

AUTODESK® TINKERCAD™ TINKERCAD™

Basic Usage Instructions

1204 Digital Circuits Design Lab

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Department of Information and Electronic Engineering

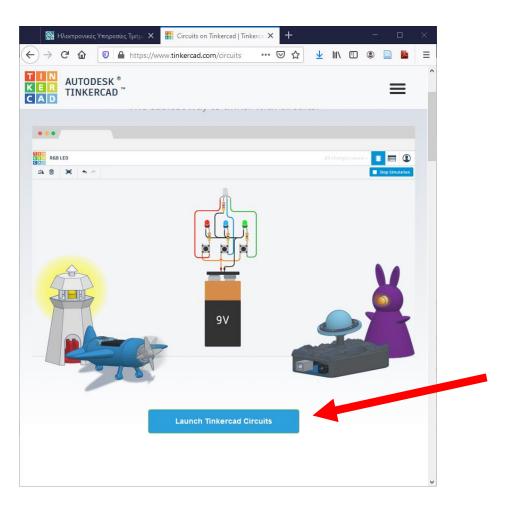
International Hellenic University





Step 1: Connect to Website

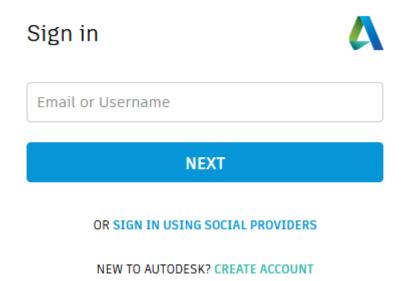
- Navigate to https://www.tinkercad.com/circuits
- Hit "Launch Tinkercad Circuits".





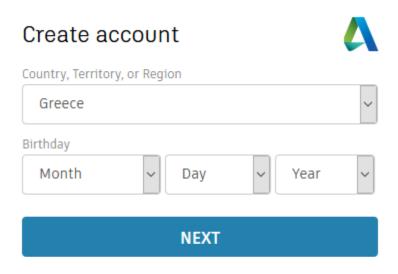
Step 2: Create Account / Sign In

- Choose CREATE ACCOUNT to create an AutoDesk account.
- Choose **SIGN IN USING SOCIAL PROVIDERS** to login with your Facebook/Google/Microsoft/Yahoo credentials.





Step 2: Create Account 1/4

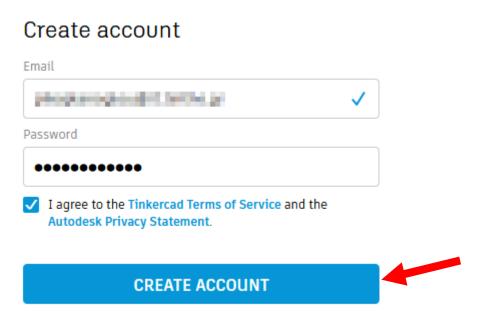


ALREADY HAVE AN ACCOUNT? SIGN IN



Step 2: Create Account 2/4

- Create a sufficiently strong password and the click CREATE ACCOUNT
- You will receive a verification e-mail from AutoDesk.

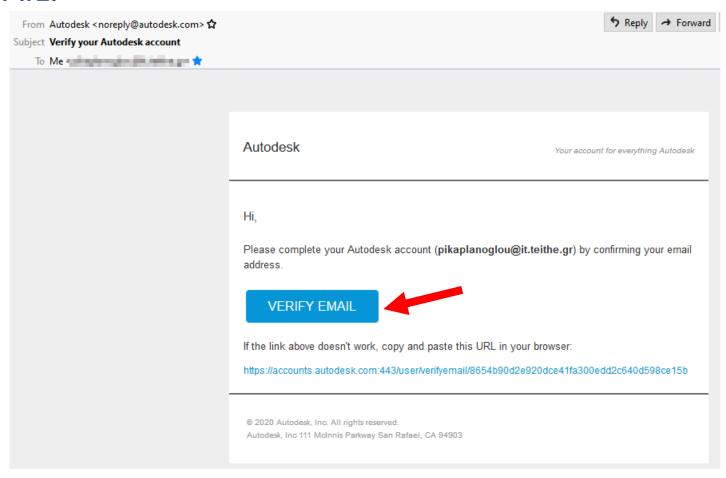


ALREADY HAVE AN ACCOUNT? SIGN IN



Step 2: Create Account 3/4

 On the e-mail message you have received click VERIFY EMAIL.





