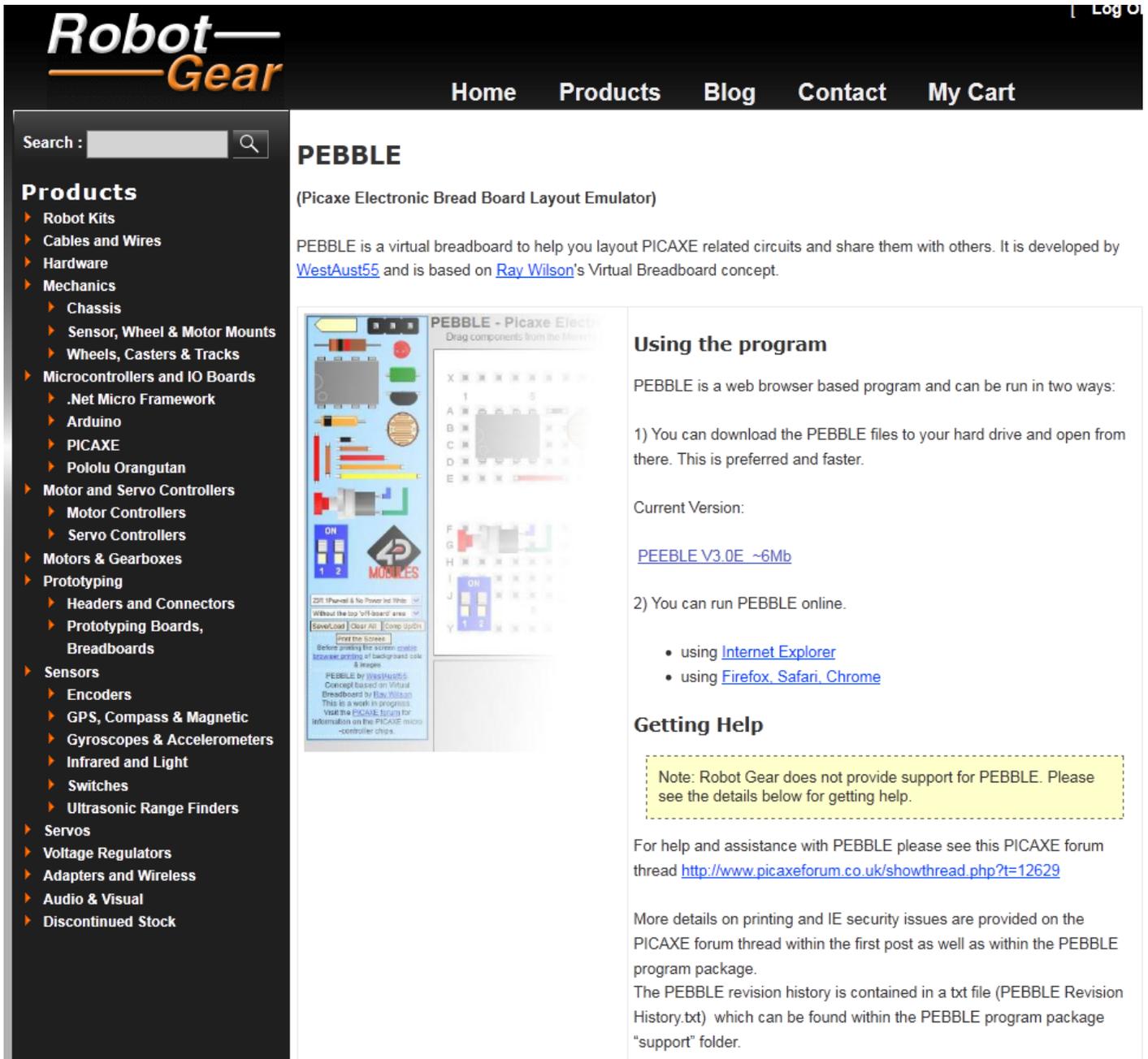


## Pebble – Picaxe Electronic Breadboard Layout Emulator

Pebble can be downloaded or run online from several sites, including:  
<http://www.robotgear.com.au/Article.aspx/Details?title=PEBBLE> (shown below)

If you are using it at home, it runs faster if you download and extract it.  
There are different versions for using Internet Explorer and Firefox.



