

The Survey document on Wings3D 1.5.3.

written by tkbd

Note: Including the mock-up of the user interface in Screen shot .

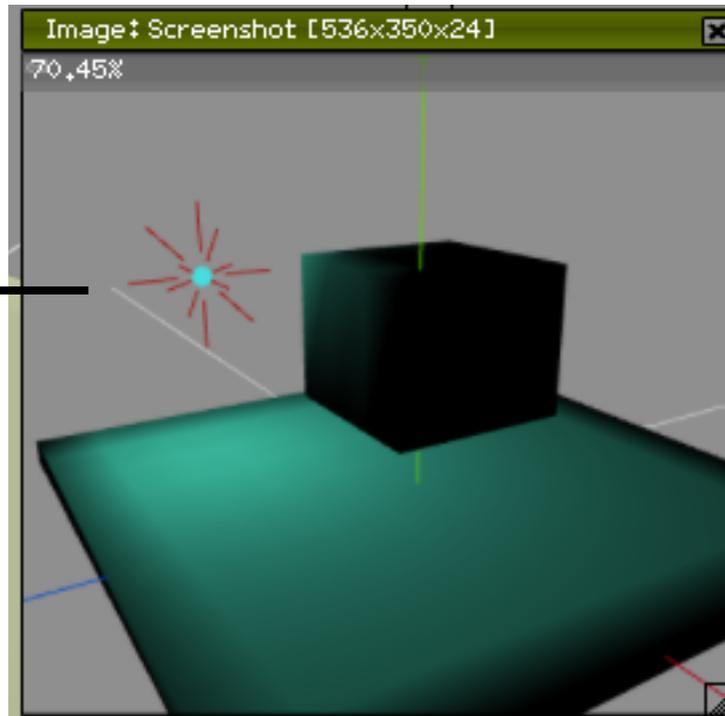
Note: This document is a survey by one Wings user. It is one of the information source for the brainstorming.

1. Add ON/OFF for Light Sphere display

Wings3D Wish list

The present conditions of Wings3D 1.5.3.

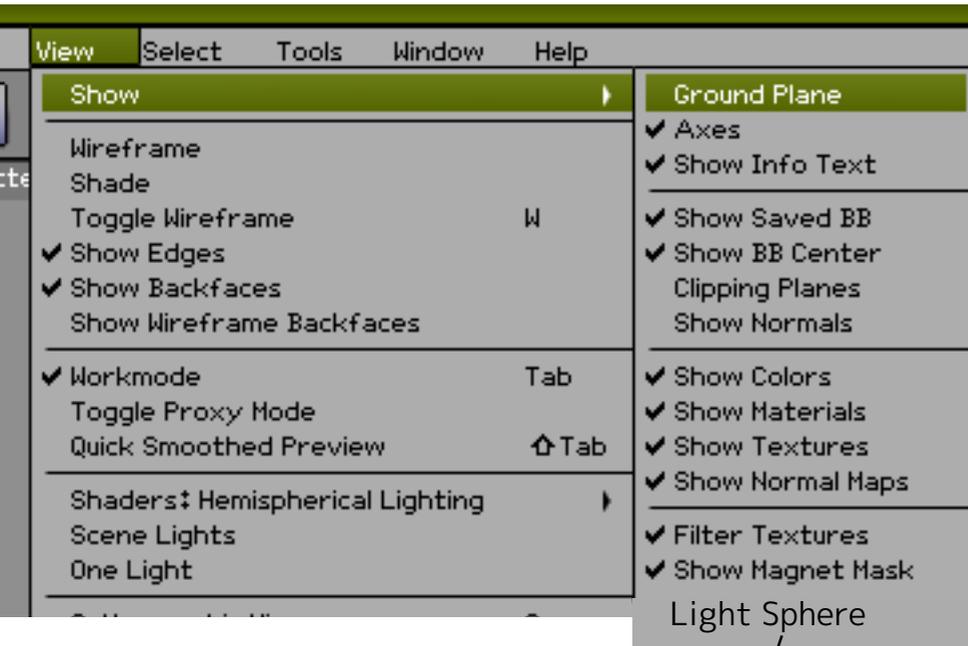
Light source object is displayed in any case.



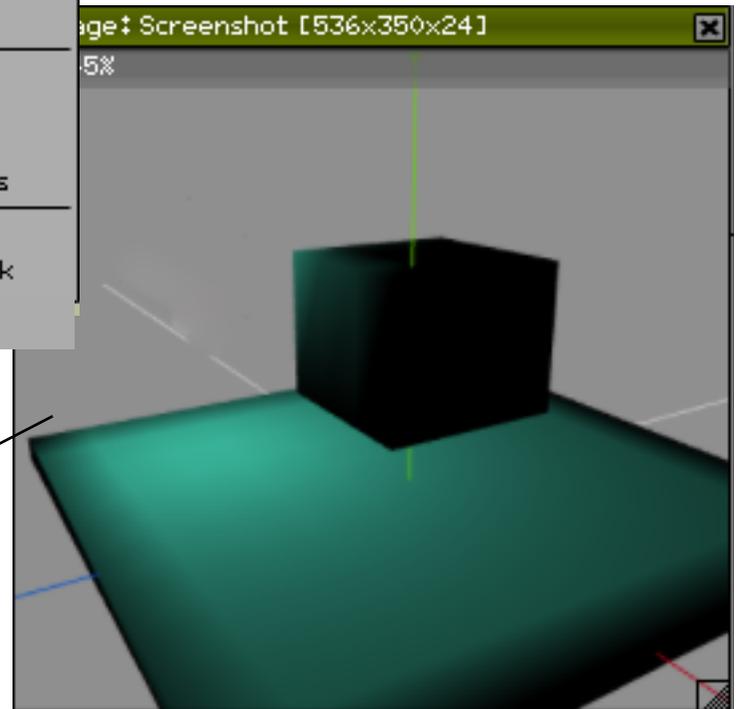
When the rendering by Wings3D view only,
there is that the gizmo(for light sphere) gets in the way.

1. Add ON/OFF for Light Sphere display

The Proposal



I wish this feature....



The display when "Light Sphere" turned off.

