類比電子電路實作

 $\bullet \bullet \bullet$

ANALOG ELECTRONIC CIRCUIT PRACTICES

2017 WEEK 1



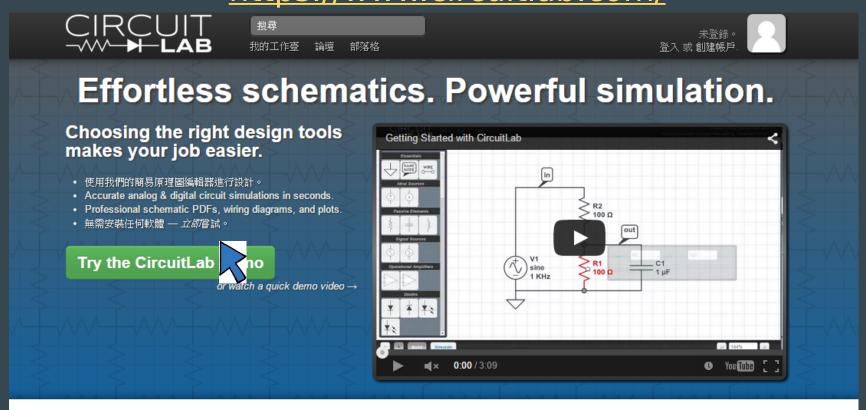
本周重點

- 了解 Circuit Lab 的基本使用方法
 - 拖拉元件
 - 更改電容值
 - 設立節點
 - 模擬電路



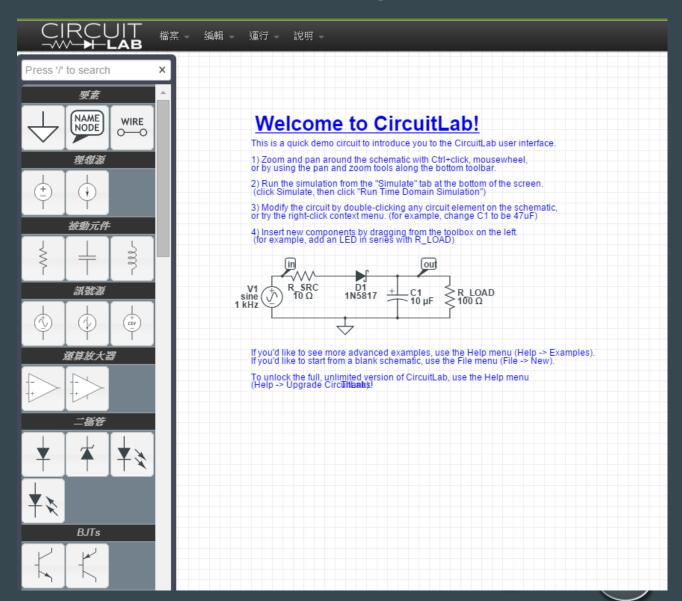
CIRCUIT LAB

https://www.circuitlab.com/

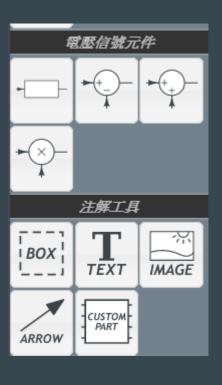


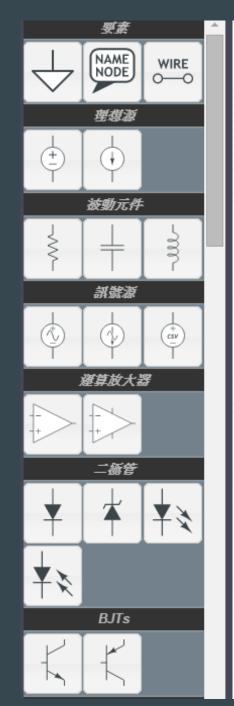


EDITOR

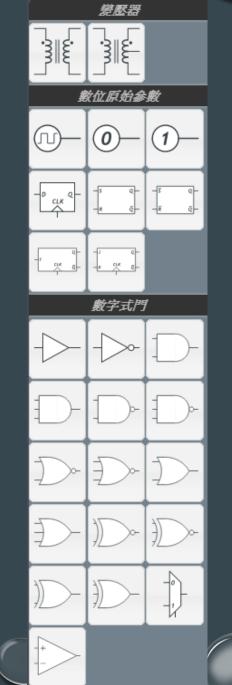


AVAILABLE

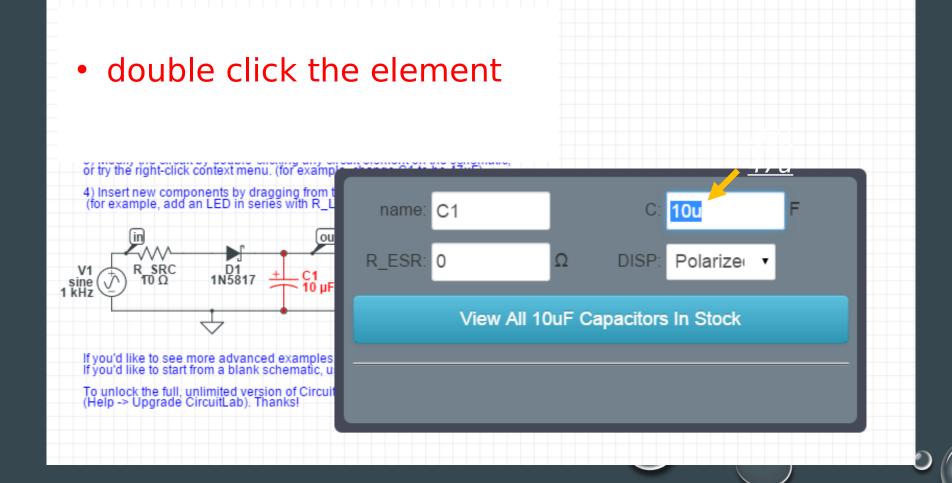














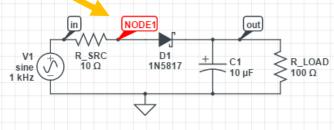
設立節點



Welcome to CircuitLab!

This is a quick demo circuit to introduce you to the CircuitLab user interface.

- Zoom and pan around the schematic with Ctrl+click, mousewheel, or by using the pan and zoom tools along the bottom toolbar.
- Run the simulation from the "Simulate" tab at the bottom of the screen.
