

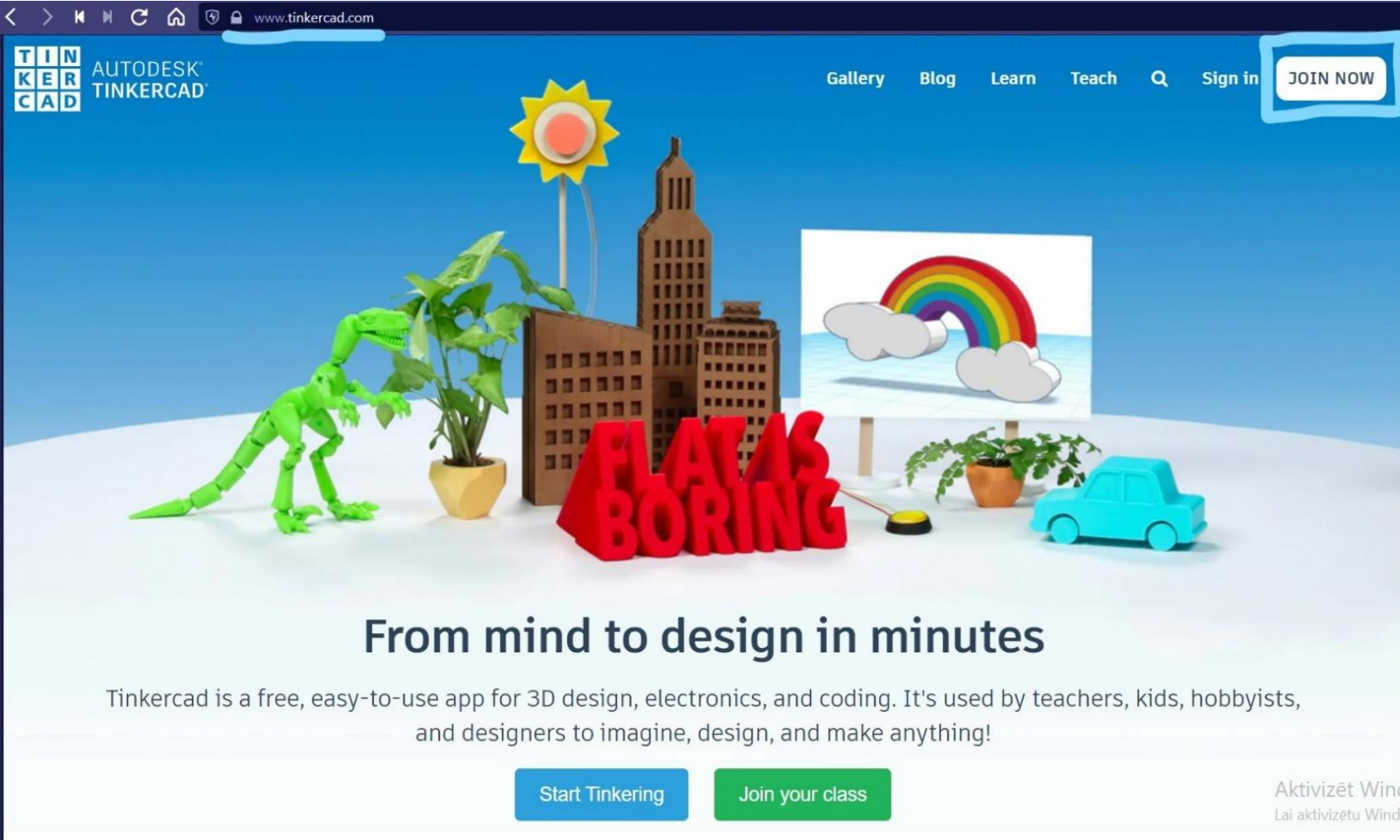
# Tinkercad

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IEMĀCĪSIMIES LIETOT 'TINKERCAD'

spiežam  
«JOIN NOW».

Ja esat jau reģistrējies spiežat «Sign in».



www.tinkercad.com

TINKERCAD AUTODESK TINKERCAD

Gallery Blog Learn Teach Q Sign in JOIN NOW

**PLAY IS BORING**

**From mind to design in minutes**

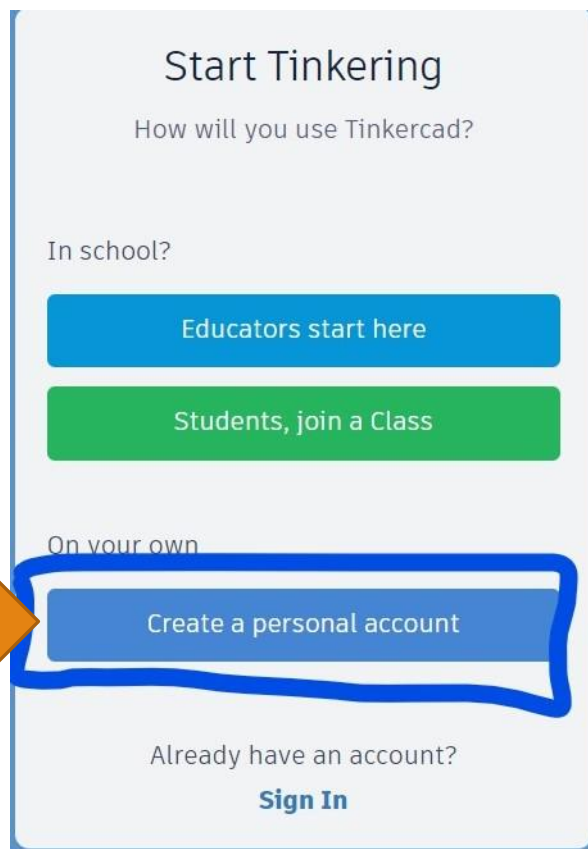
Tinkercad is a free, easy-to-use app for 3D design, electronics, and coding. It's used by teachers, kids, hobbyists, and designers to imagine, design, and make anything!

Start Tinkering Join your class

Aktivizēt Window  
Lai aktivizētu Window

# Nākošais solis ir izveidot privāto kontu

1.



Start Tinkering  
How will you use Tinkercad?

In school?

Educators start here

Students, join a Class

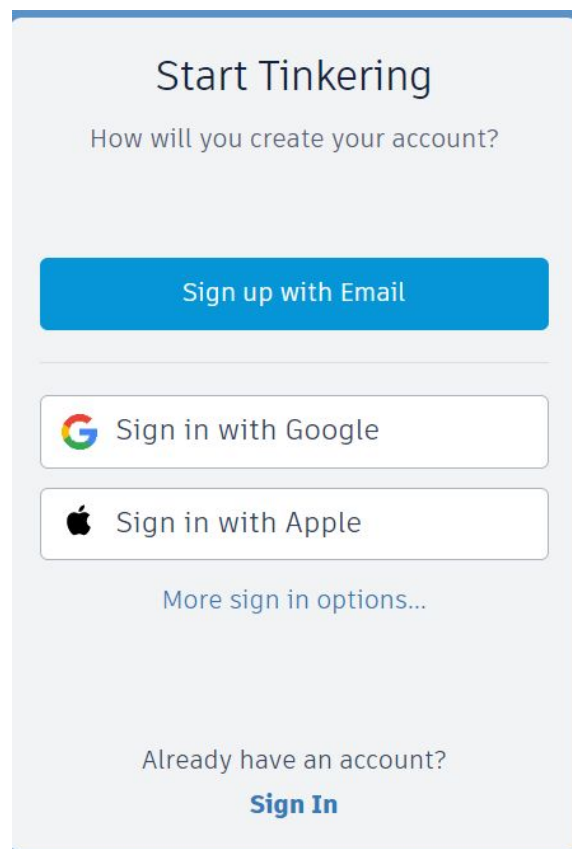
On your own

Create a personal account

Already have an account?  
**Sign In**

An orange arrow points to the 'Create a personal account' button, which is also highlighted with a blue hand-drawn border.