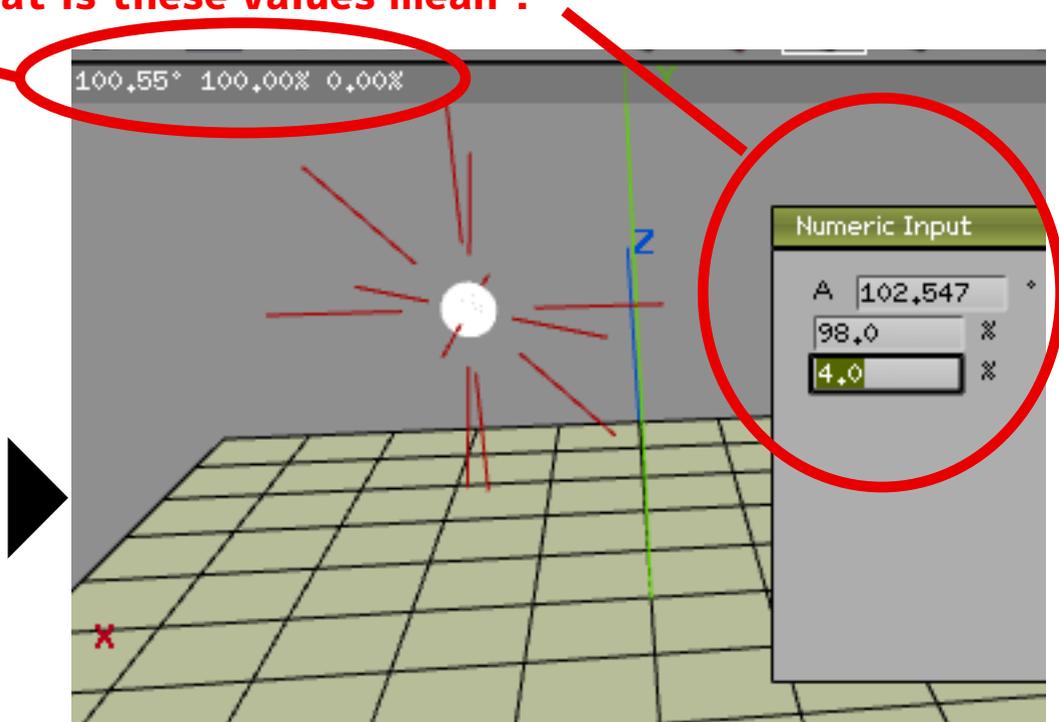
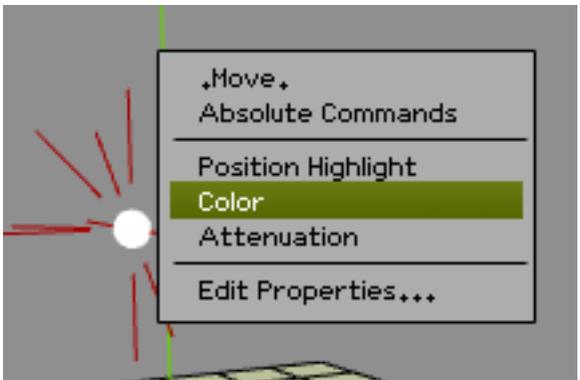
But the lighting has been keeping.

2. Why Light color setting is tricky?

Beginner can't forecasted that how it works.

What is these values mean ?

This command is make to lightcolor by (HSV:Hue,Satulation,Value)



The Information Line text also not user's help

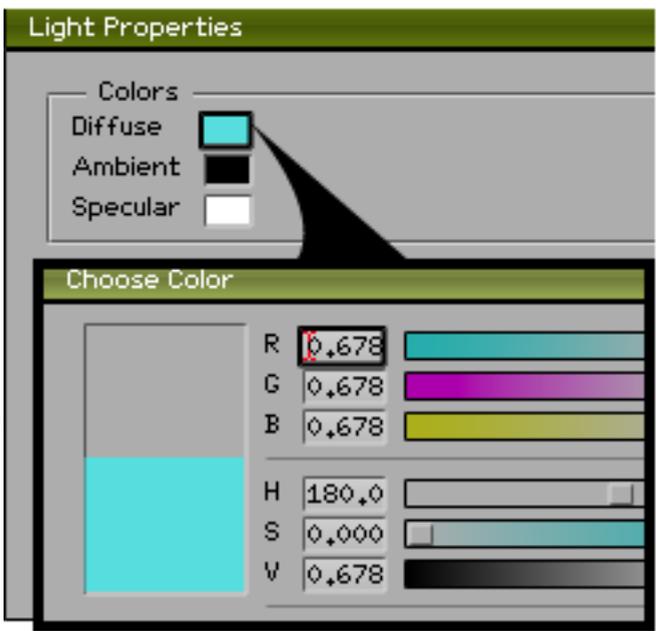
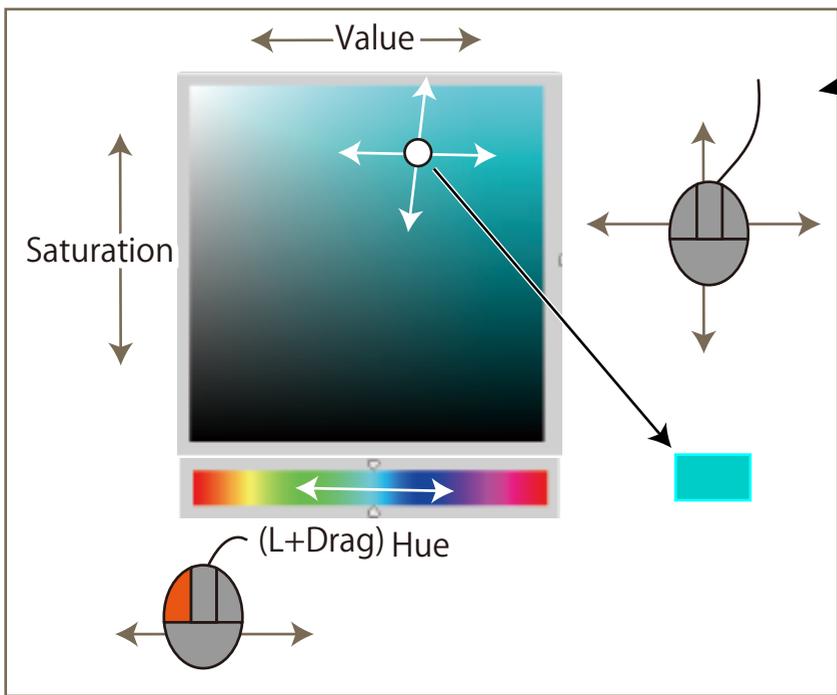


Mouse Move x,y LMB Drag ...etc

2. Why Light color setting is tricky?

The Proposal

If improve current specification (change by mouse biaxial movement amount), there are ideas to add color pane.

