



# Informatik als Wahlpflichtfach

für die Klassen 9R - 10R

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Im Jahr 2017 wurden bei 92% der weltweiten Stellen mindestens grundlegende Computer- und Kommunikationskenntnisse vorausgesetzt.

**Quelle:** EU-Kommission für Beschäftigung, Wachstum und Investitionen



# Programmieren mit SCRATCH

The image shows the Scratch programming environment. The top bar includes the Scratch logo, a globe icon, and menu options: File, Edit, and an "Untitled-1" window. There are buttons for "Share", "See Community", and "Give Feedback". The user's profile is "scratch-cat".

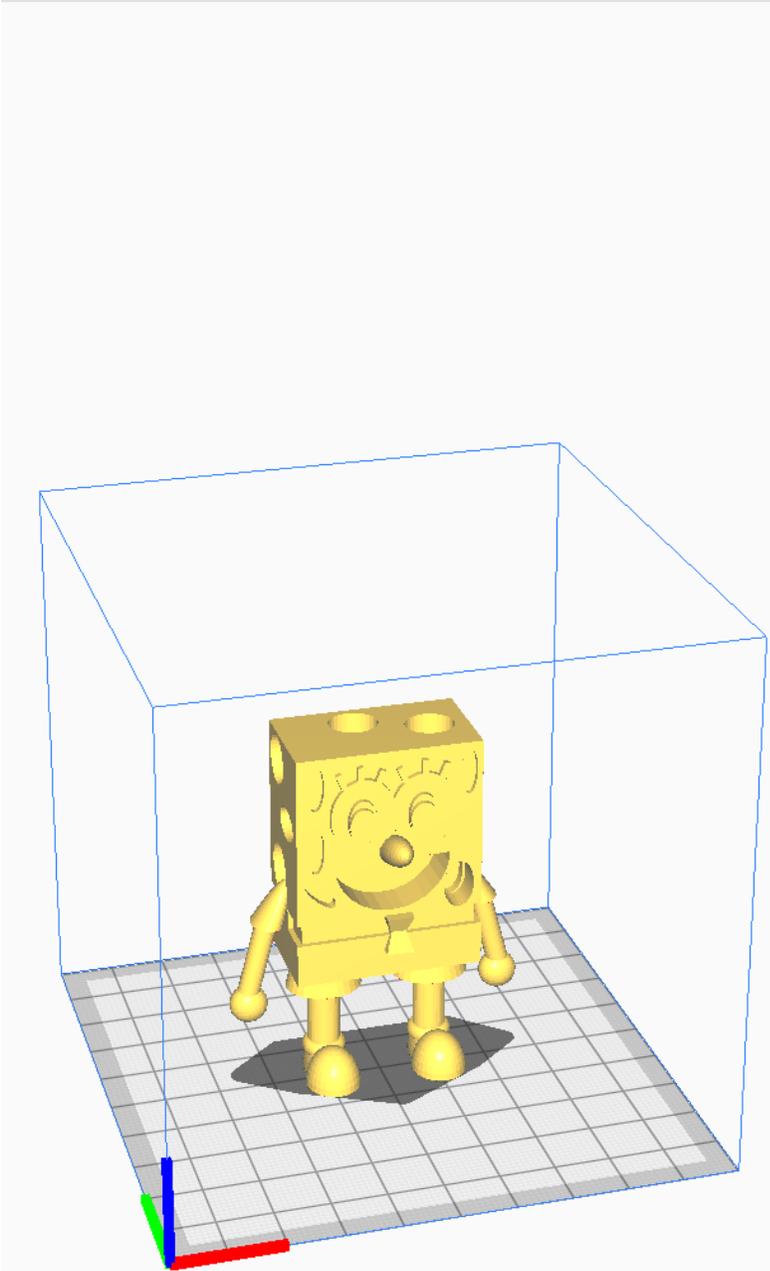
The left sidebar contains a "Blocks" palette with categories: Motion, Looks, Sound, Events, Control, Sensing, Operators, Variables, and My Blocks. The "Motion" category is selected, showing blocks like "move 10 steps", "go to x: -21 y: 88", "go to random position", "glide 1 secs to x: -21 y: 88", "glide 1 secs to random position", "turn 15 degrees", "point in direction 90", "point towards mouse-pointer", "change x by 10", "set x to -21", and "change y by 10".