Step 2: Create Account 4/4

Account created

This single account gives you access to all your Autodesk products















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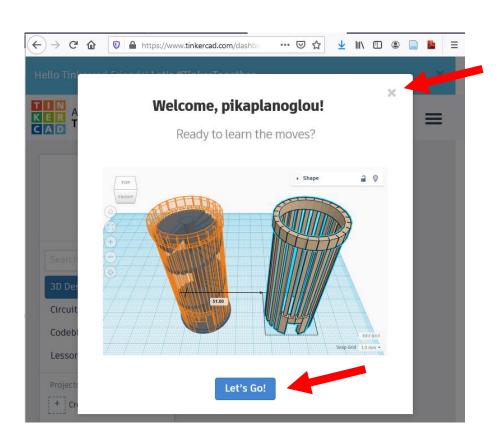
DONE





Basic Usage – Welcome Tutorial

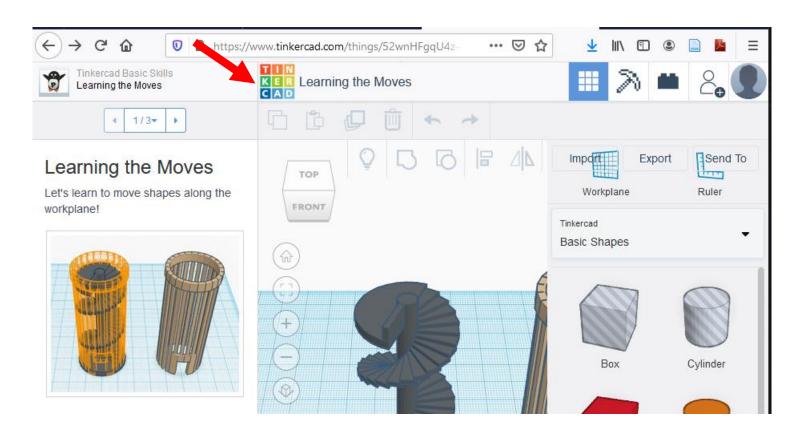
 You may follow or skip this initial tutorial on the use of Tinkercad.





Basic Usage – Go To Dashboard

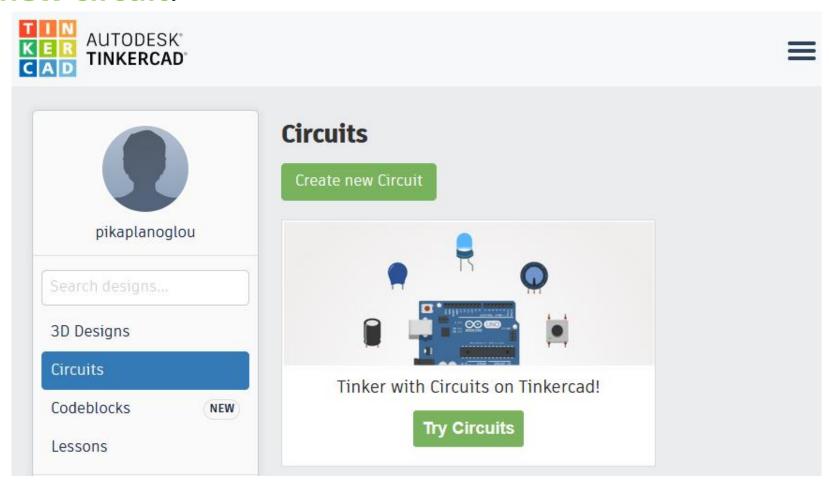
 Click the application logo on any page to return to the dashboard.





Basic Usage – Create new Circuit

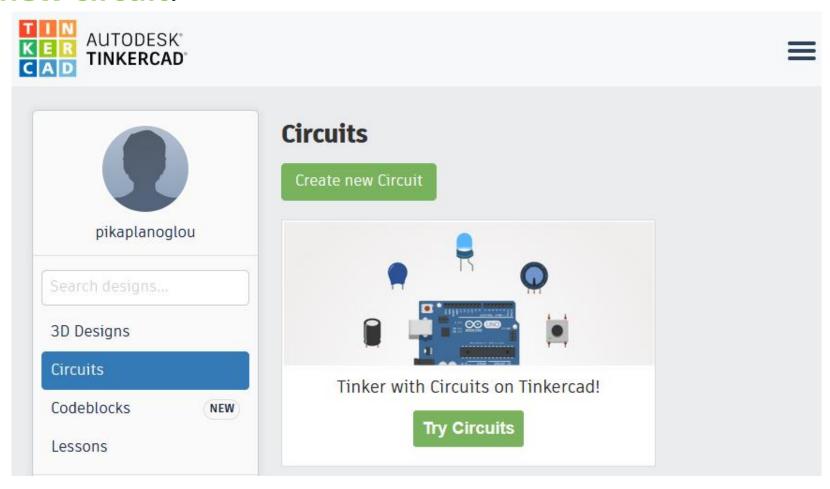
 From the dashboard click on Circuits and then Create new circuit.