**Robot Gear**

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### PEBBLE

(Picaxe Electronic Bread Board Layout Emulator)

PEBBLE is a virtual breadboard to help you layout PICAXE related circuits and share them with others. It is developed by [WestAust55](#) and is based on [Ray Wilson's](#) Virtual Breadboard concept.

**Using the program**

PEBBLE is a web browser based program and can be run in two ways:

- 1) You can download the PEBBLE files to your hard drive and open from there. This is preferred and faster.

Current Version:

[PEBBLE V3.0E ~6Mb](#)

- 2) You can run PEBBLE online.

- using [Internet Explorer](#)
- using [Firefox, Safari, Chrome](#)

**Getting Help**

Note: Robot Gear does not provide support for PEBBLE. Please see the details below for getting help.

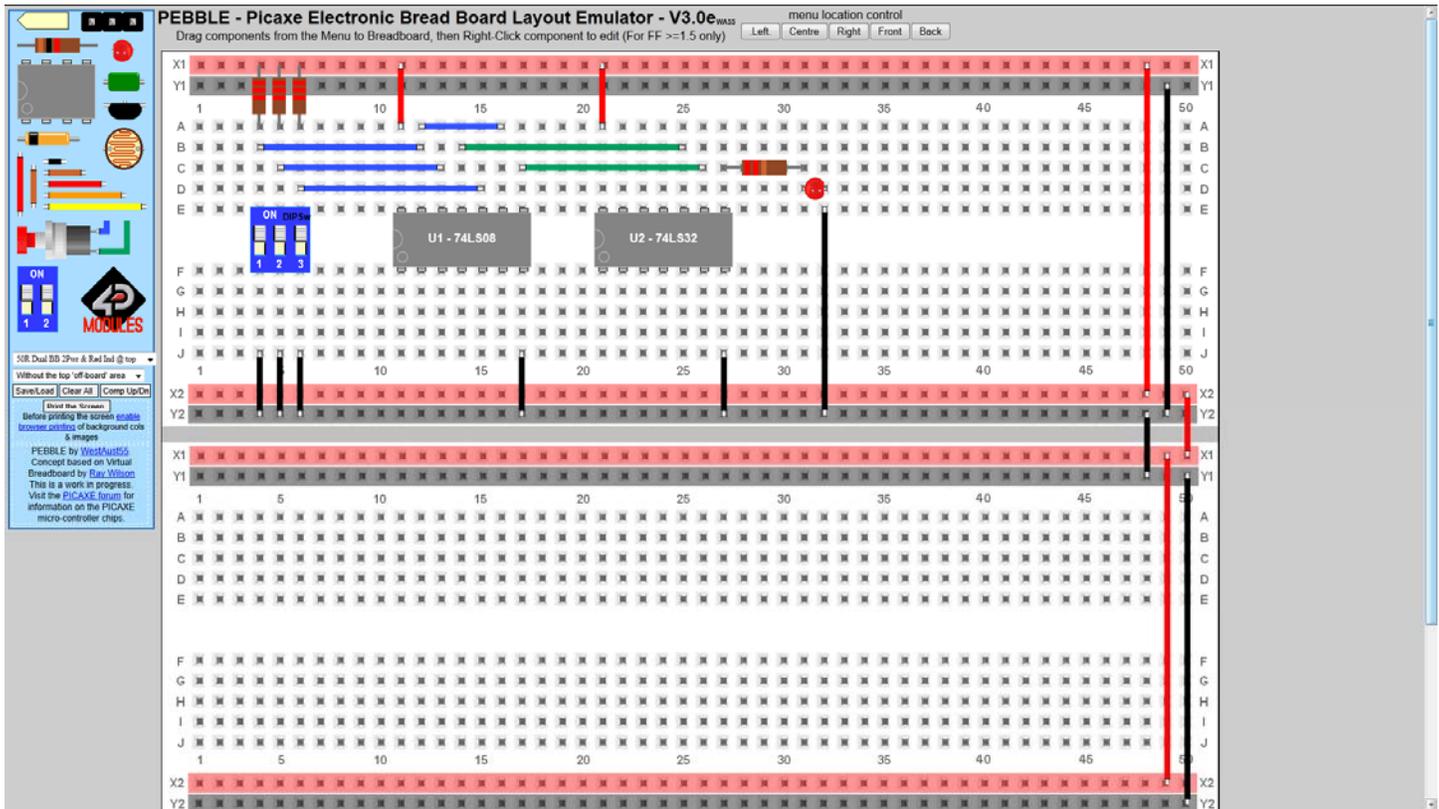
For help and assistance with PEBBLE please see this PICAXE forum thread <http://www.picaxeforum.co.uk/showthread.php?t=12629>

