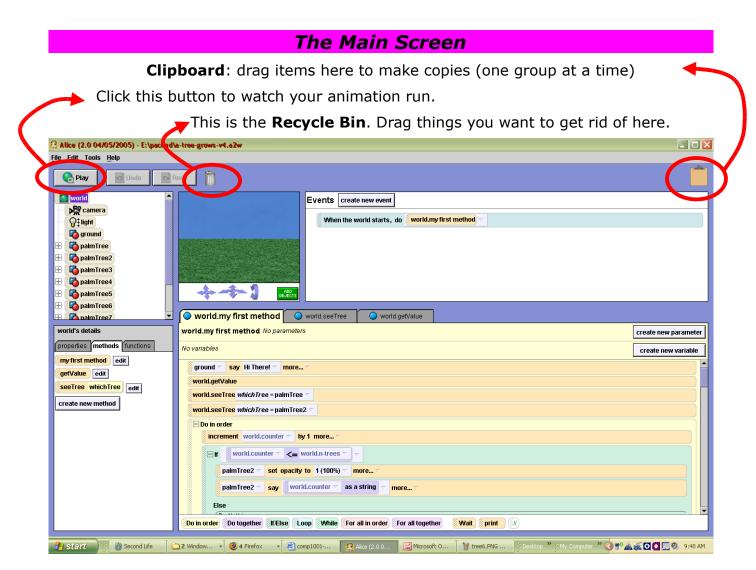


ALICE Reference Guide



The following page has more details on the different sections of this main Alice screen.

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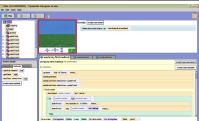


The Main Screen, con't



Object Tree pane (details panel):

- shows a complete list of all the objects you have in your world
- note that some have sub-parts; you can get at them by clicking the palmTree plus beside the object



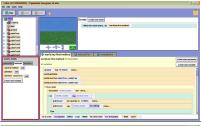
World Screen pane (world view):

- shows what your atsrting world looks like
- to add more objects press the button
- you can <u>move the camera</u> using the camera controls



Events pane (events editor):

• set up your animation to respond to various "events", like mouse clicks, keys being typed, etc.



Object pane (details panel):

 displays information about the object currently selected in the object tree pane (above)



The Code Edit pane (method editor):

- shows you your code
- note there is a tab for each open method
- open a method for editing by clicking on the button next to the method you want in the object pane



Program Tiles pane:

- contains the program tiles you can use in the method that is currently open for editing.
- To use them just drag them to where you want them

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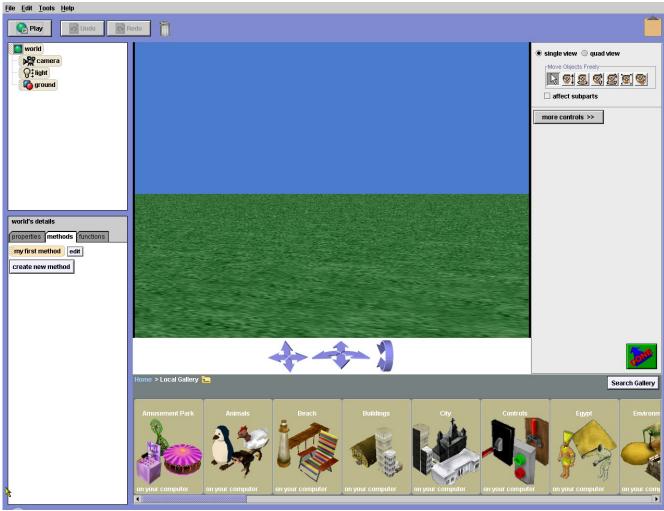






Inserting Objects

When you click on the button, the screen changes to look like this:



To look at items in a gallery, double click on it.

To move an item into your scene, click on it or drag it in.

To edit the object:

- right-click and use the methods in the drop down menu
- use the Move Objects Freely Simple Simple
- When you are finished, click on



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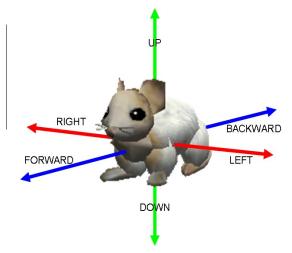








Using the Mouse to Move Objects During Scene Set-up



Degrees of Freedom

Vertical Axis (height, z-axis)

Depth (y-axis)

Horizontal Axis (width, x-axis)

Note the left/right designations are from the perspective (POV) of the **object**.