2.



Start Tinkering  
How will you create your account?

Sign up with Email

Sign in with Google

Sign in with Apple

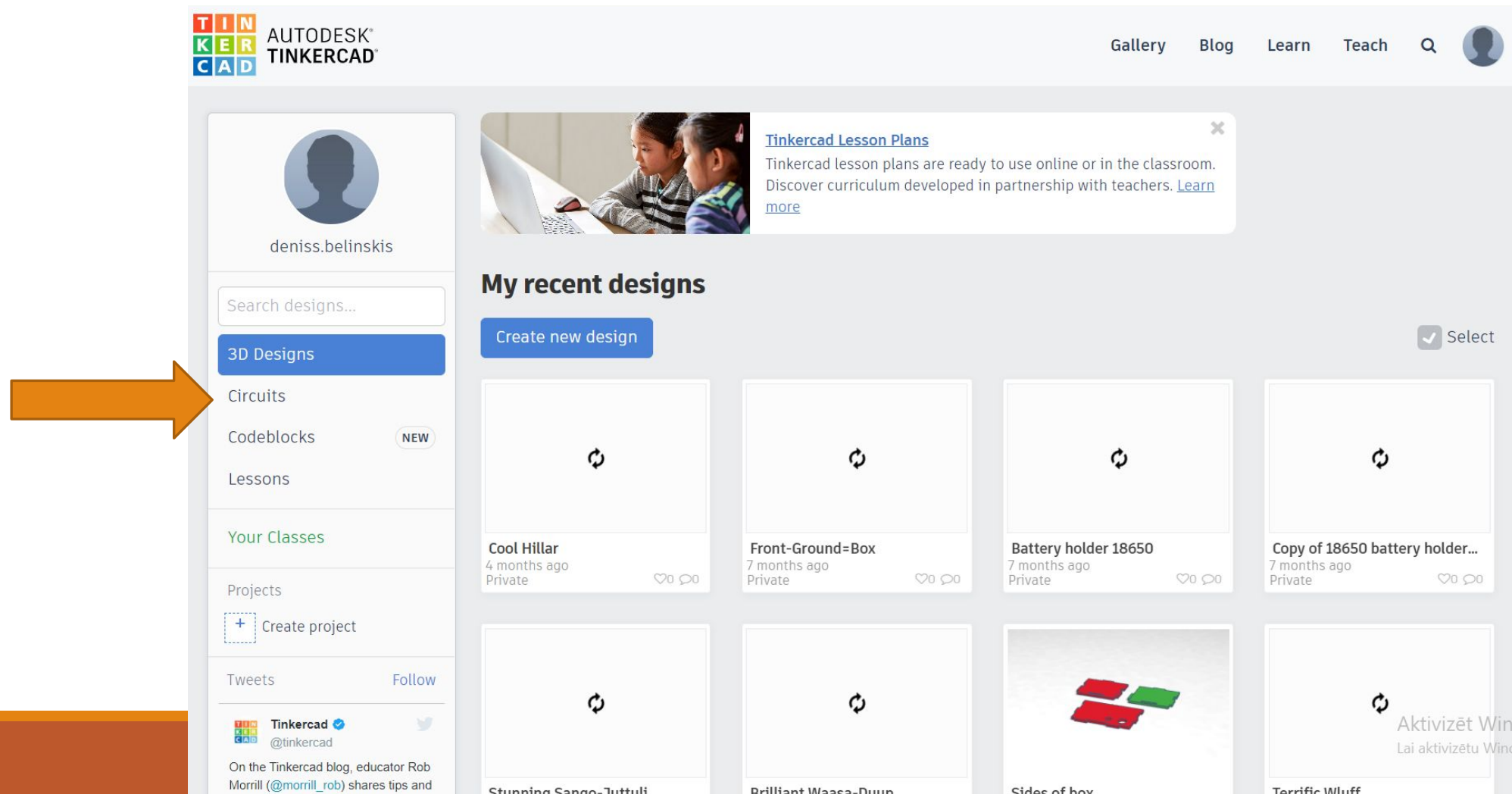
More sign in options...

Already have an account?  
**Sign In**

Ja jums ir google kots vai apple kots varat izvēlēties attiecošos, citādi izvēlaties pirmo izvēli.

Tad ievadīsiet visus nepieciešamos datus, kurus pieprasīs mājaslapa.