More details on printing and IE security issues are provided on the PICAXE forum thread within the first post as well as within the PEBBLE program package.

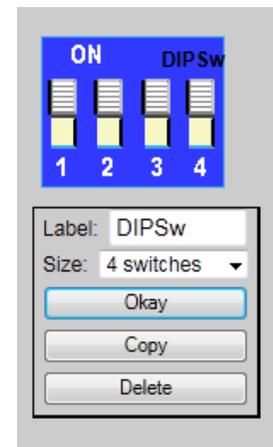
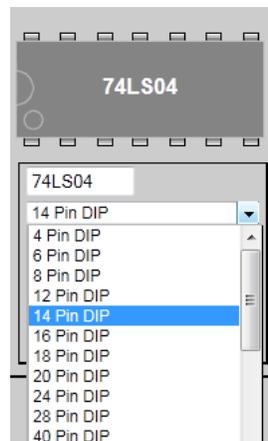
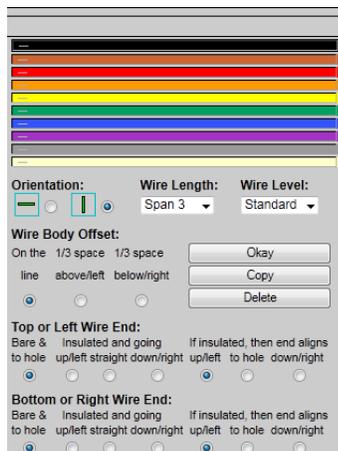
The PEBBLE revision history is contained in a txt file (PEBBLE Revision History.txt) which can be found within the PEBBLE program package "support" folder.

## Creating a breadboard layout

- Select the desired type of breadboard (Shown below is: 50R, Dual BB 2Pwr & Red Ind @ top)
- Select desired component then drag it to the desired location.



- Right-click on a component to change its properties. For example, the property boxes below appear if you right click on a wire, IC, resistor, or DIP switch.