From the Insert Objects Screen

- "Normal Mode" moves side to side (x-axis) and forwards and backwards (y-axis)
- Moves up and down *relative to the world*
- 🚨 Turns on its vertical (up-and-down) z-axis
- Iurns on its horizontal (left-and-right) x-axis
- Material Turns around the center point (where all three axes cross).
- Resize: makes the object larger and smaller.
- Duplicate: every click on an object duplicates the object in excatly the same position (so you likely won't see it).

Camera Movements

4	*	
along the Y-Z plane ("wall") up & down, side to side	along the X-Y plane ("surface") backwards & forwards; side to side	Rotate around the X axis

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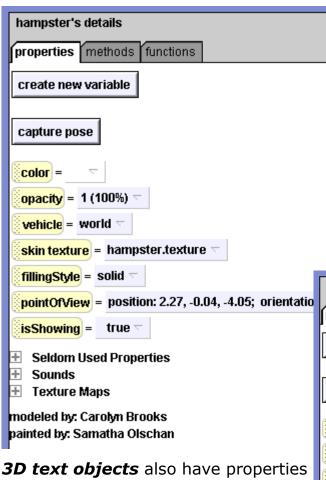








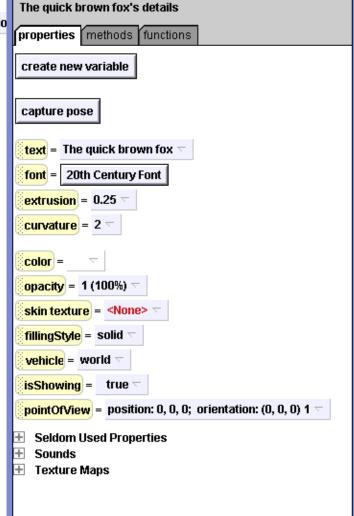
Object Attributes



3D text objects also have properties to describe the text being displayed. You have control over what the **text** (message) is; the **font**; **extrusion** (how thick); and **curvature** (how smooth the curves are – don't go below 1).

These are the properties (skinny, tall, blue, etc.) of an object and can be changed. All objects have the ones we see to the left. *Opacity* is a measure of how see-through something is. 100% opaque is *solid*, and 0% opaque is *invisible*.

The **vehicle** is what the object is attached to (usually the **world**). If an object's **vehicle** is moved, it will go along with it.