# Mēs vēlamies darboties ar Arduino, tad izvēlamies «Circuits»

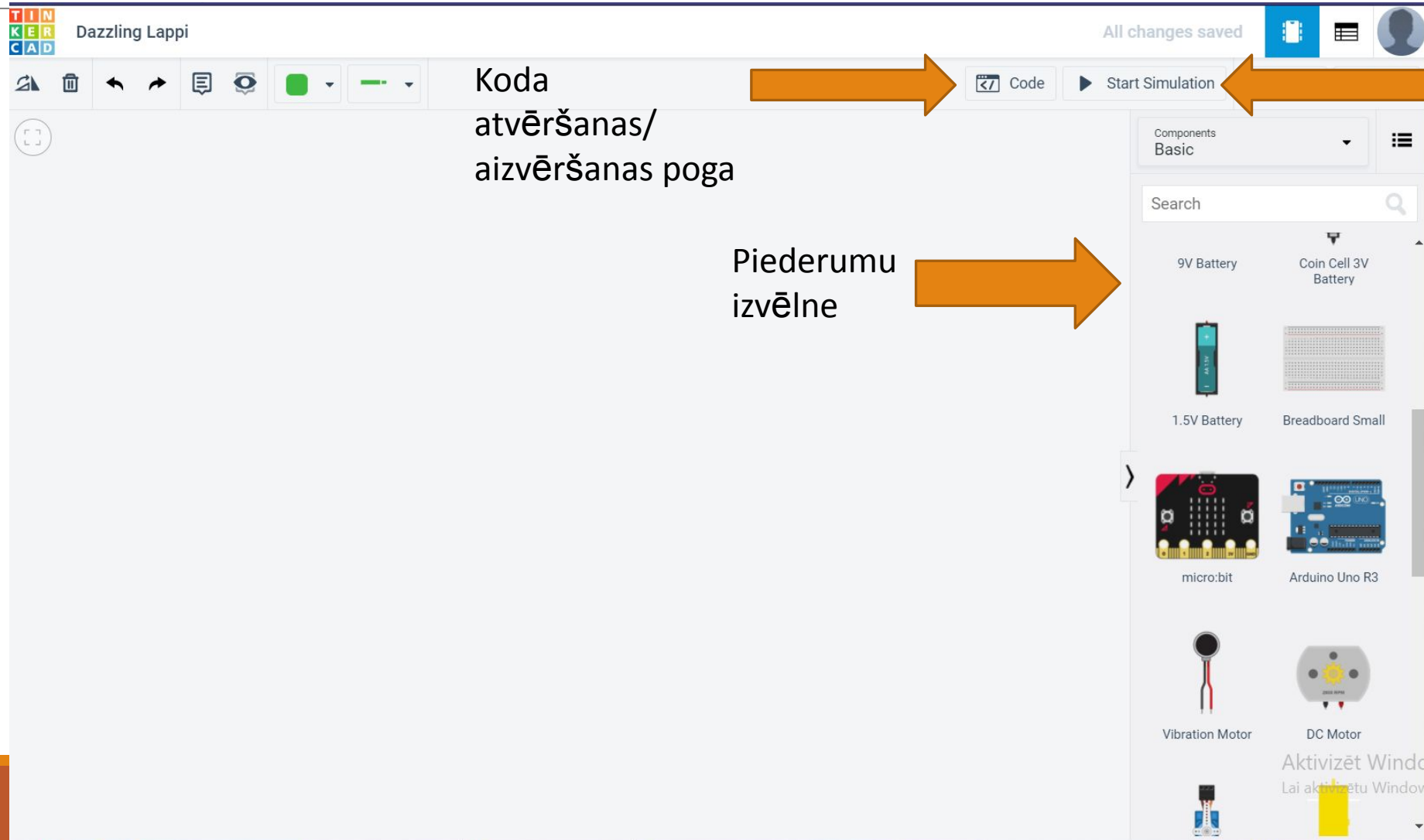


The image shows a screenshot of the Tinkercad web application interface. At the top left is the Tinkercad logo (TINKERCAD) and the Autodesk logo. The top right navigation bar includes links for 'Gallery', 'Blog', 'Learn', 'Teach', a search icon, and a user profile icon. The main content area is divided into a left sidebar and a main workspace. The sidebar contains a user profile for 'deniss.belinskis', a search bar for designs, and a list of design categories: '3D Designs' (highlighted with an orange arrow), 'Circuits', 'Codeblocks' (marked 'NEW'), and 'Lessons'. Below these are sections for 'Your Classes', 'Projects' (with a 'Create project' button), and 'Tweets' (showing a tweet from Tinkercad). The main workspace is titled 'My recent designs' and features a 'Create new design' button and a 'Select' checkbox. It displays a grid of design thumbnails, each with a refresh icon and a title: 'Cool Hillar' (4 months ago, Private), 'Front-Ground=Box' (7 months ago, Private), 'Battery holder 18650' (7 months ago, Private), 'Copy of 18650 battery holder...', 'Stunning Sango-Juttuli', 'Brilliant Waasa-Duun', 'Sides of box', and 'Terrific Wluff'. A partially visible tweet at the bottom right says 'Aktivizēt Wind... Lai aktivizētu Wind...'

# Tad spiežam «Create new Circuit»

The screenshot displays the Tinkercad website interface. At the top left is the logo for Tinkercad, which is part of Autodesk, with the text 'TINKERCAD' and 'AUTODESK' below it. To the right of the logo are navigation links: 'Gallery', 'Blog', 'Learn', 'Teach', a search icon, and a user profile icon. Below the navigation is a user profile section for 'deniss.belinskis' with a search bar for designs and a list of categories: '3D Designs', 'Circuits' (highlighted in blue), 'Codeblocks' (marked 'NEW'), and 'Lessons'. Below this is a 'Your Classes' section with a 'Projects' subsection containing a '+ Create project' button. At the bottom of the sidebar is a 'Tweets' section with a 'Follow' button and a tweet from 'Tinkercad' (@tinkercad) mentioning an educator. The main content area features a 'Tinkercad Lesson Plans' notification, a 'Circuits' section with a 'Create new Circuit' button (pointed to by an orange arrow), and a 'Try Circuits' button below an image of electronic components. A 'Select' checkbox is visible on the right side of the main content area.

# Esam konstruēšanas vidē



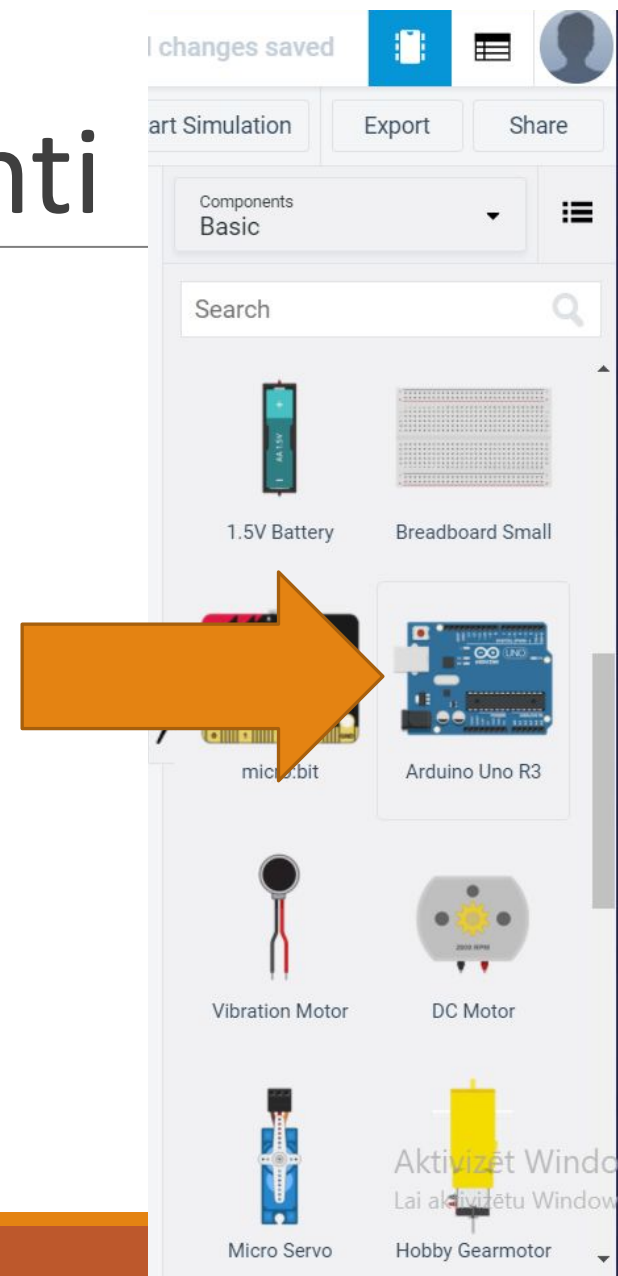
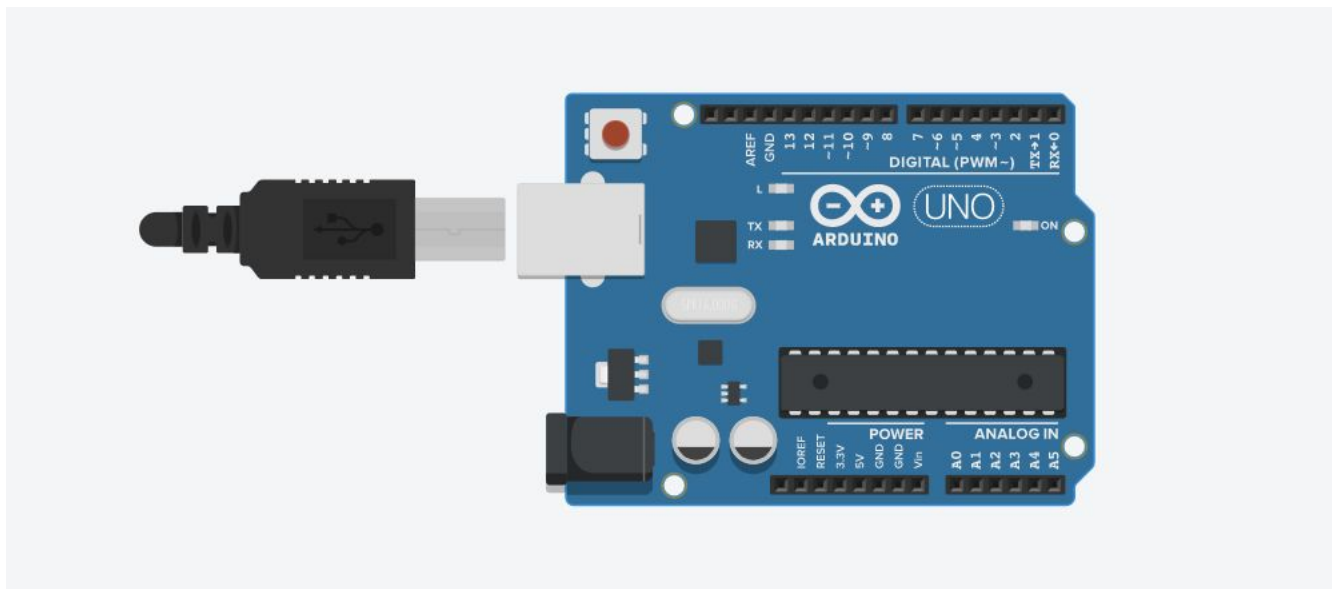
Koda atvēršanas/  
aizvēršanas poga