Basic Usage – Create new Circuit

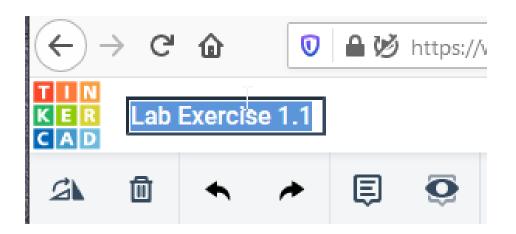
 From the dashboard click on Circuits and then Create new circuit.





Exercise: Name your Circuit (1/7)

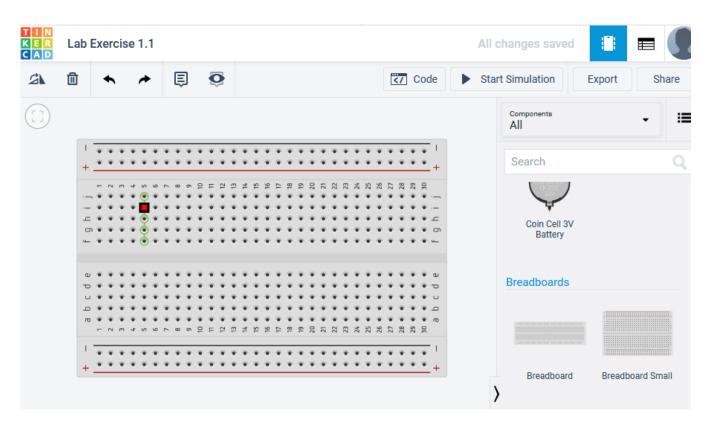
 Rename your circuit by clicking on its name. Give the proper name depending on the exercise you are asked to perform, e.g. Lab Exercise 1.1.





Exercise: Adding a raster (2/7).

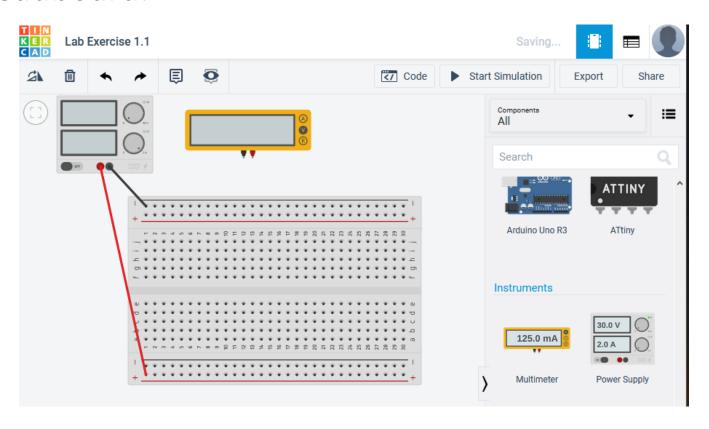
 Choose to view "All" components. Scroll to Breadboards and add a "Breadboard Small". You can zoon in/out using the mouse wheel.





Exercise: Adding instruments (3/7).

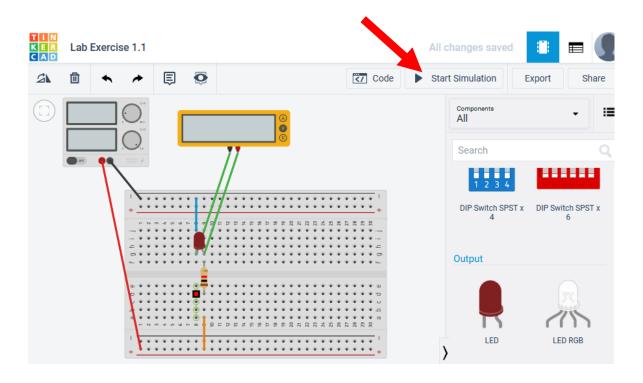
 Scroll to Instruments and add a "Multimeter and a Power Supply" connect the power supply to the breadboard.





Exercise: Creating a simple circuit (4/7)

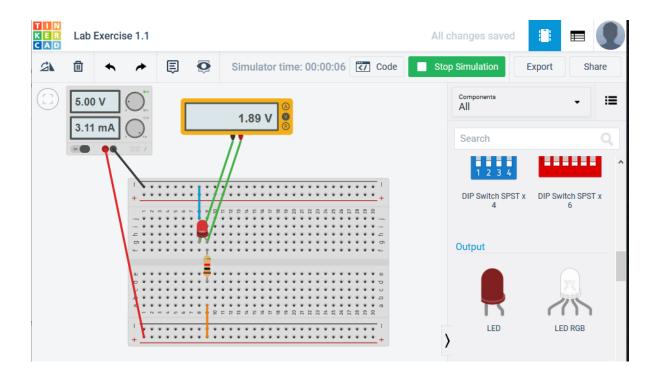
 Complete your circuit, connect your multimeter and press Start Simulation to record your measurements.