The main workspace shows a script for a sprite named "Cat1 Flying":

```
when clicked
  forever loop
    move 4 steps
    if x position > 260 then
      set x to -180
```

The right side of the interface shows the "Stage" area with a background of a landscape with a volcano and a flying cat. Below the stage are controls for the "Cat1 Flying" sprite: x: 0, y: 88, Size: 100, Direction: 90. There are also "Show" and "Hide" buttons. The "Backdrops" area shows a list of backdrops with "2" backdrops available.

3D-Druck mit  
TinkerCAD und  
Cura



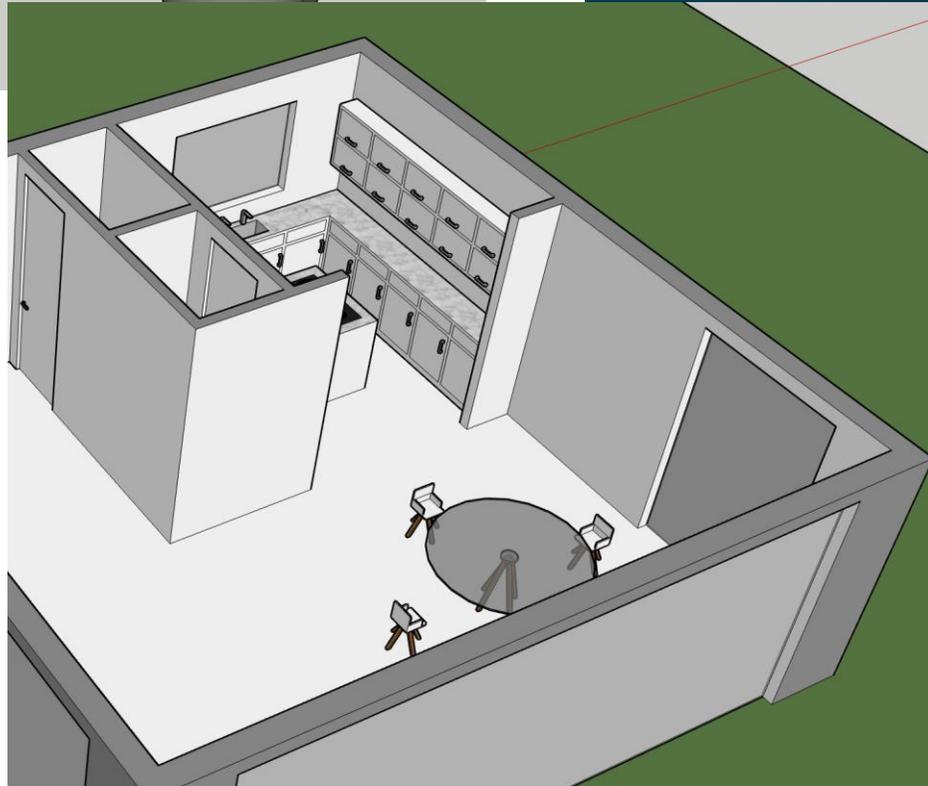
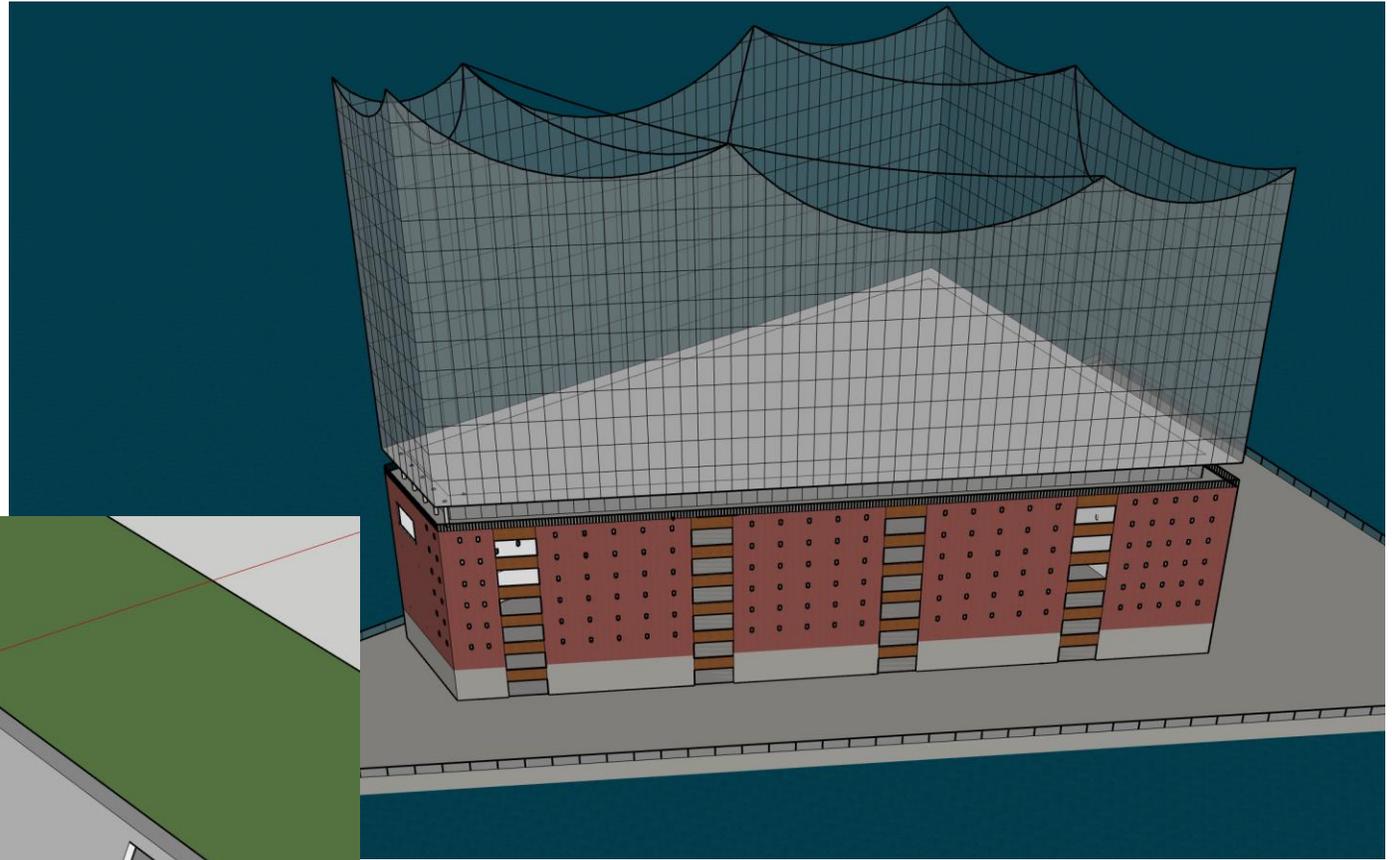
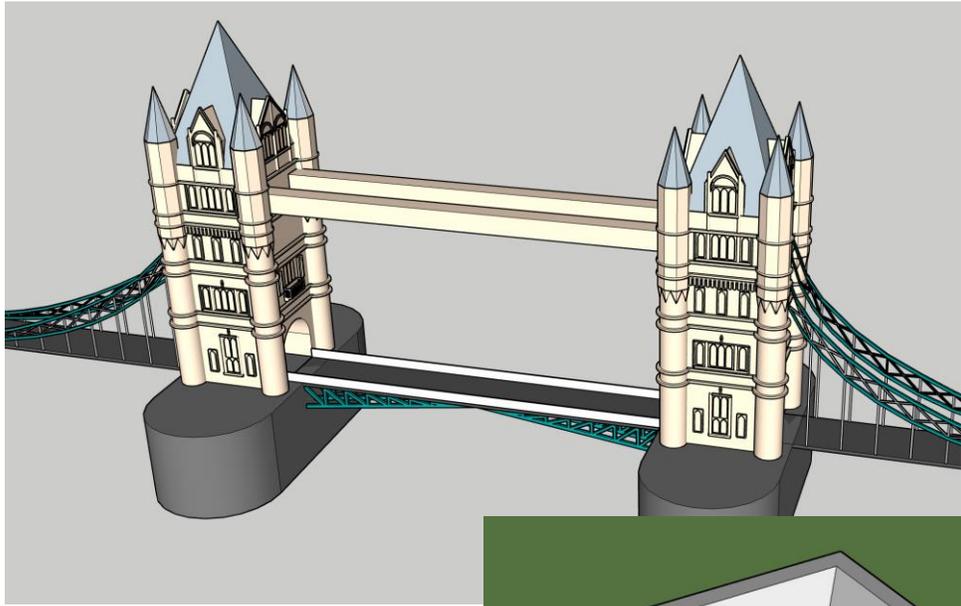
### Print settings