Piederumu izvēlne

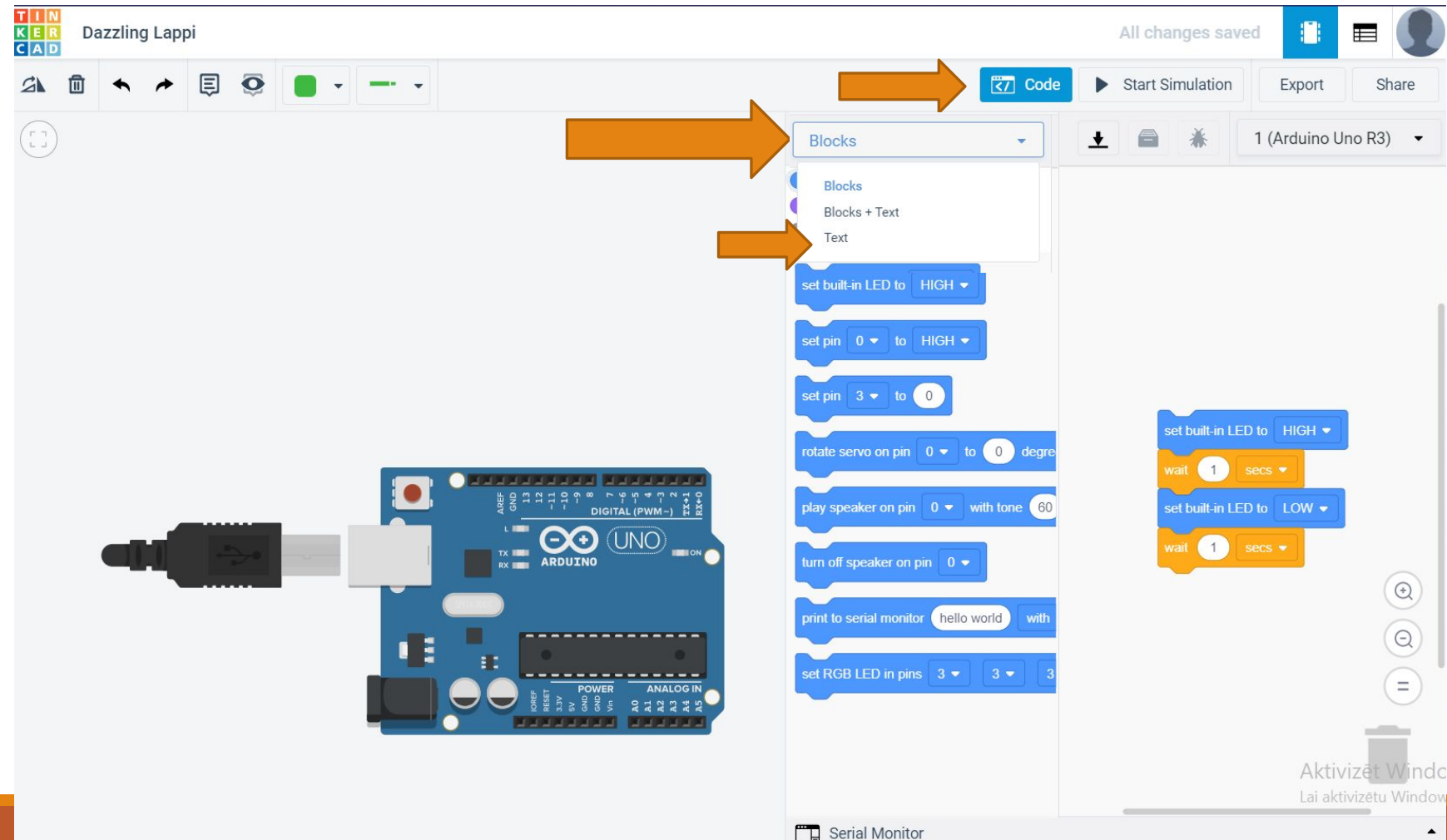
Simulācijas startēšanas poga

# Pievienosim komponenti

1. Uzspiežam uz vēlamo komponenti un atlaižam peles pogu.
2. Pārvietojam kursoru uz balto laukumu.
3. Novietojam komponenti vēlamajā vietā.



