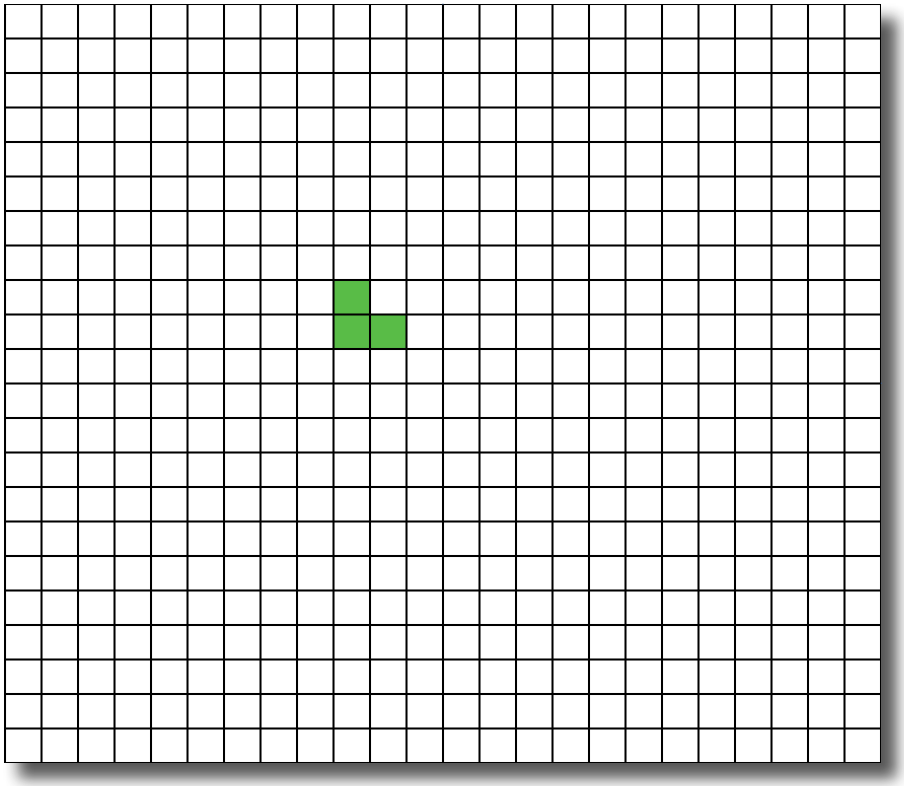


Das Programm speichern



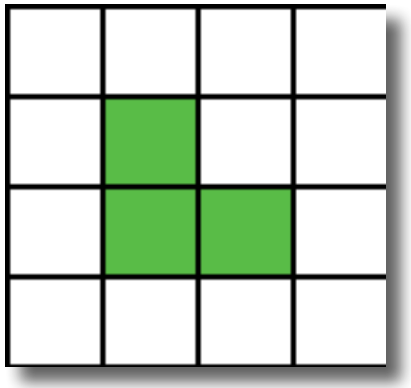
Frage: Wie soll der Roboter fahren?