Profile: Normal - 0.15mm

Search settings

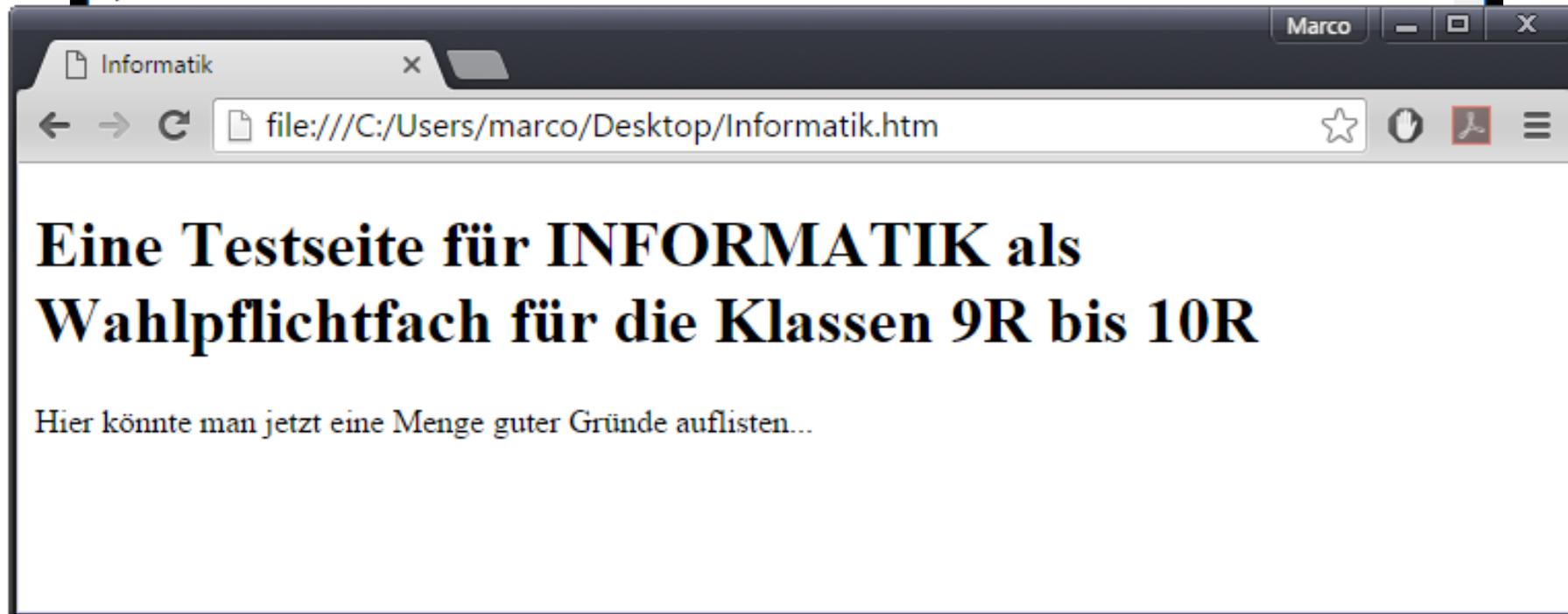
- Quality**
  - Layer Height: 0.15 mm
- Shell**
  - Wall Thickness: 1 mm
  - Wall Line Count: 2
  - Top/Bottom Thickness: 0.8 mm
  - Top Thickness: 0.8 mm
  - Top Layers: 6
  - Bottom Thickness: 0.6 mm
  - Bottom Layers: 4
  - Horizontal Expansion: 0 mm
- Infill**
  - Infill Density: 90 %
  - Infill Pattern: Lines
- Material**
  - Printing Temperature: 210.0 °C
- Speed**
  - Print Speed: 50.0 mm/s
- Travel**
  - Enable Retraction:

< Recommended

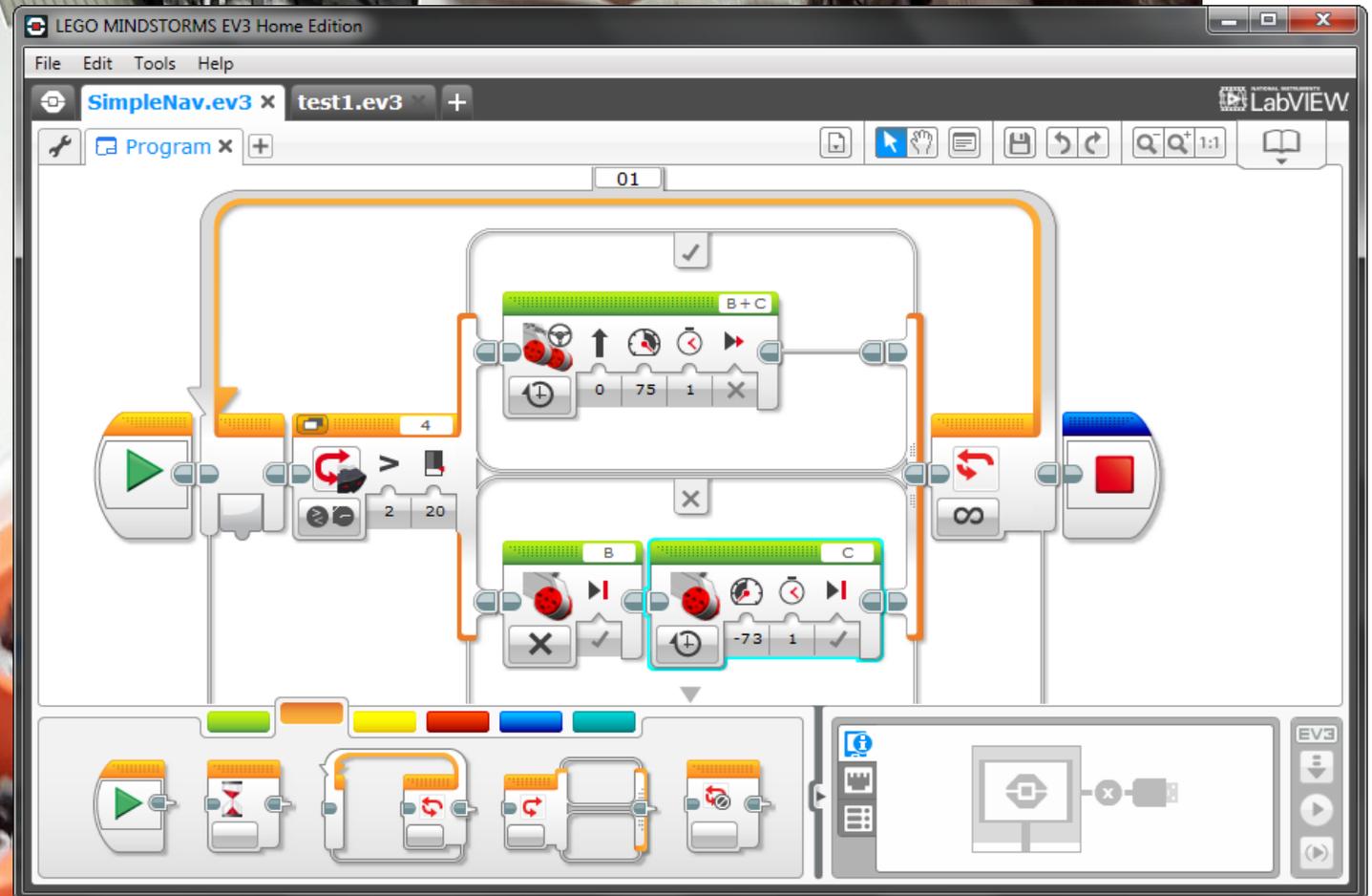


Programmierung  
einer Webseite mit  
HTML und CSS

```
Informatik.htm - Notepad
File Edit Format View Help
<!DOCTYPE html>
<HTML>
<HEAD>
  <TITLE> Informatik </TITLE>
  <!-- author: Marco Alt -->
</HEAD>
<BODY>
<H1> Eine Testseite für INFORMATIK als Wahlpflichtfach für die Klassen 9R bis 10R </H1>
<P> Hier könnte man jetzt eine Menge guter Gründe auflisten... </P>
</BODY>
```



# LEGO MINDSTORMS



Was brauche ich, um im Informatikunterricht gut zu sein?

**Durchhaltevermögen**

**Interesse an Technik**

**Künstlerische Fähigkeiten**

**Selbstständigkeit**

**Mathematisches Verständnis**

**Teamfähigkeit**