## Saving a Breadboard Layout

- Select the Save/Load button
- Copy the instructions into NotePad and save for future use (Pebble Sample Program.txt in this case)

```
To Save: Copy and paste all text below into a text editor and save it.
To Load: Paste previously saved text into this text area and click "Load Circuit".

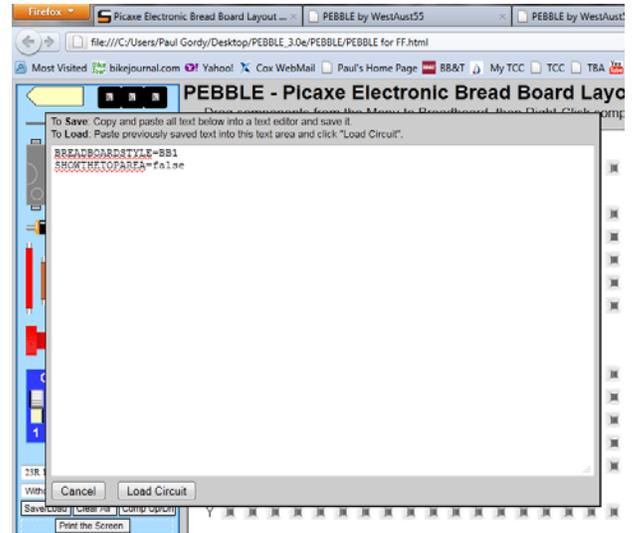
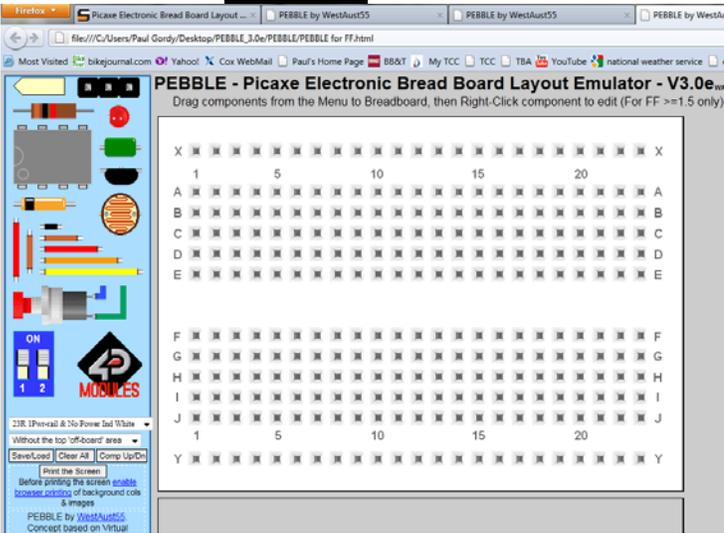
IC|256|732|1|MicroStamp11|U?||DIP20|IC|DIP20_1
IC|688|732|1|7-Segment Display LSD3221|U?||DIP14|IC|DIP14_1
Wire|47|17|21||11|#FF0000|16|11|10|
Wire|74|44|21||11|#000000|16|11|10|
Wire|1371|456|21||11|#FF0000|3|11|10|
Resistor|220|591|613|1|Resistor|R?|3||IC||
Wire|1317|484|21||11|#000000|3|11|10|
IC|40|842|1|USB2MCU|U?||DIP14|IC|DIP14_1
Wire|209|704|21||11|#3253FF|4|11|10|
Wire|211|674|11||11|#3253FF|2|11|10|
Wire|155|676|21||11|#3253FF|5|11|10|
Wire|157|647|11||11|#3253FF|5|11|10|
Wire|47|539|21||11|#FF0000|10|11|10|
Wire|74|566|21||11|#000000|9|11|10|
LED|0|103|636|3|LED|LED?|1||IC||led_13
Wire|101|539|21||11|#FF0000|3|11|10|
Wire|128|566|21||11|#000000|2|11|10|
Wire|479|539|21||11|#FF0000|3|11|10|
Wire|506|566|21||11|#000000|2|11|10|
Resistor|220|564|668|1|Resistor|R?|3||IC||
Wire|319|647|11||11|#FFFF00|10|11|10|
Wire|346|702|11||11|#FFFF00|8|11|10|
Wire|670|647|11||11|#FFFF00|7|11|10|
Wire|1371|566|21||11|#000000|16|11|10|
Wire|1344|539|21||11|#FF0000|16|11|10|
BREADBOARDSTYLE=BB45
```