Weg 1



Weg 1

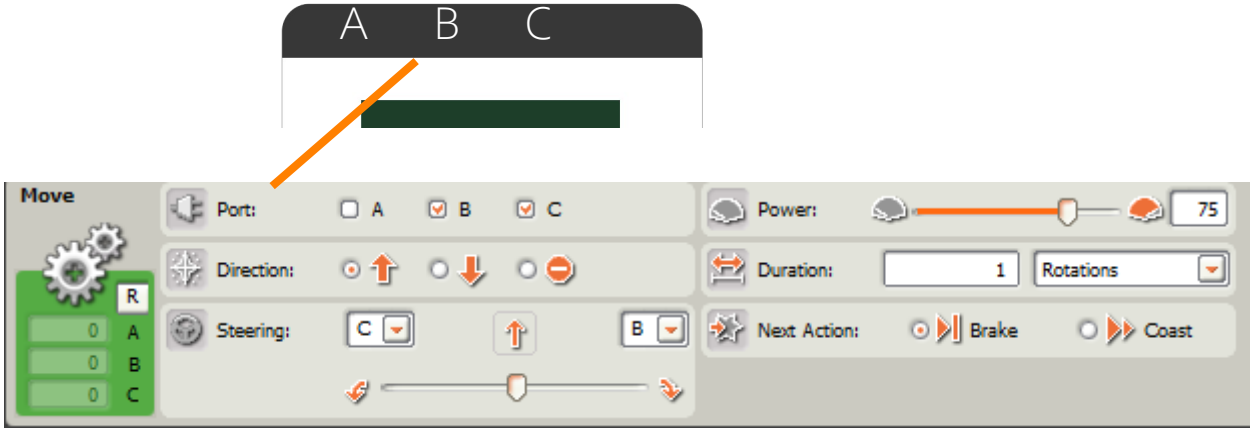
1. Geradeaus
2. 90° Kurve
3.Geradeaus



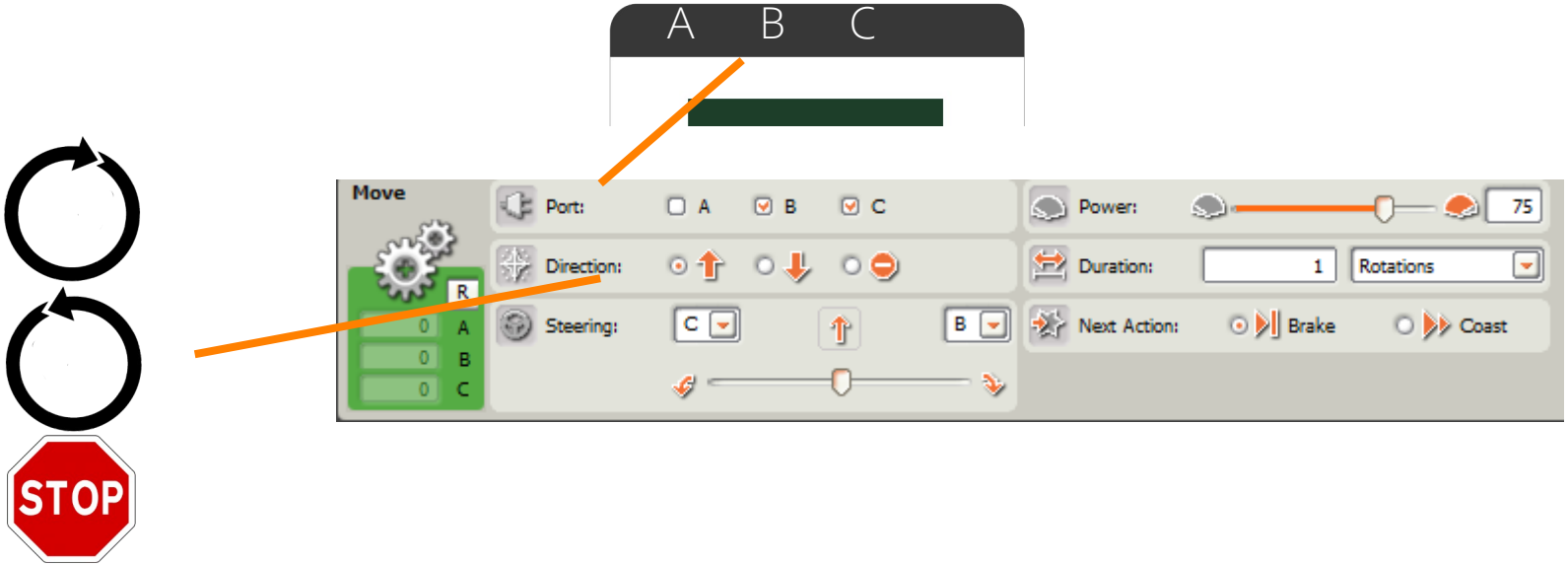
Exkurs


Move
R
0
A
0
B
0
C
Port:
A
B
C
Direction:
Steering:
C
B
Power:
75
Duration:
1
Rotations
Next Action:
Brake
Coast

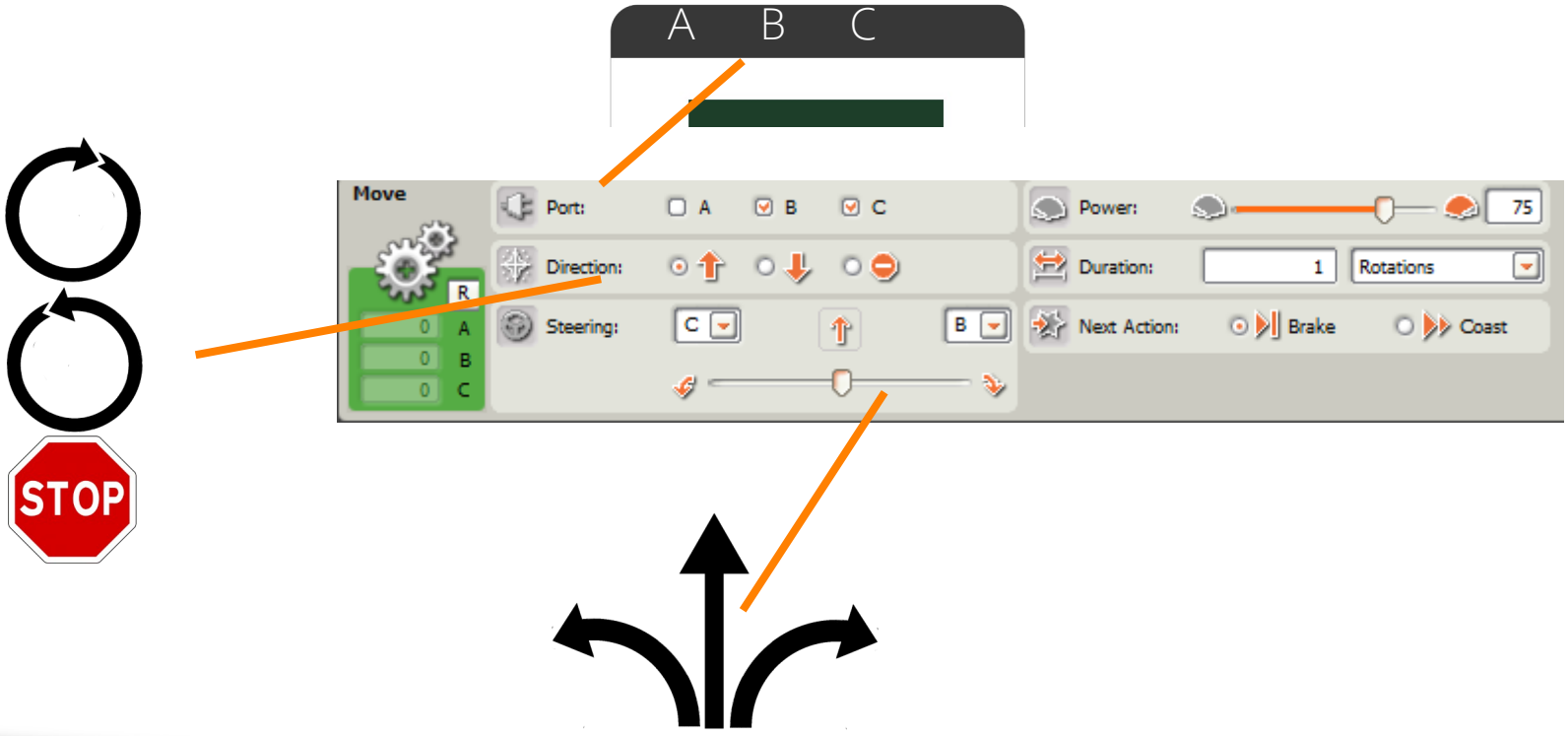
Exkurs


A B C
Move
Port:
A
B
C
Power:
75
Direction:
Duration:
1
Rotations
Steering:
C
B
Next Action:
Brake
Coast
R
0
A
0
B
0
C