 (click Simulate, then click "Run Time Domain Simulation")
- Modify the circuit by double-clicking any circuit element on the schematic, or try the right-click context menu. (for example, change C1 to be 47uF)
- Insert new components by dragging from the toolbox on the left.
 (for example, add an LED in series with R_LOAD)

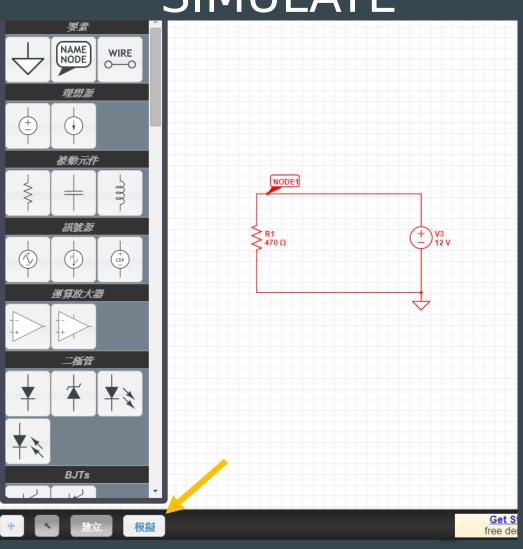


If you'd like to see more advanced examples, use the Help menu (Help -> Examples). If you'd like to start from a blank schematic, use the File menu (File -> New).

To unlock the full, unlimited version of CircuitLab, use the Help menu (Help -> Upgrade CircuitLab)hanks!



SIMULATE



SIMULATE

▼ 直流 (DC)

按一下任何電線或元件終端,測量電壓和電流。

♣ 新增表達式

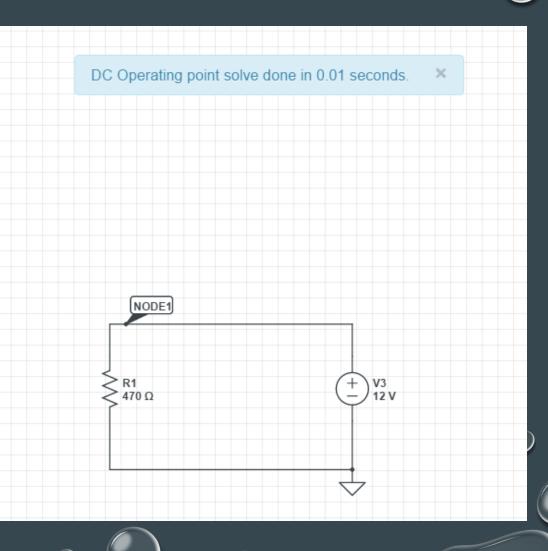
Export Results...

運行直流解算器

▶ 運行直流掃描 (DC Sweep)

▶ 時域

頻域





• 按下電線或元件終端,得知電壓與電