Cancel Load Circuit

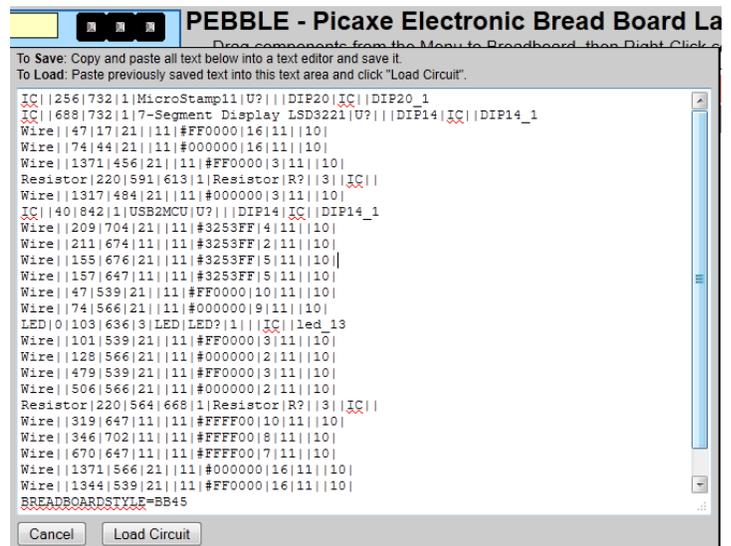
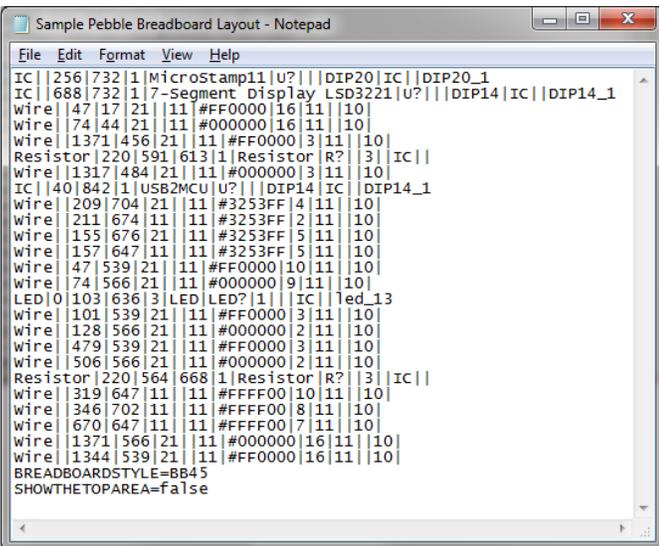
```
Sample Pebble Breadboard Layout - Notepad
File Edit Format View Help
IC|256|732|1|MicroStamp11|U?||DIP20|IC|DIP20_1
IC|688|732|1|7-Segment Display LSD3221|U?||DIP14|IC|DIP14_1
Wire|47|17|21||11|#FF0000|16|11|10|
Wire|74|44|21||11|#000000|16|11|10|
Wire|1371|456|21||11|#FF0000|3|11|10|
Resistor|220|591|613|1|Resistor|R?|3||IC||
Wire|1317|484|21||11|#000000|3|11|10|
IC|40|842|1|USB2MCU|U?||DIP14|IC|DIP14_1
Wire|209|704|21||11|#3253FF|4|11|10|
Wire|211|674|11||11|#3253FF|2|11|10|
Wire|155|676|21||11|#3253FF|5|11|10|
Wire|157|647|11||11|#3253FF|5|11|10|
Wire|47|539|21||11|#FF0000|10|11|10|
Wire|74|566|21||11|#000000|9|11|10|
LED|0|103|636|3|LED|LED?|1||IC||led_13
Wire|101|539|21||11|#FF0000|3|11|10|
Wire|128|566|21||11|#000000|2|11|10|
Wire|479|539|21||11|#FF0000|3|11|10|
Wire|506|566|21||11|#000000|2|11|10|
Resistor|220|564|668|1|Resistor|R?|3||IC||
Wire|319|647|11||11|#FFFF00|10|11|10|
Wire|346|702|11||11|#FFFF00|8|11|10|
Wire|670|647|11||11|#FFFF00|7|11|10|
Wire|1371|566|21||11|#000000|16|11|10|
Wire|1344|539|21||11|#FF0000|16|11|10|
BREADBOARDSTYLE=BB45
SHOWTHETOPAREA=false
```

# Loading a Breadboard Layout

- Launch Pebble
- Select the **Save/Load** Button



- Open your existing breadboard layout instructions using NotePad and copy them into the Load instructions area in Pebble.



- Select **Load Circuit**
- At the prompt “Clear All Components”, select **Yes**.
- Your breadboard layout should now appear.