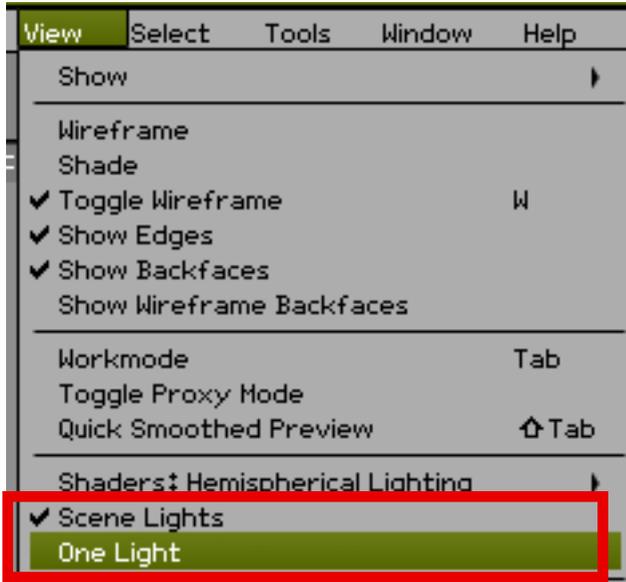


By the way, look at this screen shot that a color-setting from Outliner Window

This way is easy to understand.

3. One Light ? Two Light

Beginner can't forecasted that how it works.



Toggle

One Light <--> two Lights

What Mode is now?

**Also Scean Light not work
on Shader Mode.**

**In order to try the combination,
the User will also trial and error many times.**

3. One Light ? Two Light

The Proposal

**More Information line follow
It needs some screenshot for this.**

4. Better safe than sorry.

Beginner can't forecasted that how it works.

User will also trial and error many times.

Information line isnt tell about these.

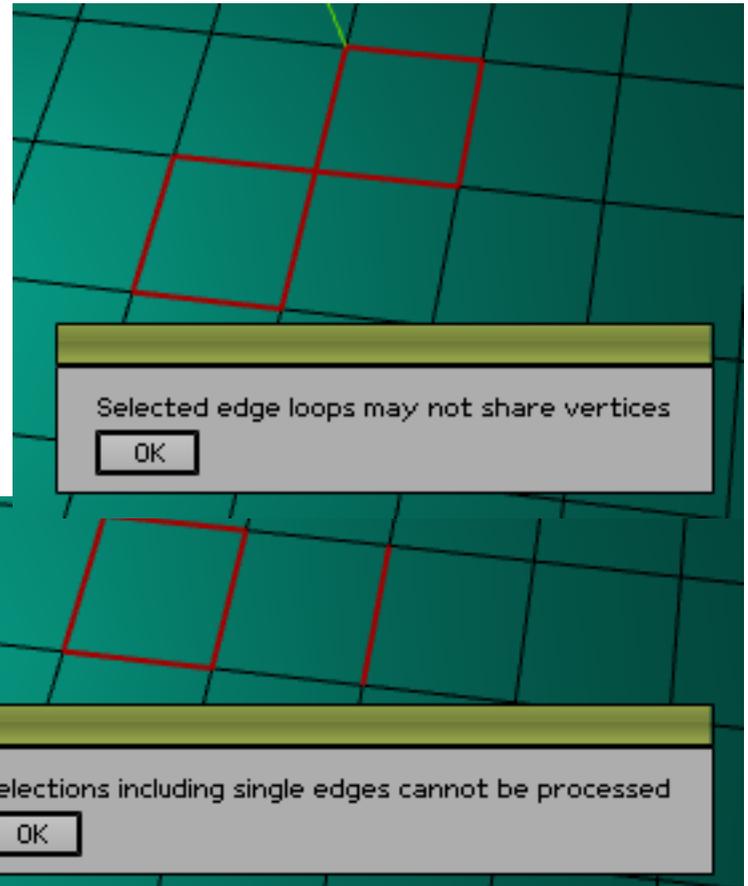
Edge > Bridge



Vertex > Weld



Edge > Circularize



4. Better safe than sorry.

**About Important thing, please tell User at first.
Need document's update.**

if this problem occur on a command in the deep location of menu.

For example.... Vertex > Deform > shear > RMB
Vertex > intersect > MMB

5. A command that has many 2nday selections will be difficult.

*Hansel and Gretel had put **the bread scraps** as signpost.
But they had been **eaten by the birds**.
They were **lost** in the deep forest after all.*

(From Grimm's Fairy Tales)

Secondary selection marker(**Green arrow/Point**)....