# Atveram sadaļu «Code», tad izvēlamies attiecīgajā izvēlē tikai «Text».



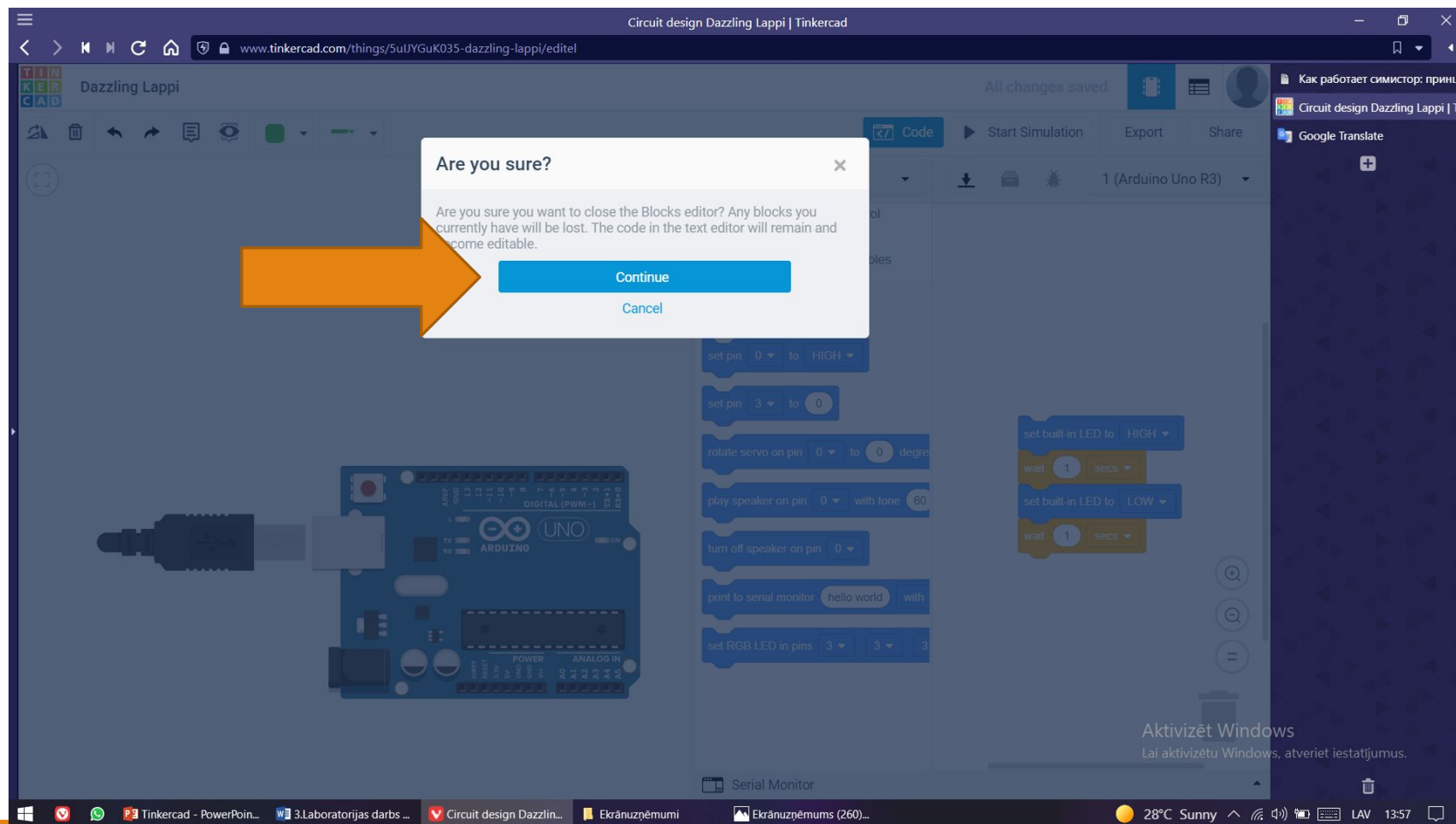
The screenshot displays the Arduino IDE interface. At the top, the user's name 'Dazzling Lappi' is visible. The 'Code' tab is selected, and the 'Start Simulation' button is active. The 'Blocks' palette is open, showing the 'Text' block selected. The main workspace contains a 3D model of an Arduino Uno R3 board with a USB Type-C cable connected. The code editor shows the following blocks:

- set built-in LED to HIGH
- set pin 0 to HIGH
- set pin 3 to 0
- rotate servo on pin 0 to 0 degree
- play speaker on pin 0 with tone 60
- turn off speaker on pin 0
- print to serial monitor hello world with
- set RGB LED in pins 3 3 3

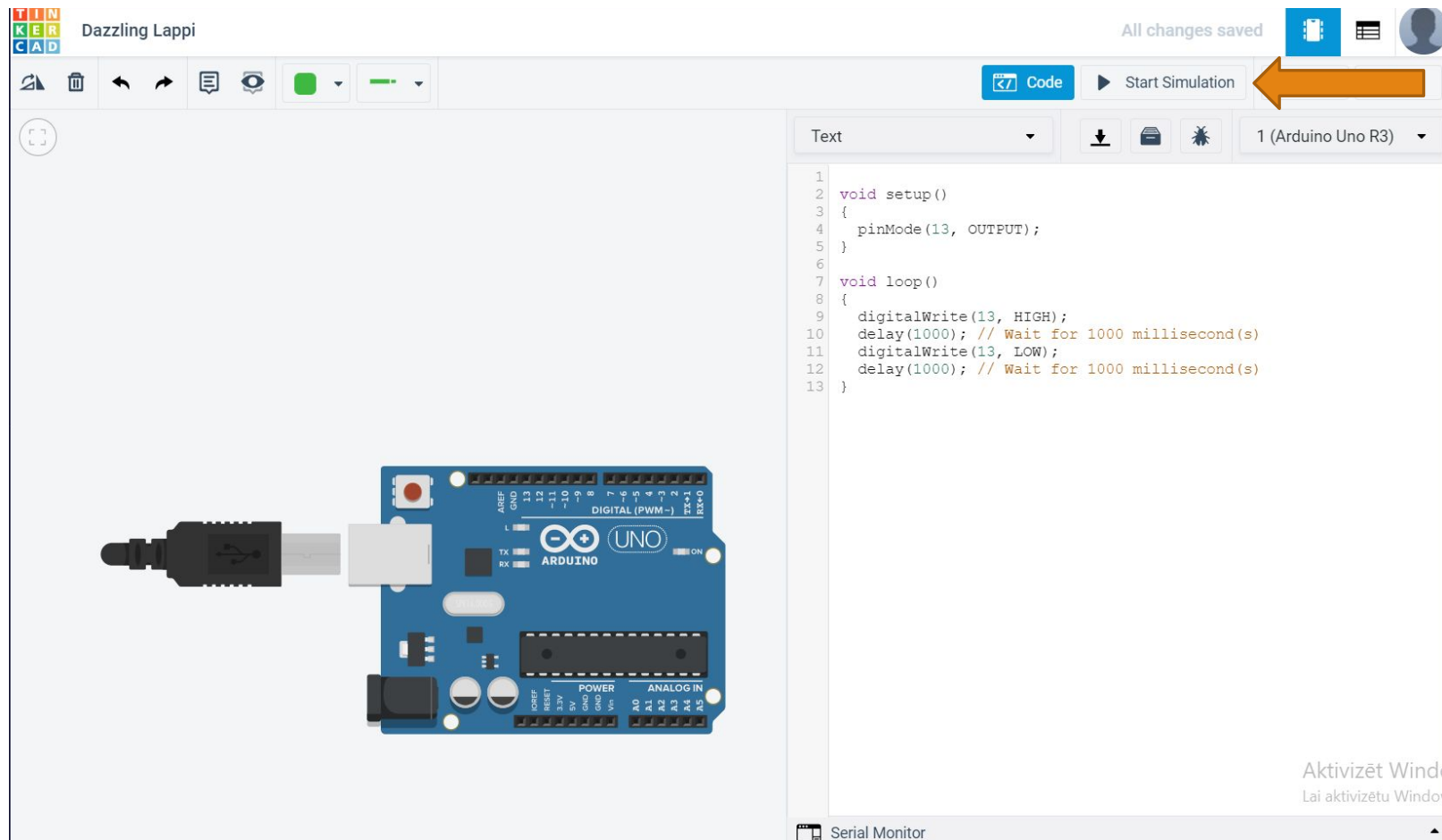
At the bottom, the 'Serial Monitor' tab is visible. The Windows taskbar at the bottom right shows the 'Aktivizēt Windo' (Activate Windows) watermark.