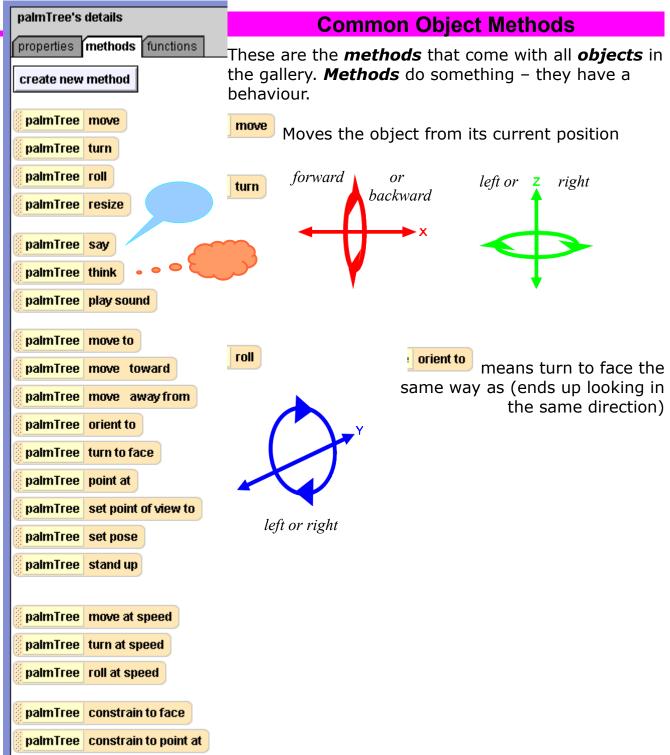


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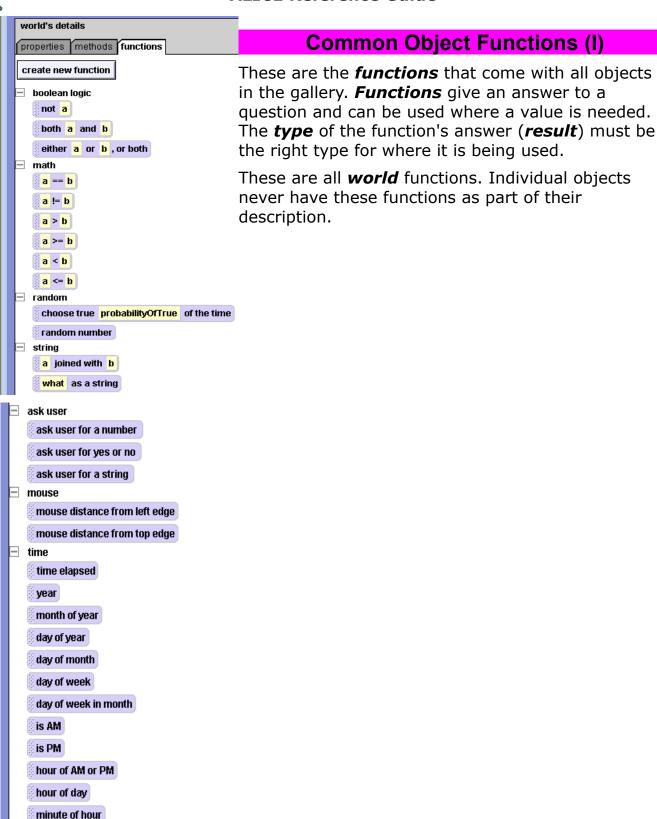


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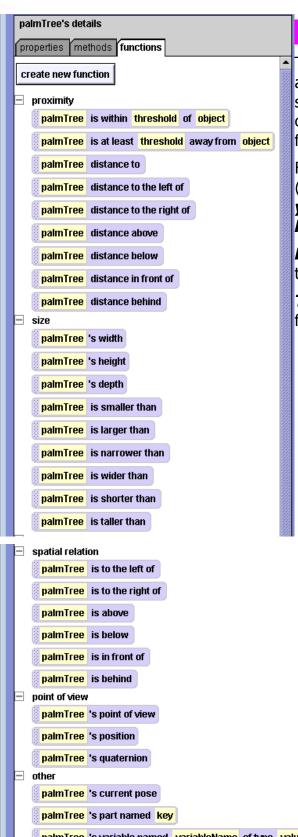




second of minute







Common Object Functions (II)

These are individual **object** functions. They apply to a specific object and may involve some kind of comparison against another object. They will not be accessible as world functions.

Functions that use **IS** as part of their name (like **palmtree IS wider than**) will have a yes (true) or no (false) answer. These are **boolean** functions.

Proximity refers to how close something is to something else.

Threshold is some value that defines a limit for something.

palmTree 's variable named variableName of type valueClass

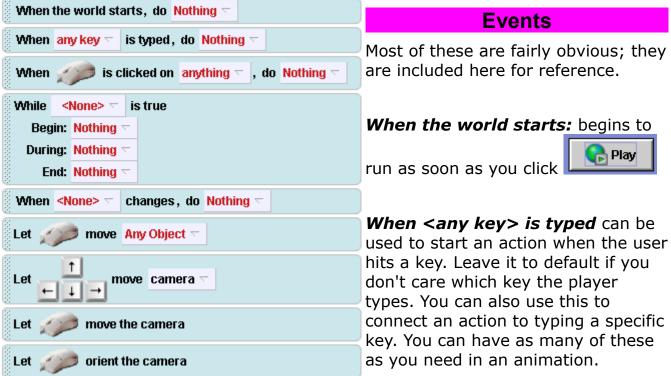
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While <something> is true aka **BDE** event. It allows us to set up an action that loops so long as some thing is true, but can also do something at the start of the first time through as well as something else to do at the end of the last time through.

When <something> changes can be used to tie an action to a property.

Caution: Watch out if you allow the mouse to control the camera, especially if you also want to have the mouse control other objects.

Let the mouse move <any object> lets you move stuff with the mouse DURING the animation. If you leave it to default then the player can move anything. You can also specify that individual objects can be moved.

MOVE vs ORIENT: *move* actually puts the camera in a different place without changing the way it is pointing, while *orient* leaves it where it is, but turns it to face something (or nothing).







ALICE Program Tiles	
Do in order	For grouping sets of program tiles. All the tiles in this group will be executed one after the other. Each one waits until the other is finished before starting.
Do together	For grouping sets of program tiles. All the tiles in this group will be executed simultaneously.
lf/Else	Asks a question. If the answer is yes (true) the tiles in the first section are executed. If the answer is no (false) then the tiles in the second section are executed. Either section can be empty.
Loop	Repeats a set of tiles a specified number of times.
While	Repeats a set of tiles so long as a specified condition remains <i>true</i> (i.e. Answer to the question is <i>yes</i>).
Wait	Stops doing what ever it's doing for the specified length of time.
print	Used in debugging programs. Prints the value of an attribute in a window below the animation screen.
	COMMENTS Used as commentary for us so we can remember what we did and why we did it.