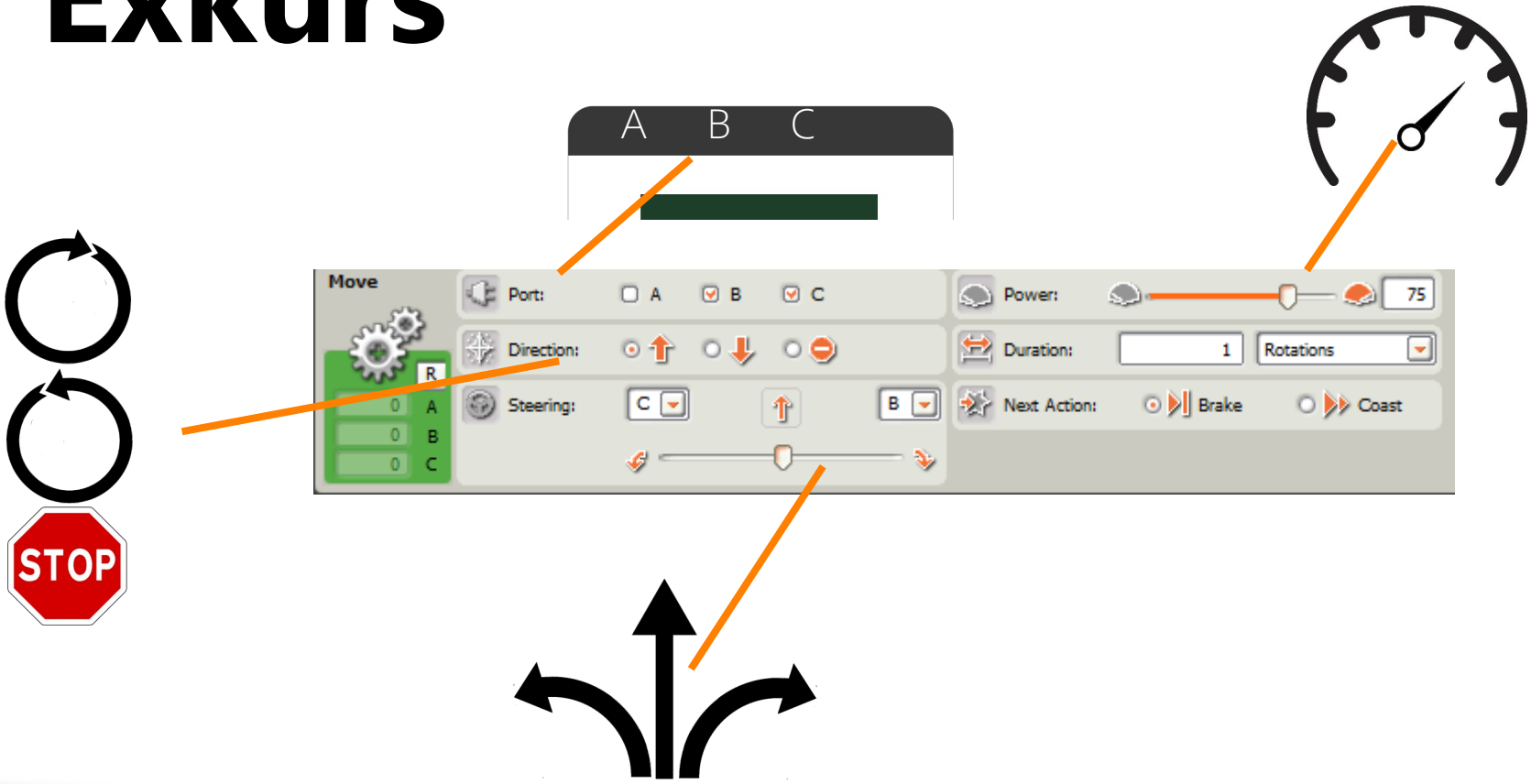
Exkurs


A B C
Move
Port:
A
B
C
Power:
75
Direction:
Duration:
1
Rotations
Steering:
C
B
Next Action:
Brake
Coast
R
0
A
0
B
0
C
STOP

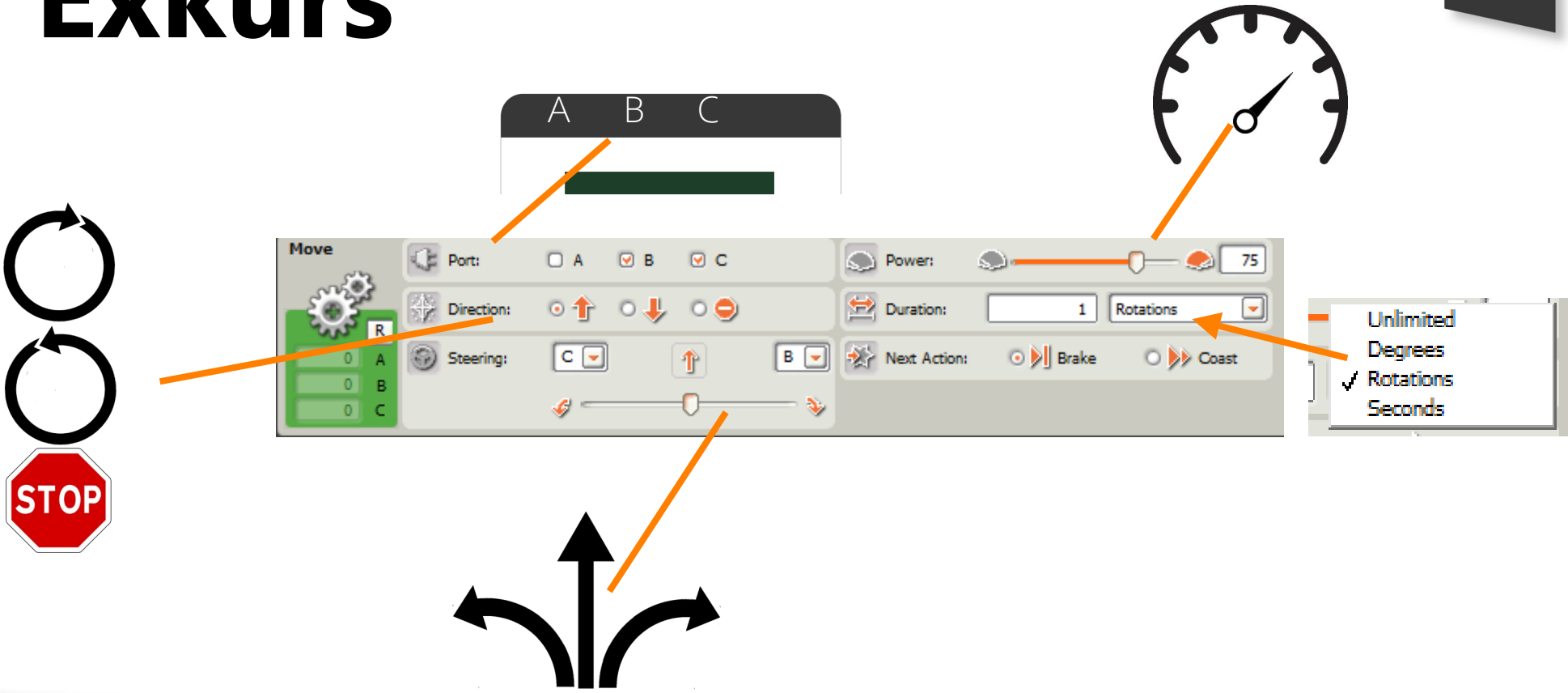
Exkurs


A B C
Move
Port:
A
B
C
Power:
75
Direction:
Duration:
1
Rotations
R
0
A
0
B
0
C
Steering:
C
B
Next Action:
Brake
Coast
STOP