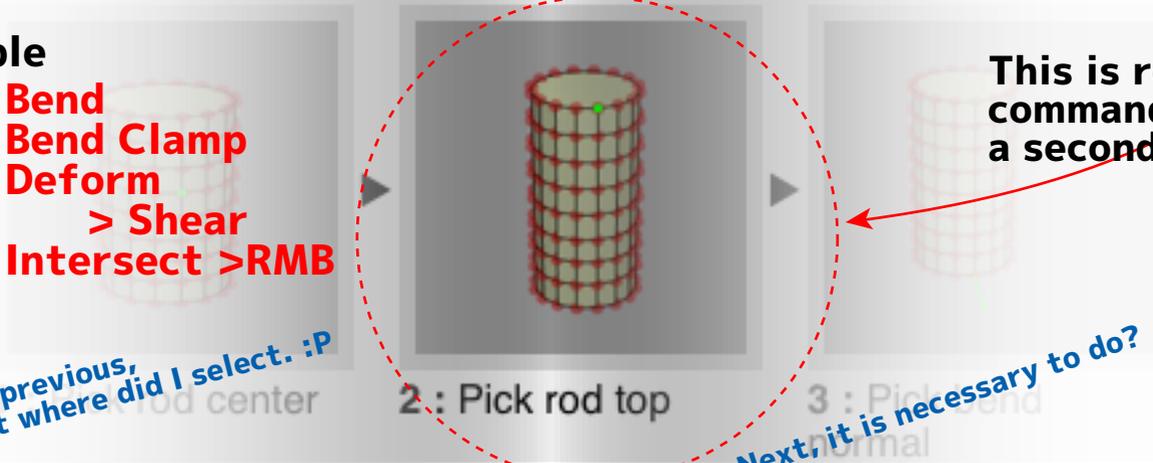
When in next step , previous marker disappear immediately from an user's sight.

So, before and after the 2nday selection process has always been hidden from the user. And it is difficult to understand the whole.

As a result, fail to correct assembly of the secondary selection, unnecessary trial and error will occur.

For example

- Vertex > Bend
- Vertex > Bend Clamp
- Vertex > Deform
- > Shear
- Vertex > Intersect >RMB



This is referred to all commands that have a secondary selection.

In the previous, Forgot where did I select. :P
1: Pick rod center

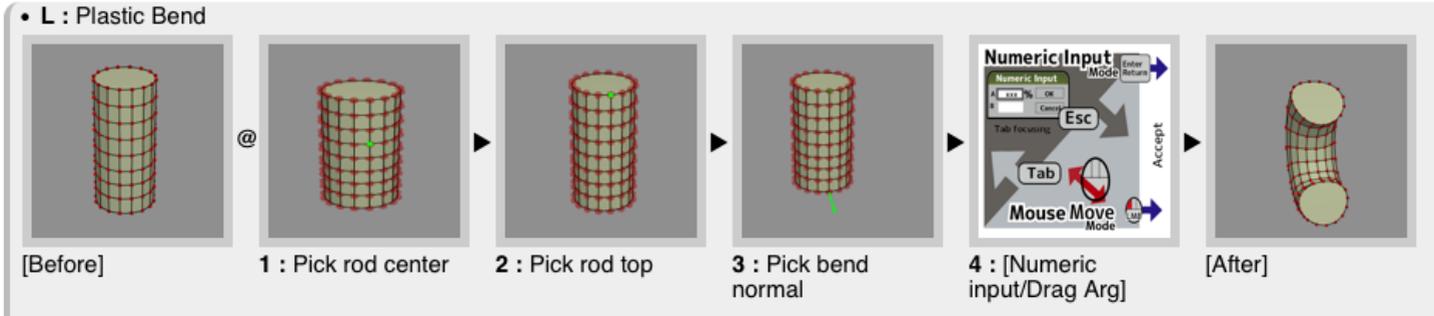
2: Pick rod top

Next, it is necessary to do?
3: Pick rod bottom

5. A command that has many 2ndary selections will be difficult.

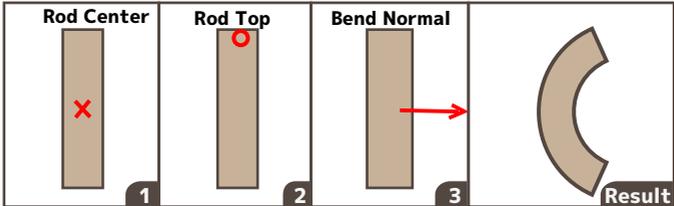
The Proposal

Improve the Document or Visual feedback is necessary.
To can understand if User knows the whole of the process.



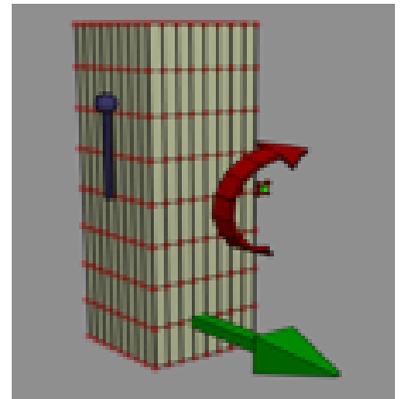
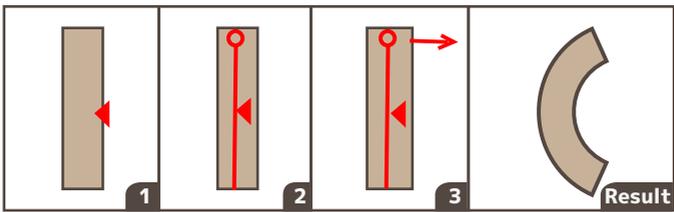
For example, It is that remain display the past 2ndary selections on the CURRENT operation. as like a foot print.

Status quo



Improve

(It leaves the previous 2Sel marker..)



