

PICAXE VSM Tutorial Part 5

Example on how to modify an existing component

How to generate a PICAXE-18X chip model with visible power pins (or to move the position of input/output pins e.g. to make the 'real-life' pinout shape):

- 1) Start a new design
- 2) Place a PICAXE-18X part
- 3) Right click over the part and select 'decompose'.
- 4) Select the Vdd power pin (this will now be visible at the top of the shape). Right click and select 'Edit Properties'. Make sure 'Draw Body' is checked (this makes the pin visible) then click OK. Adjust position of the pin as desired (right click to rotate or mirror).
- 5) Repeat for Vss
- 6) Drag a selection box around all the decomposed shapes and text.
- 7) Right click and select 'Make Part'
- 8) Step through the Wizard selecting all the default options (in this situation these options will all be correctly set as the settings will have been carried forward from the original decomposed part).
- 9) Save the part into your 'USERDVC' library.

Example of how to modify an animated component

How to change the colour of an animated LED:

- 1) Start a new design
- 2) Place a LED-RED part
- 3) Right click over the part and select 'decompose'.
- 4) As this is an animated part it is made up of 8 animation symbols aswell as the main LED shape. Change mode to symbol ('S in box' on left toolbar) so you can see the list of the 8 animation symbols. Place the LED_RED_7 symbol.
- 5) Click on this symbol to highlight, select library > decompose menu.
- 6) The coloured triangle within this symbol can now be edited to a different colour (e.g. orange).
- 7) Drag a selection box around the shape.
- 8) Right click and select 'Make Symbol'
- 9) Make the symbol with an appropriate name e.g. LED_ORANGE_7.
- 10) Repeat for all the other sequence of symbols LED_ORANGE_0 to _6.
- 11) Go back to the original decomposed LED part.
- 12) Drag a selection box around the decomposed LED parts (do not include the animation symbols as they will be automatically included when the part is built).
- 13) Right click and select 'Make Part'
- 14) On the first Wizard page change 'Device Name' to LED-ORANGE and change 'Active Component Details > Name Stem' option to match your symbol names (e.g. LED_ORANGE). Step through the rest of the Wizard selecting all the default options.
- 15) Save the part into your 'USERDVC' library.