# Spiežam «Continue»



# Varam palaist simulāciju «Gaismas diodes L mirgošana»

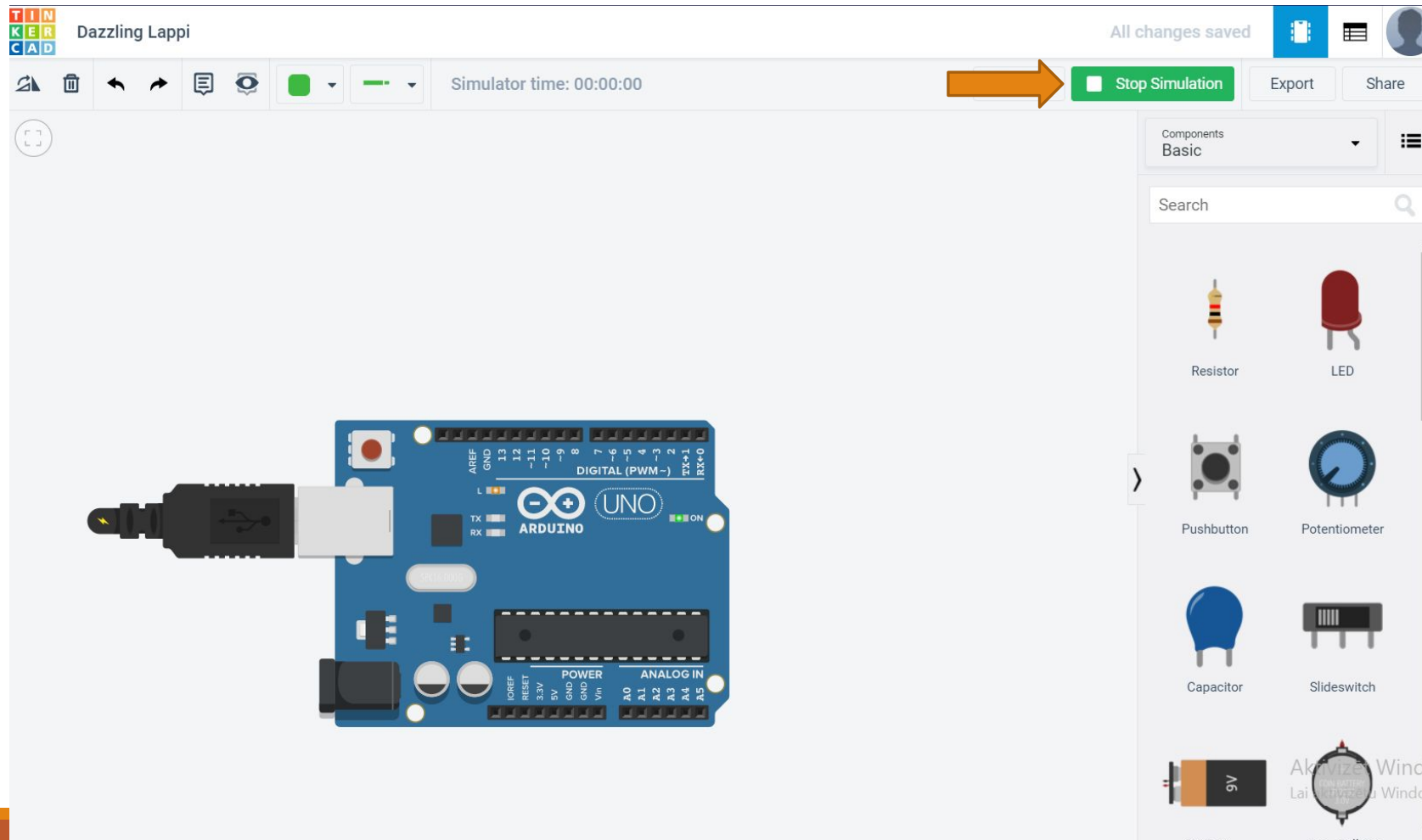


The screenshot displays the TinkerCAD web interface. At the top, the user's name 'Dazzling Lappi' and the status 'All changes saved' are visible. The main workspace contains a 3D model of an Arduino Uno R3 board with a USB Type-C cable connected. To the right, a code editor window is open, showing the following C++ code for a blink sketch:

```
1 void setup()
2 {
3   pinMode(13, OUTPUT);
4 }
5
6
7 void loop()
8 {
9   digitalWrite(13, HIGH);
10  delay(1000); // Wait for 1000 millisecond(s)
11  digitalWrite(13, LOW);
12  delay(1000); // Wait for 1000 millisecond(s)
13 }
```

Below the code editor, a 'Serial Monitor' window is partially visible. In the top right corner of the interface, an orange arrow points to the 'Start Simulation' button, which is used to begin the virtual execution of the code on the Arduino board.

# Kamēr simulācija darbojas, nekādas izmaiņas veikt nevar, kamēr tā netiks apstādināta.



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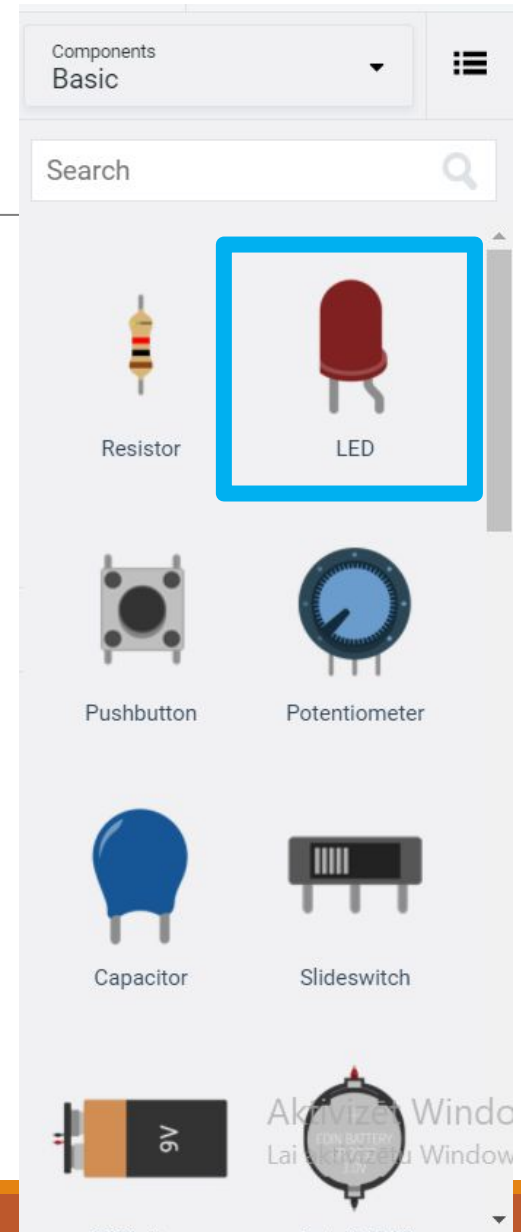
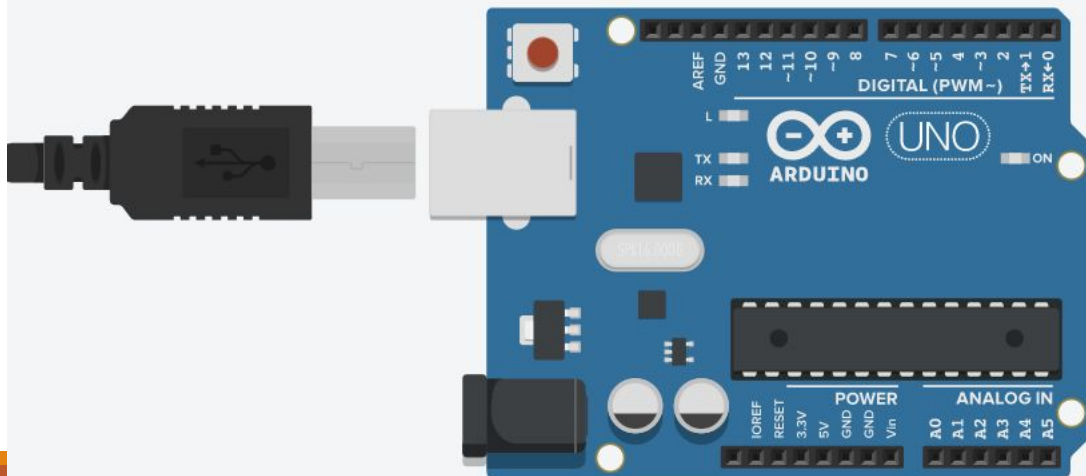
PIEMĒRS