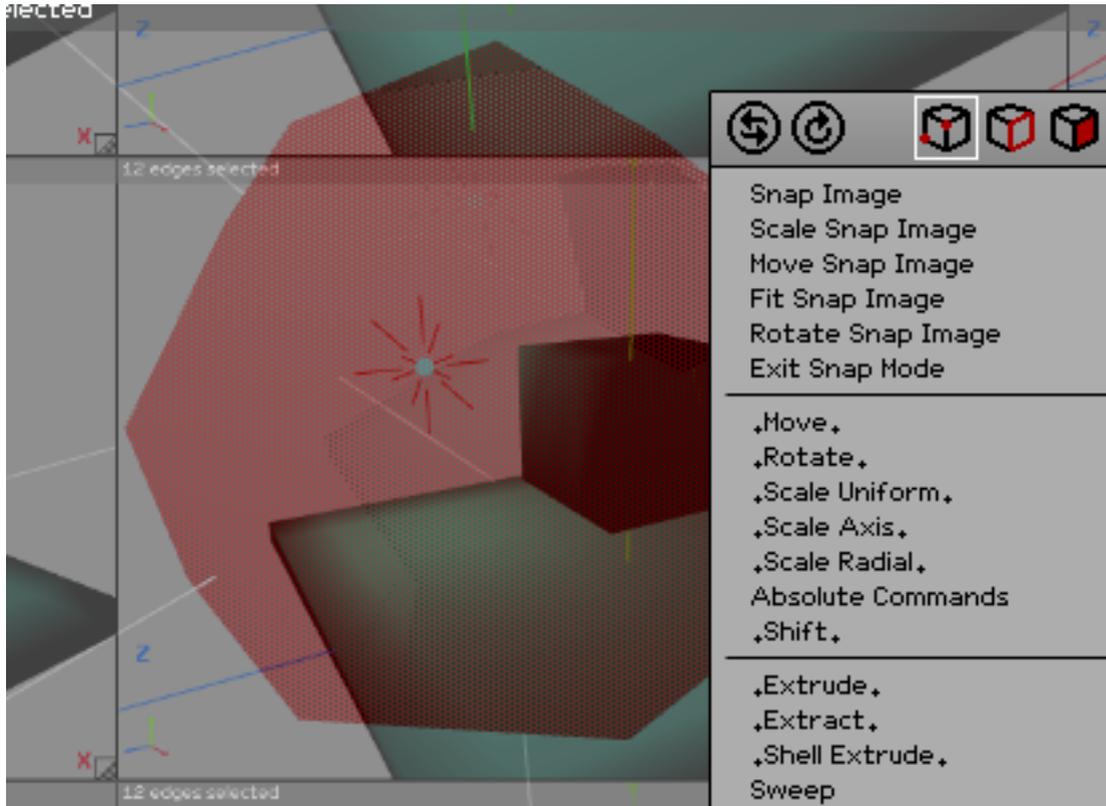
Of course, it is necessary to test and allow ON / OFF this feature from the configuration.

6. Users want to see the results immediately.

Wings3D Wish list

Snap Image Mode is a very useful feature.

But in that mode is always overlapping images.



This is inconvenient to see the results!! Once ,Exit this mode?
A few clicks it is necessary to to enter the SnapImage mode as we know.

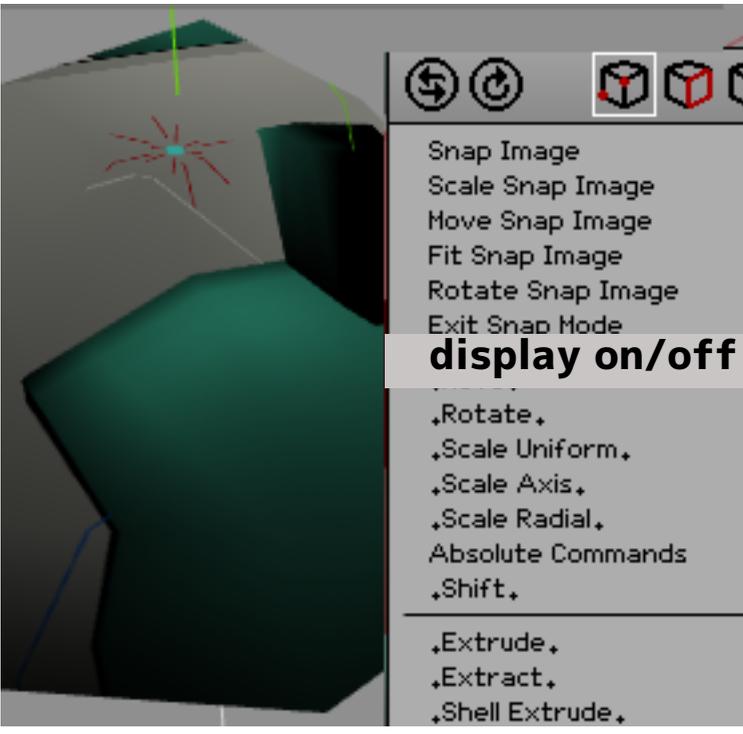
6. Users want to see the results immediately.

The Proposal

For example ... overlap display on/off command



**Default:
display on**



It to be well-known.
"Snap Image" command appear **only** Face select mode.

7. Depth of a menu hierarchy.

About Menu bar

So far, **Camera View** and **Selection Groups** features are **improved**.

These are improved and easier to use. It became accessible from each palette window.

But...

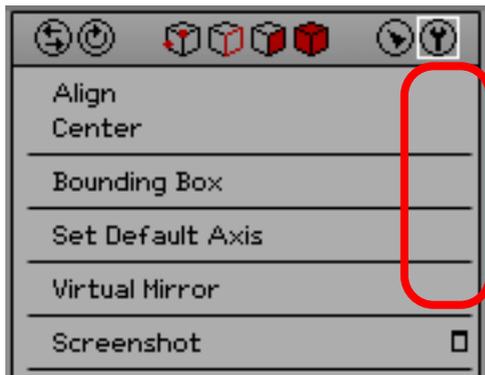
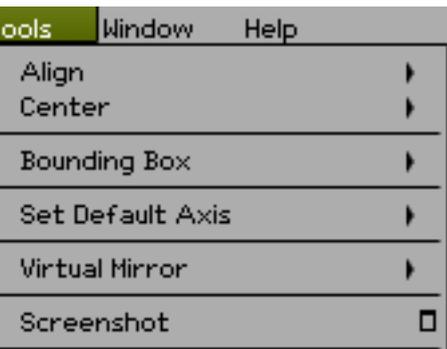
Still, there is a hard-to-use feature deep menu hierarchy.

For example **Bounding Box commands**, **Set Constraint**, **Magnet mask** commands, it is too far to reciprocate.

About RMB menu for command

Some commands in **Vertex>Deform menu**. **Face>Sweep command**.

Why RMB menu not indicate for submenu symbol?



There do not know what sub-menu exists.

7. Depth of a menu hierarchy.

The Proposal

About User interface design, Complex look, but that it is easy to use.

On the contrary, Simple look but difficult to use it too. (Flat design for smart phone)

Changing the UI design frequently is responsible for exhausting the user.(iTunes/iWork)

To renew all the UI when the user is familiar with the work is not a good idea.