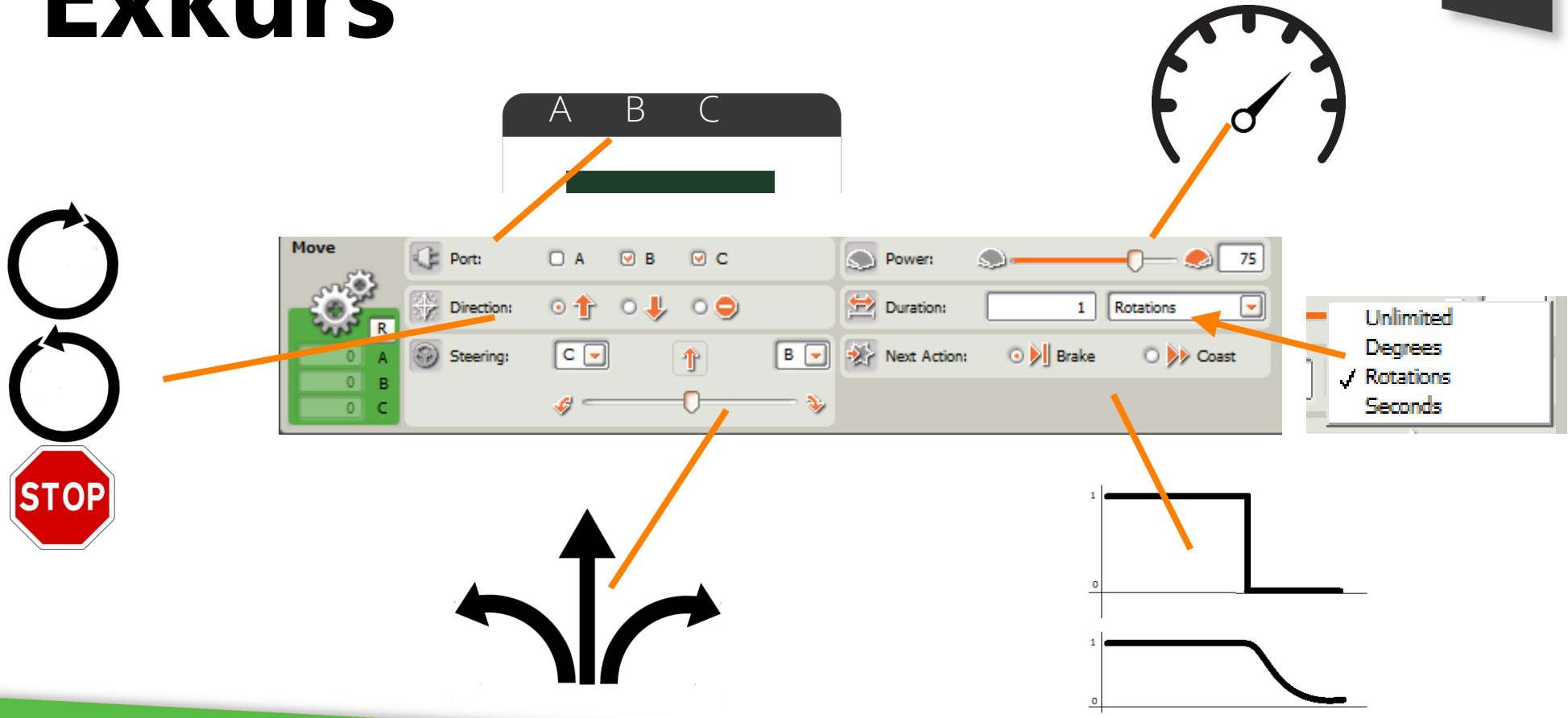
Exkurs


A B C
Move
Port:
A
B
C
Power:
75
Direction:
Duration:
1
Rotations
Steering:
C
B
Next Action:
Brake
Coast
R
0
A
0
B
0
C
STOP

Exkurs

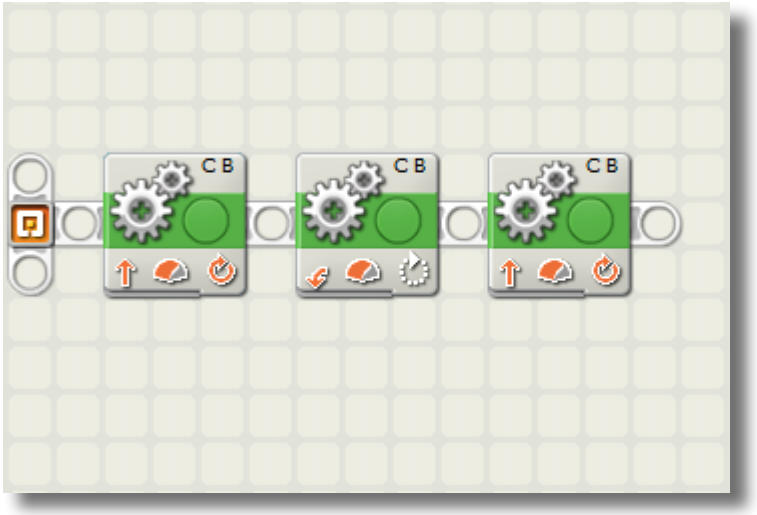

A B C
Move
Port:
A
B
C
Power:
75
Direction:
Duration:
1
Rotations
Steering:
C
B
Next Action:
Brake
Coast
R
0
A
0
B
0
C
Unlimited
Degrees
Rotations
Seconds
STOP

Exkurs


A B C
Move
Port:
A
B
C
Power:
75
Direction:
Duration:
1
Rotations
Steering:
C
B
Next Action:
Brake
Coast
R
0
A
0
B
0
C
Unlimited
Degrees
Rotations
Seconds
STOP
1
0
1
0

Weg 1

1. Geradeaus
2. 90° Kurve
3.Geradeaus

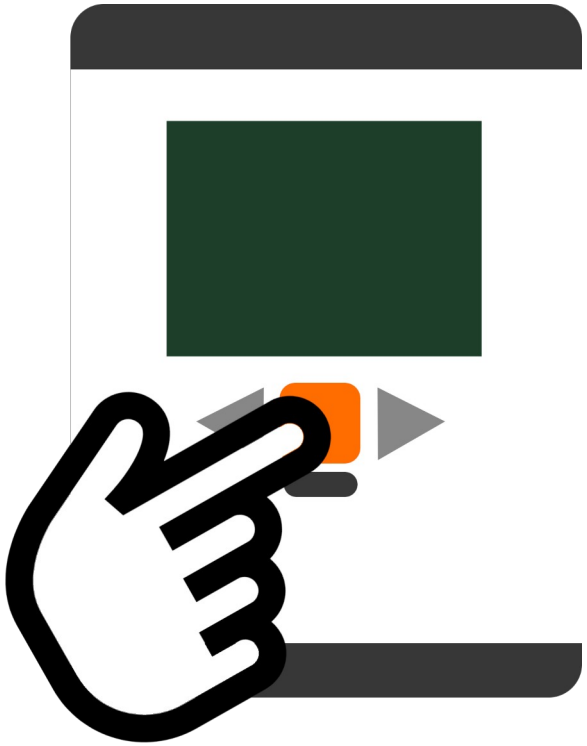


Speichern!