# Pievienosim gaismas diodi

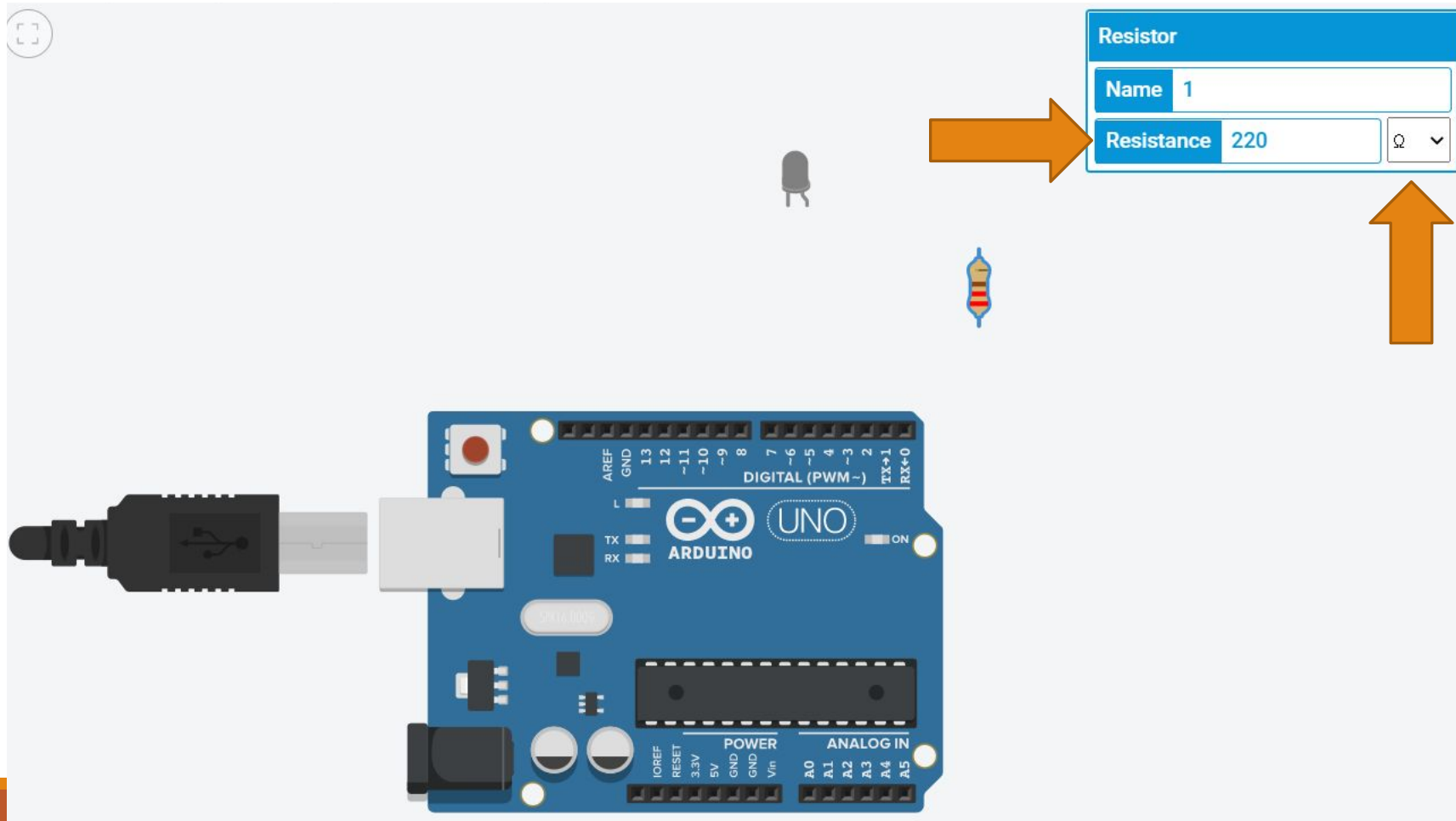
Katrai komponentei var dot savu vārdu un mainīt parametrus, kā gaismas diodei krāsu.