(Ubuntu-unity,Win8,MSOffice)

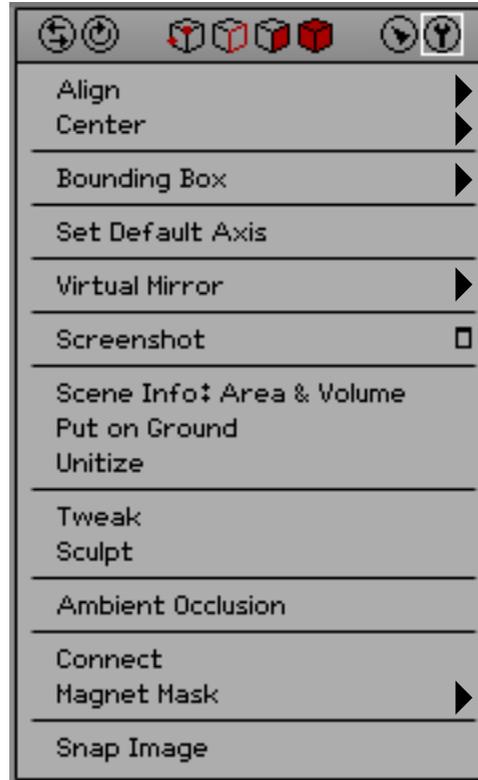
Be carefully...

It would be better to be able to some extent to customize the UI in the user side.

In Wings3D's RMB menu, for the order in which items appear.It has decided to it from each plug-in program side.

So, it is considered a method that reconstructs a menu for customization after once aggregating RMB menu.But useless processing occurs in this.

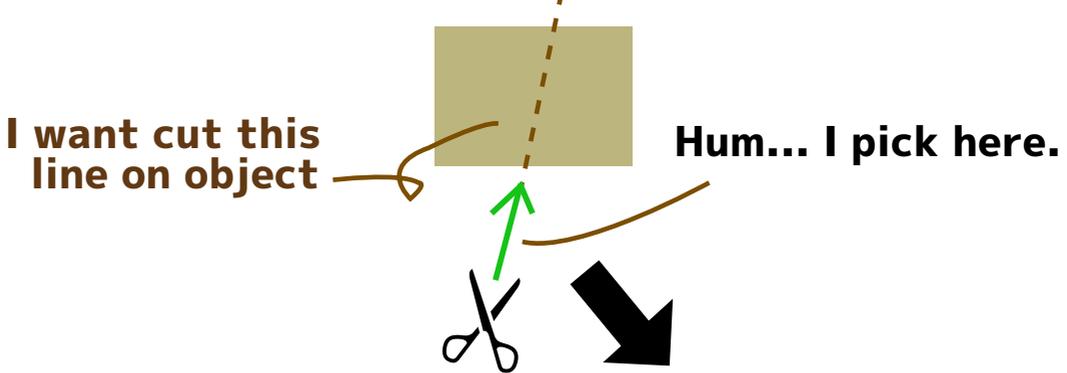
To solve this problem, it is necessary to properly modify the number of plug-in program.



8. The difference of recognition.

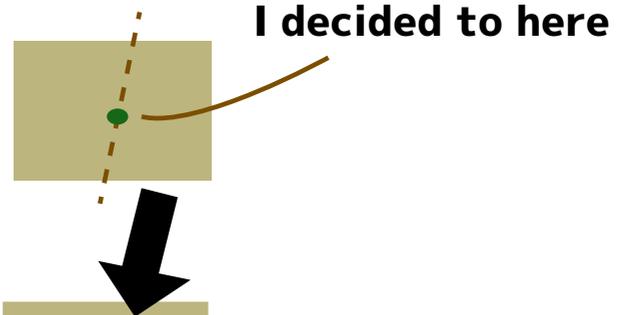
PlaneCut or Slice RMB command

At first , Information line says **"Pick Axis"** simply. What axis is it?

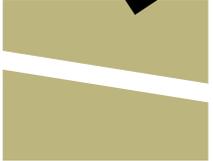


Next, Information line says **"Pick Point"** .

Point + Axis
What would how to do?



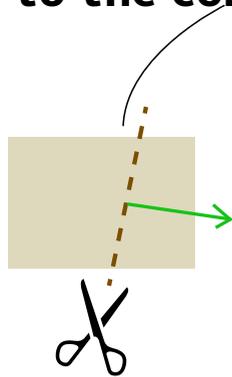
I got a result which is not desired.



It is not possible to return to the previous process.

8. The difference of recognition.

Users can trial and error **many many times**, get to the correct answer.



Information line

How to express this in the help text?

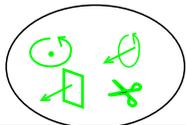
- *Direction of the knife/sissor.
- *Normal for Cutting etc...

Solution

- *Clarity of the help text.
- *Improve the document.

or

- *Interactive feedback
- *Improve the usability.



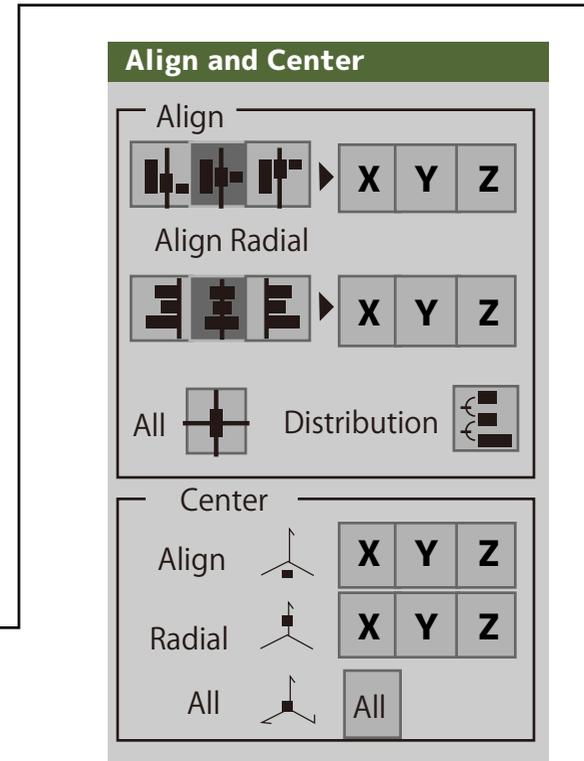
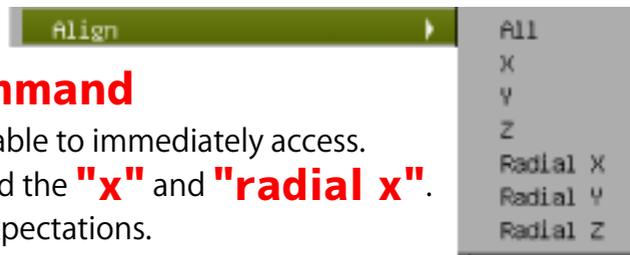
Similar problems in other case

Tools > Align command

This feature is handy to be able to immediately access.