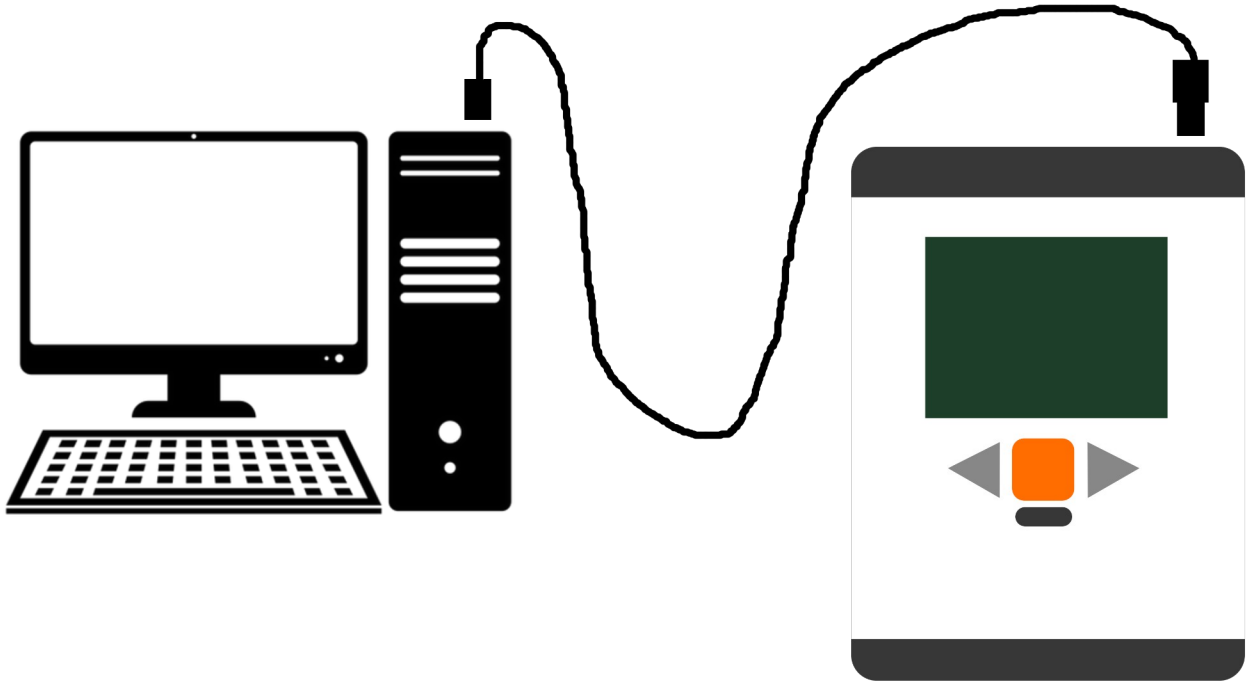
[STRG] + [S]

Wir können es testen

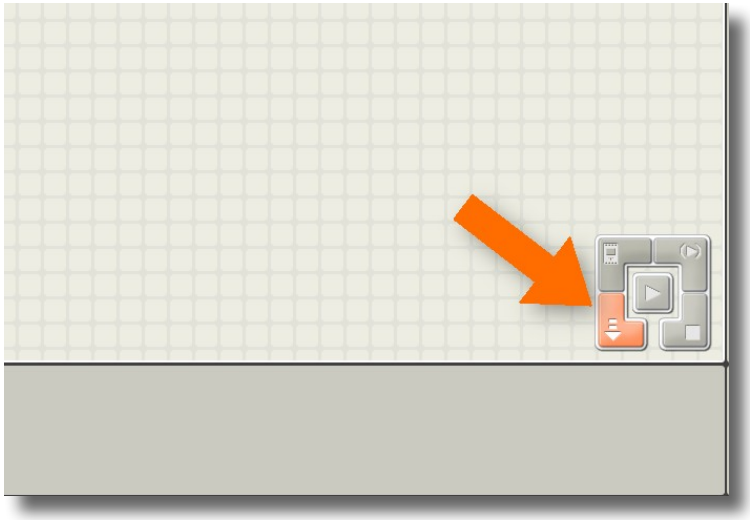
Den NXT einschalten



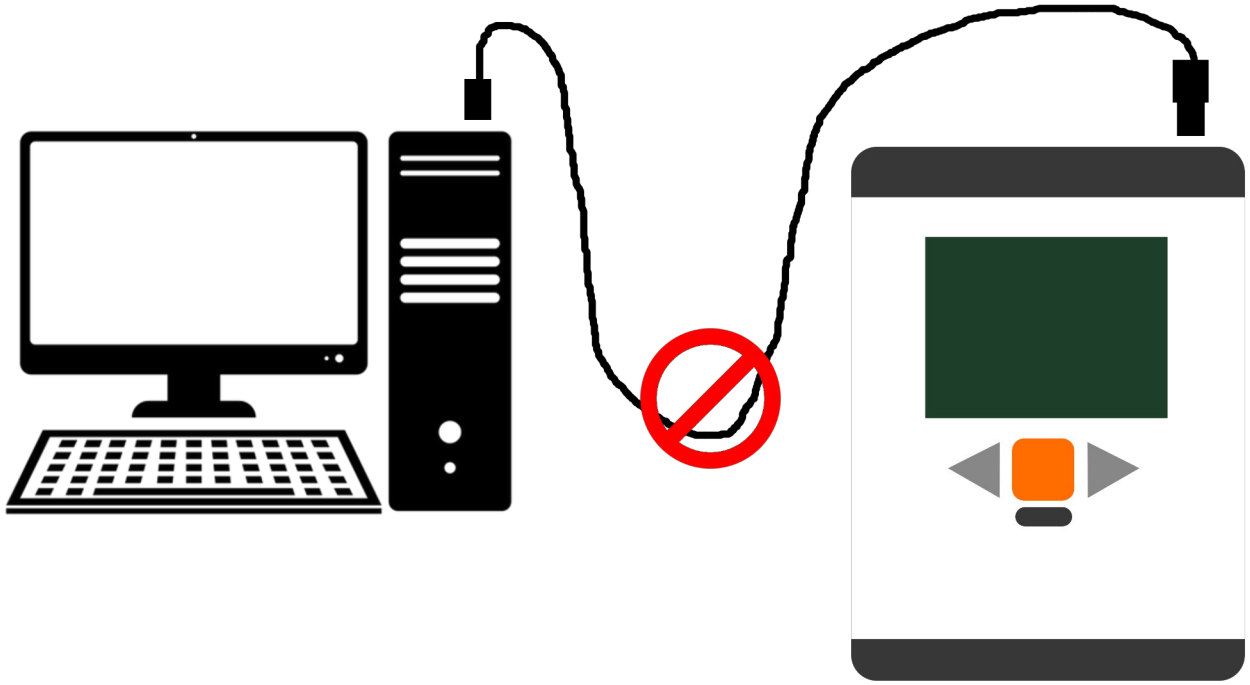
Den NXT verbinden



Herunterladen zum NXT



Den NXT trennen



Wichtig!