LED	
Name	2
Color	Red
	Green
	Yellow
	Orange
	Blue
	Red
	White

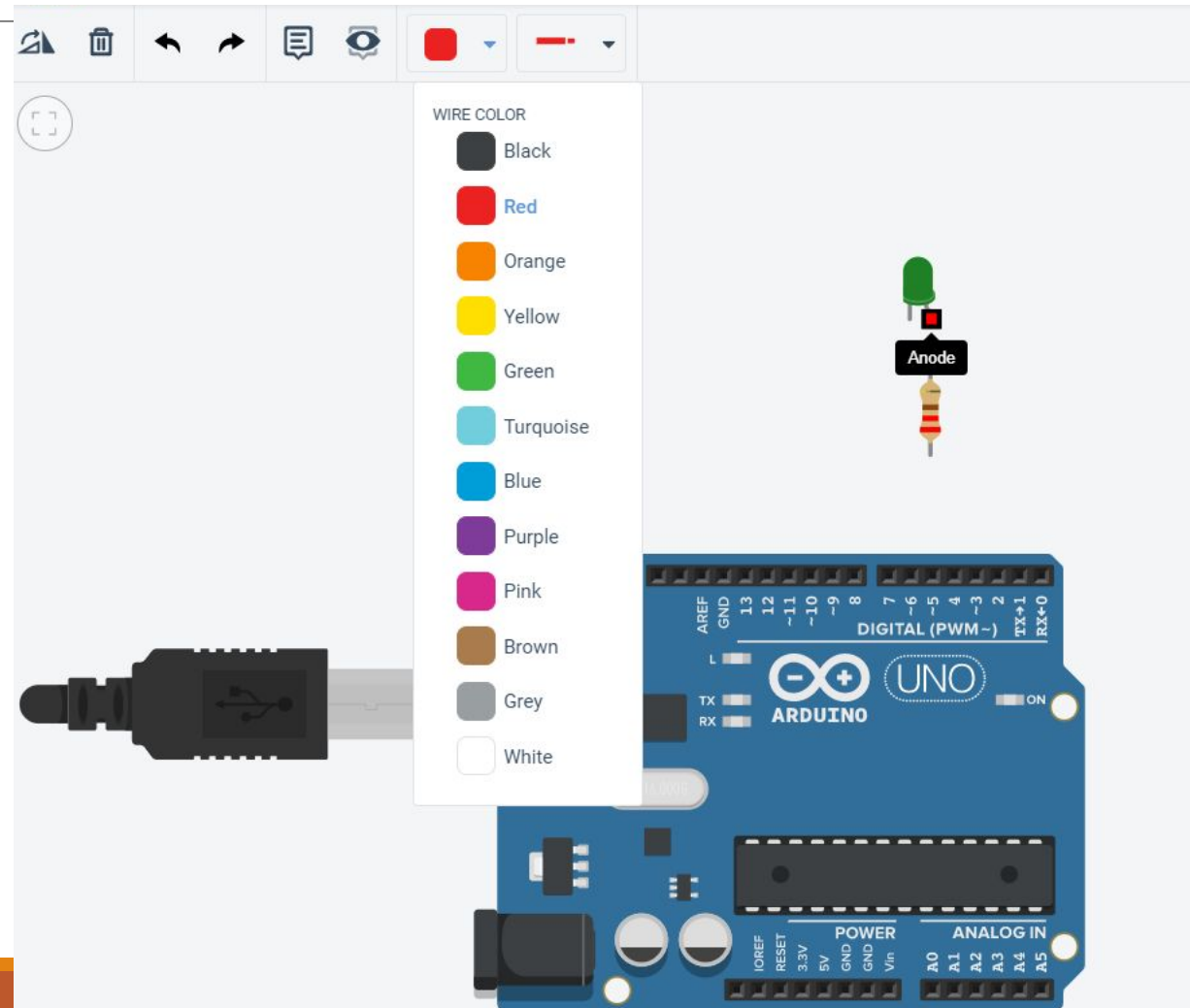


Tā pat kā mēs darbojamies ar gaismas diodi izmantosim rezistoru tikai iestatām uz 220ohm pretestību.



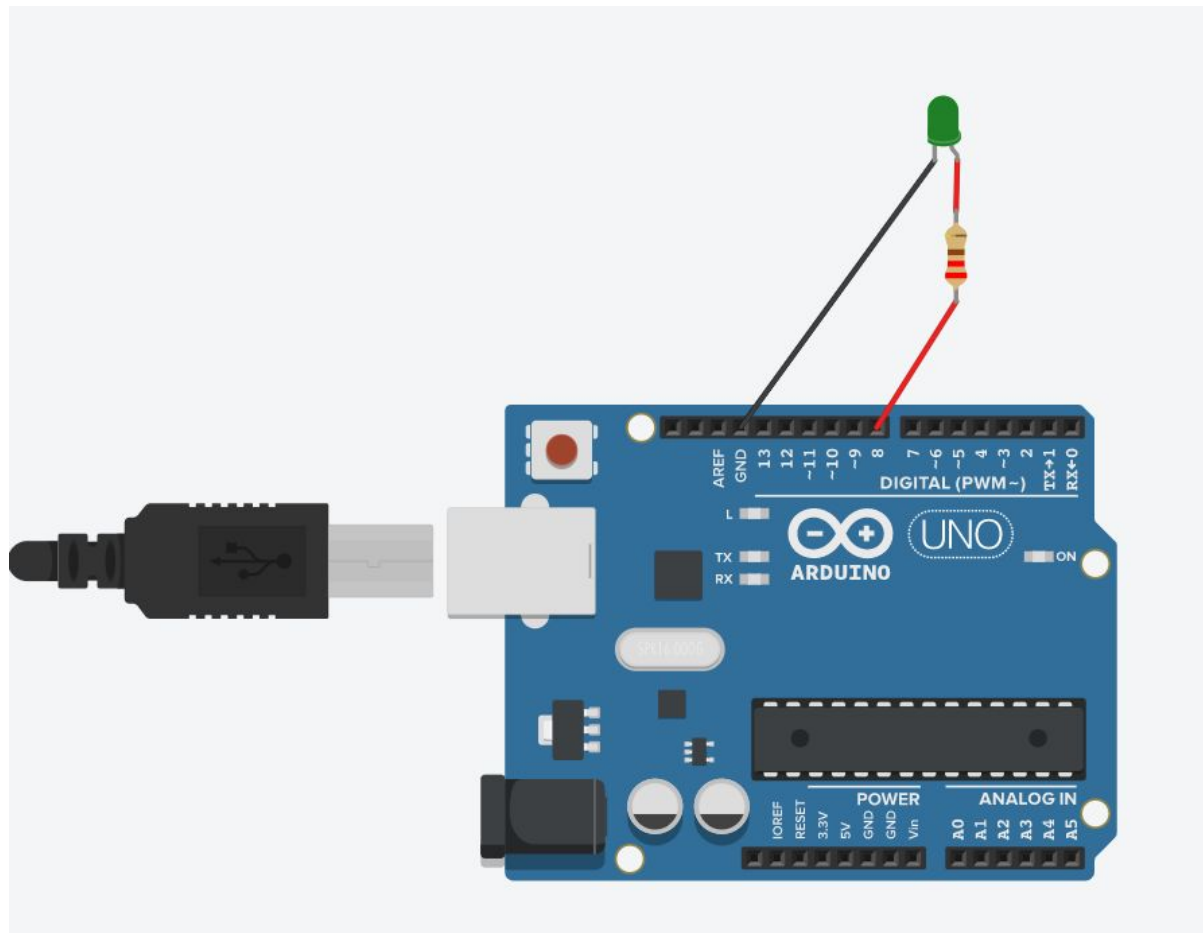
# Nākošais solis ir nepieciešams savienot izvadus.

Izvēlamies vada krāsu un pielieciet kursoru pie komponentes izvada, kad parādās sarkans kvadrāts varat nospiegt peles pogu, tad pielikt vadu pie rezistora līdz būs redzams tāds pats kvadrāts, tad nospiežot jūs izveidojāt savienojumu.



# Ar iegūtajām iemaņām var izveidot šādu slēgumu

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# Pielabojam kodu

---

```
void setup()
{
  pinMode(8, OUTPUT);
}

void loop()
{
  digitalWrite(8, HIGH);
  delay(1000); // Wait for 1000 millisecond(s)
  digitalWrite(8, LOW);
  delay(1000); // Wait for 1000 millisecond(s)
}
```

---

Palaižam simulāciju, ja viss darbojas korekti, tad esat veikuši uzdevumu.

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Paldies par uzmanību!

Ja ir jautājumi rakstiet Whatsapp.