But I often to misunderstand the "x" and "radial x".

So, It may not work in my expectations.



This problem can be resolved document or UI improvement.

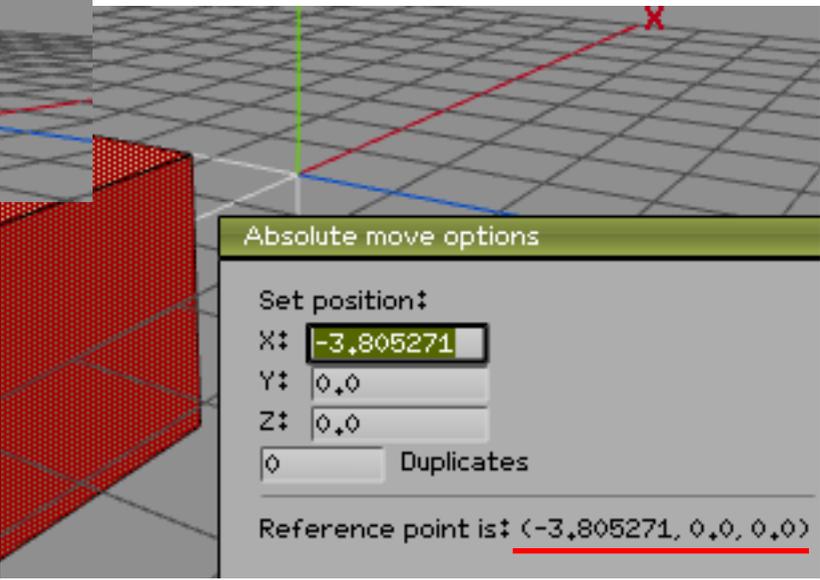
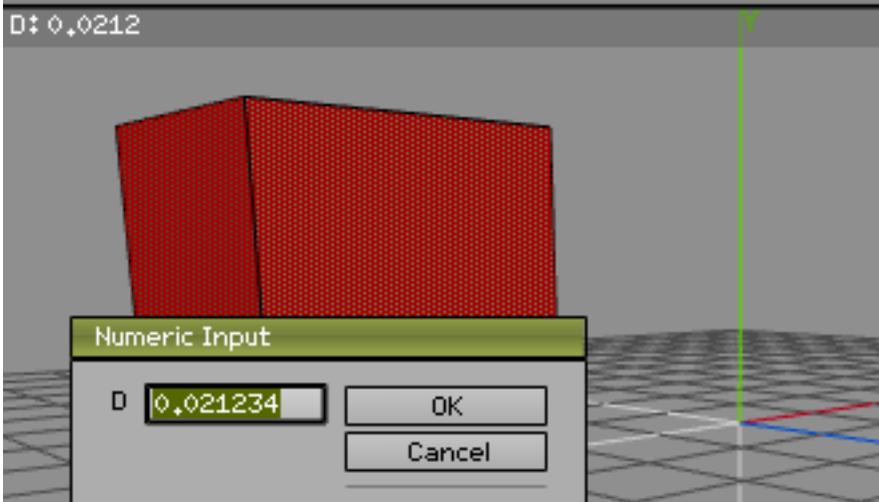
Icon or illustration is going to help the user to understand the function.

9. The ruler does not exist.

Is there is no clue to a need to specify a numeric value.

Users feel frustrating.