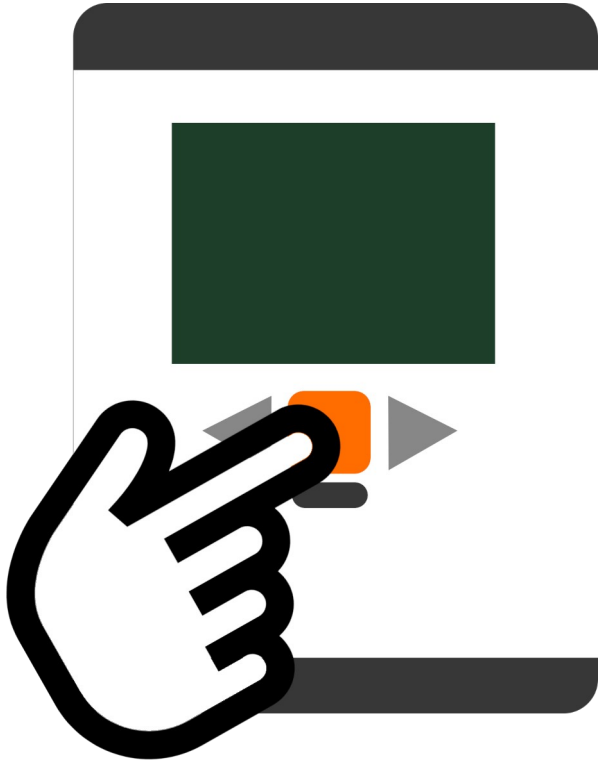
Das Programm auswählen

MY FILES

SOFTWARE FILES

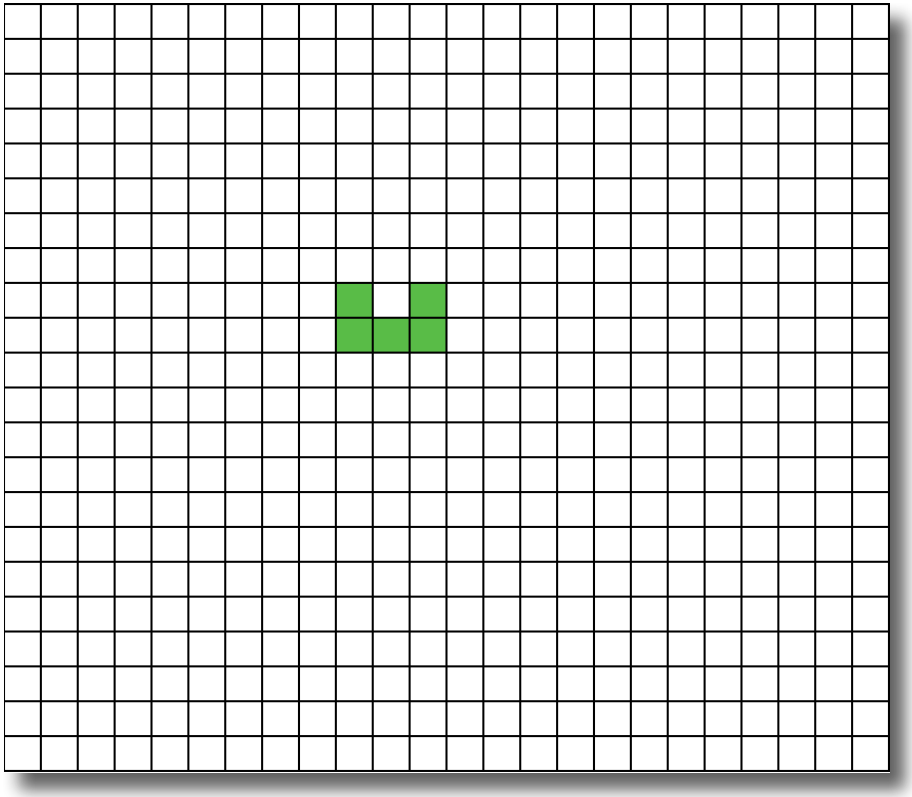
fahren1.rbt

RUN



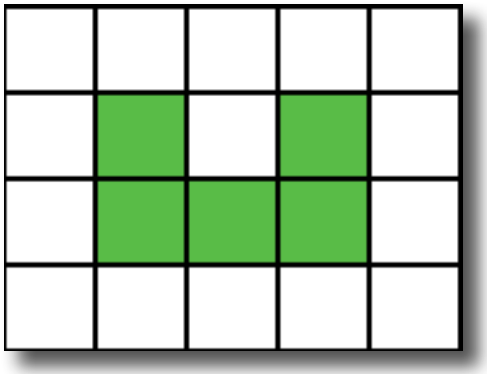
Der Roboter fährt unsere Strecke

Weg 2

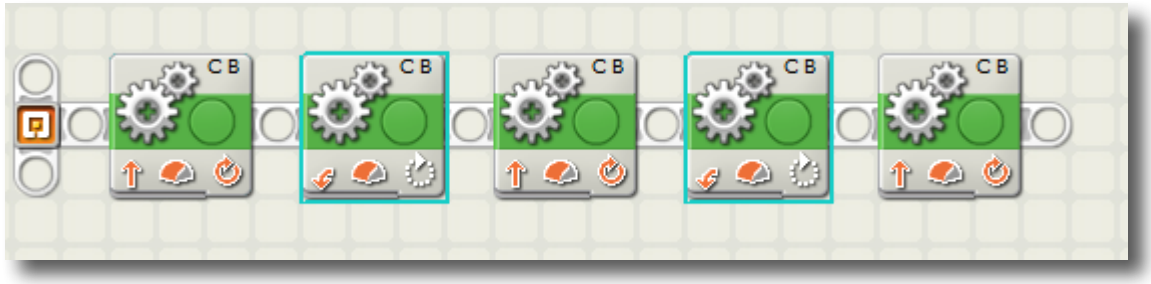


Weg 2

1. Geradeaus