Exercise: Running the simulation (5/7)

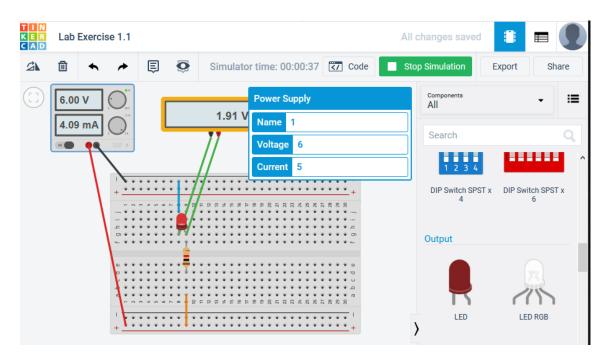
 When the simulation is running you will get a reading on the multimeter.





Exercise: Modify settings while running simulation (6/7).

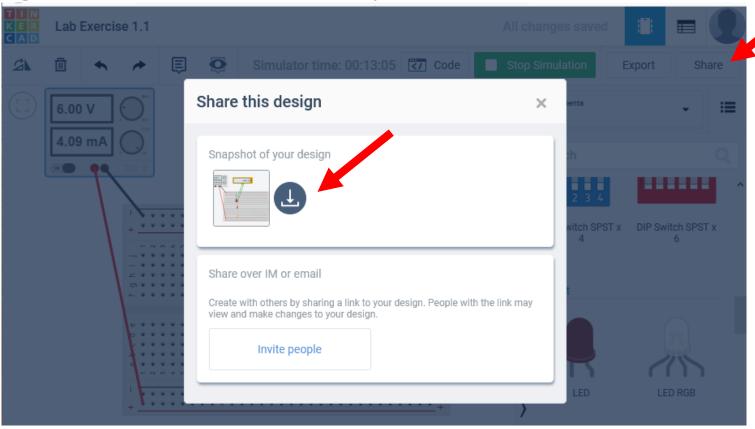
- During simulation you may change the power supply Voltage by typing the new value, e.g. 6 V.
- As you see the reading on the multimeter changes.





Exercise: Making a snapshot of your design (7/7).

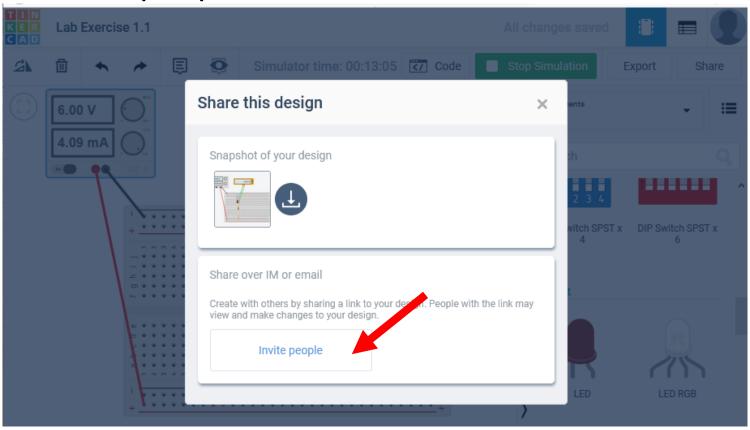
 When you are asked to do so, get a snapshot of your design, save it to disk and upload it on Moodle.





THU Sharing your design with the teacher (1/2)

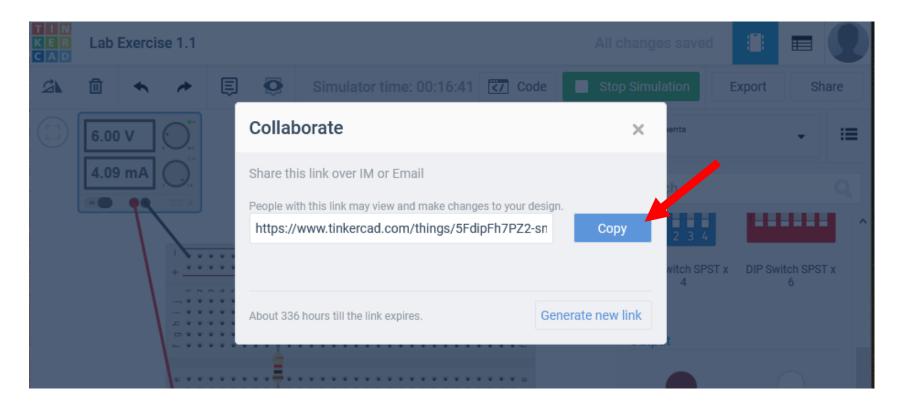
 The teacher can see your design and help you if you click "Invite people" and then ...





THU Sharing your design with the teacher (1/2)

 ... copy-paste the permalink in the proper place, that will be pointed out by the teacher.





See you at our virtual lab sessions!