2. 90° Kurve
3. Geradeaus
4. 90° Kurve
5. Geradeaus



Weg 2

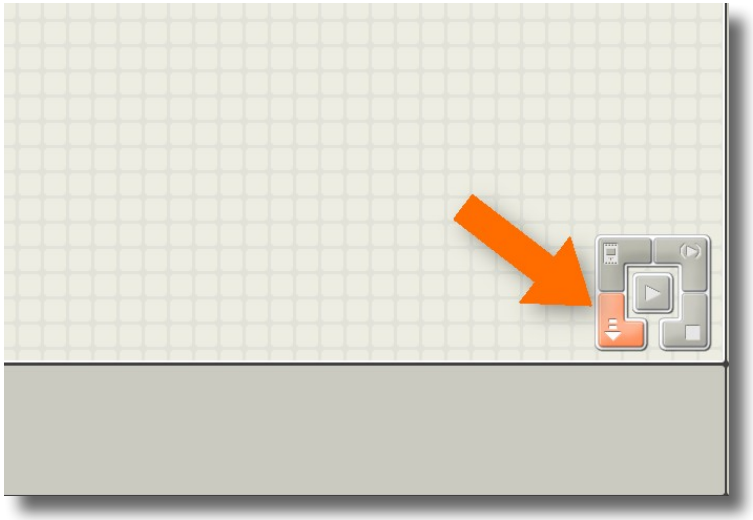

C B
C B
C B
C B
C B


Move
Port:
A
B
C
Power:
75
Direction:
Duration:
170
Degrees
Steering:
C
B
Next Action:
Brake
Coast
R
0
A
0
B
0
C

Speichern!

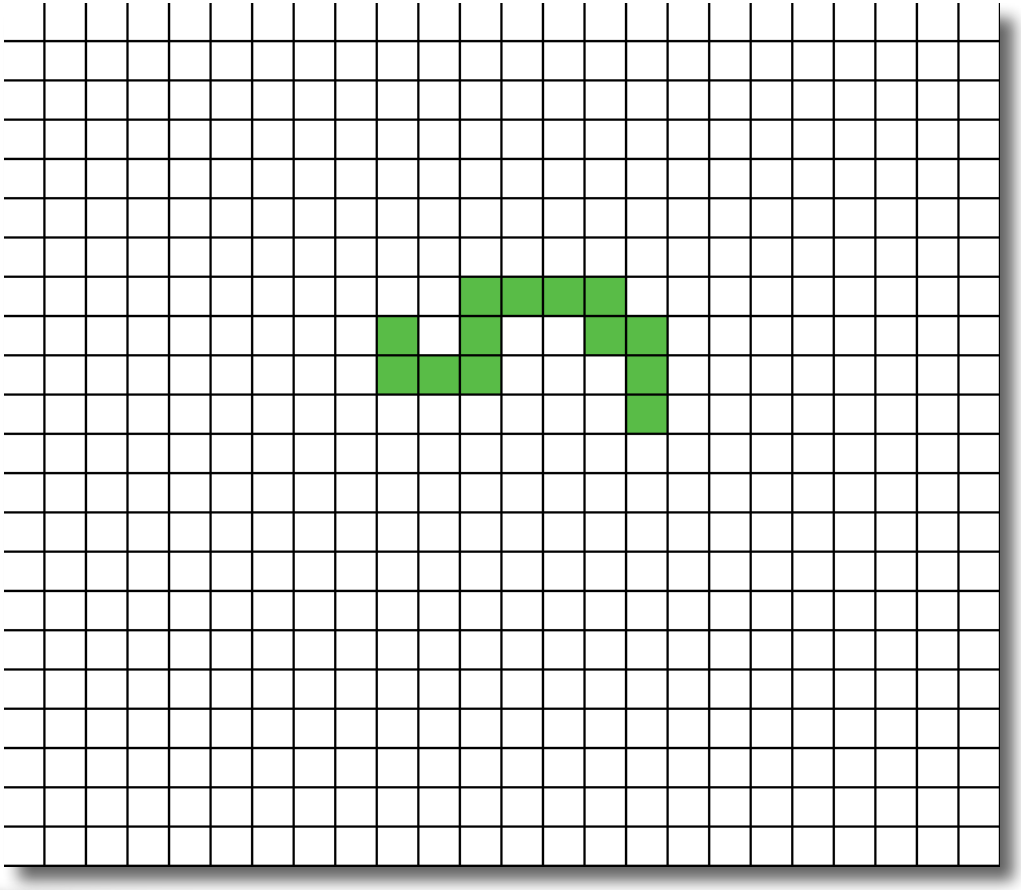
[STRG] + [S]

Herunterladen zum NXT

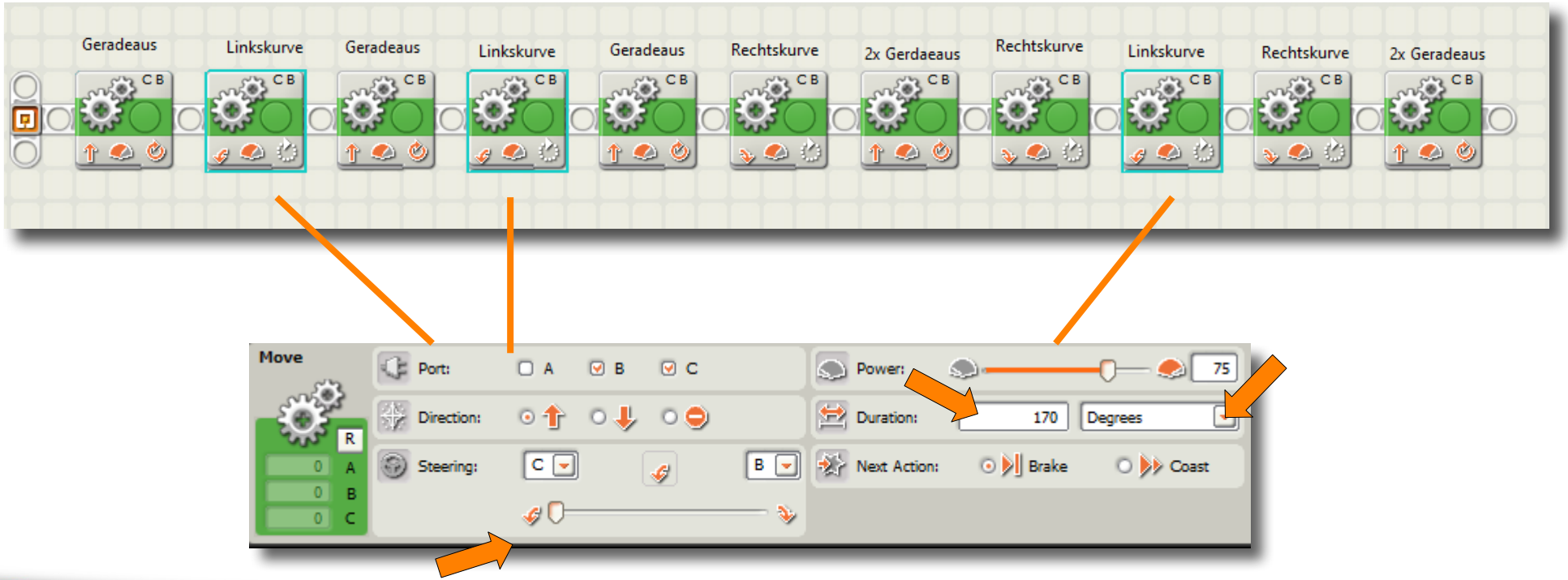


Weg 3

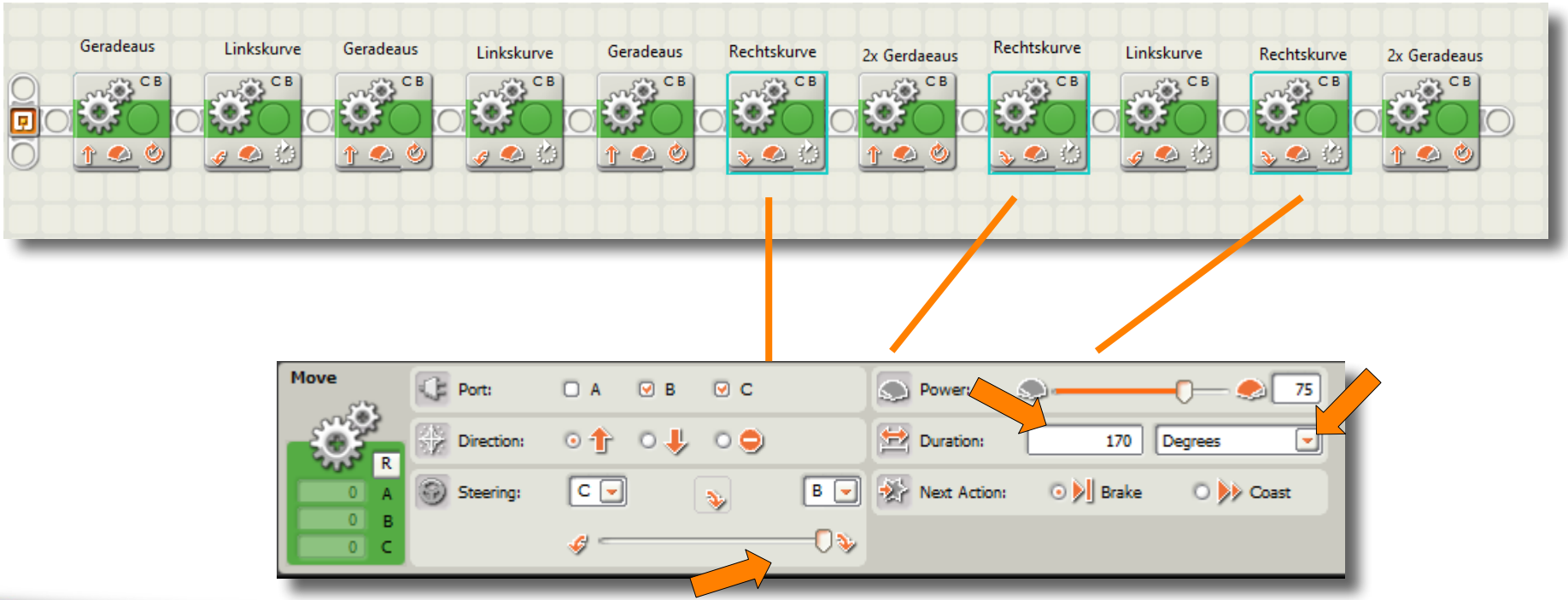
1. Geradeaus
2. Linkskurve
3. Geradeaus
4. Linkskurve
5. Geradeaus
6. Rechtskurve
7. 2x Geradeaus
8. Rechtskurve
9. Linkskurve
10. Rechtskurve
11. 2x Geradeaus



Weg 3


Geradeaus
Linkskurve
Geradeaus
Linkskurve
Geradeaus
Rechtskurve
2x Gerdaeaus
Rechtskurve
Linkskurve
Rechtskurve
2x Geradeaus
Move
Port:
A
B
C
Direction:
Steering:
C
B
R
A
B
C
Power:
75
Duration:
170
Degrees
Next Action:
Brake
Coast

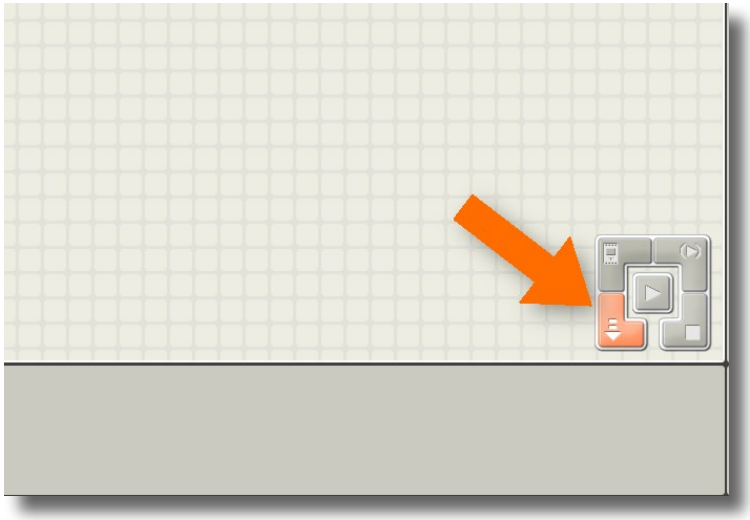
Weg 3


Geradeaus
Linkskurve
Geradeaus
Linkskurve
Geradeaus
Rechtskurve
2x Gerdaeaus
Rechtskurve
Linkskurve
Rechtskurve
2x Geradeaus
Move
Port:
A
B
C
Direction:
Steering:
C
B
R
A
B
C
Power:
75
Duration:
170
Degrees
Next Action:
Brake
Coast

Speichern!

[STRG] + [S]

Herunterladen zum NXT



Fertig