Absolute command

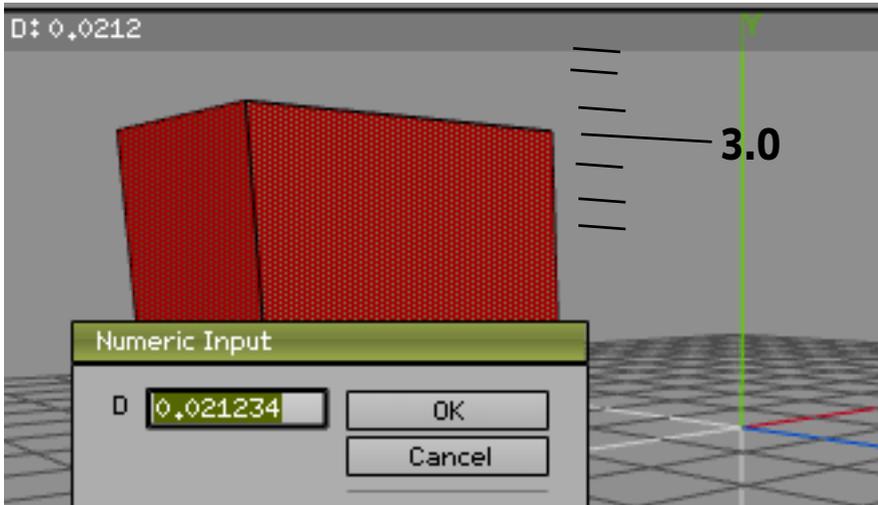


Move >Y

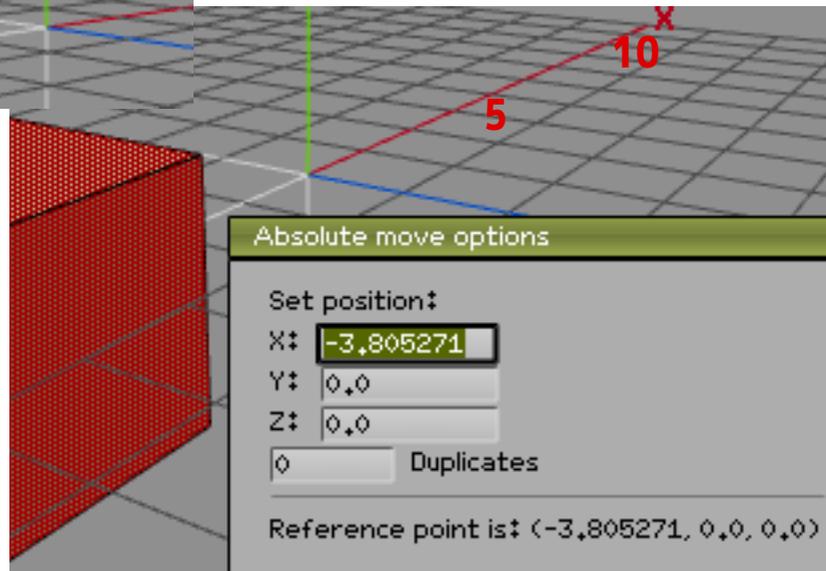
Can you point to a reference point in 3D Geomety window?

9. The ruler does not exist.

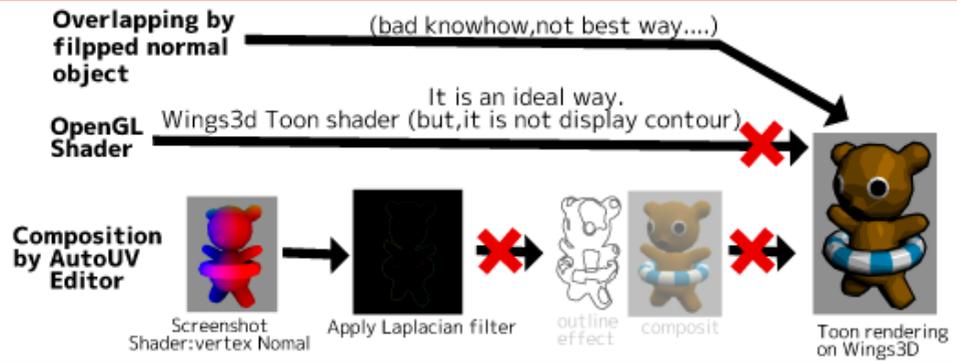
The Proposal



Display a virtual ruler **in temporary**.



10. Shader and Image compositing



1. Wings3D shader is not enough.
Please increase the more various types of shaders.
for example "Object Contour" etc...

1-1. Shader Programmers does not come.

Because it is not easy to add a shader to menu.
(Menu data is hard coded in Wings source code and need Build Wings3D)

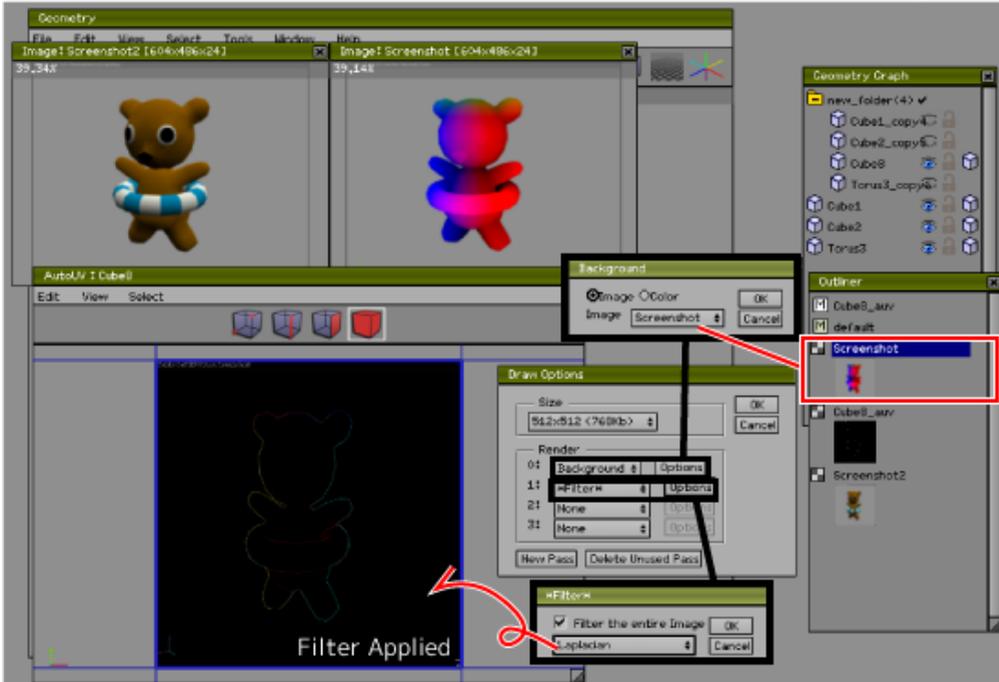
How can we do to get their cooperation?

2. Lack of image compositing function.

You can apply filters using AutoUV.
(see screenshot)

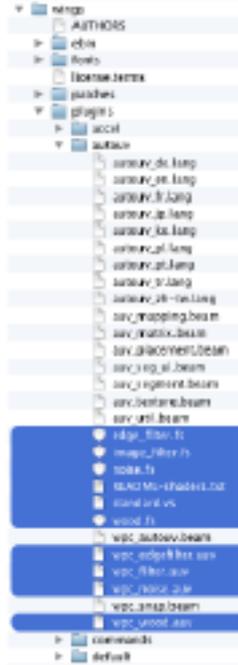
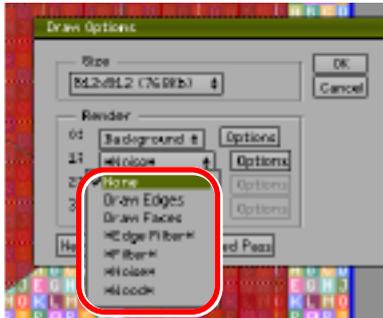
However Image composite can't.

If we can synthesize the two images,
We'll be able to or baking ambient occlusion texture.



10. Shader and Image compositing

Shader 2D Effect

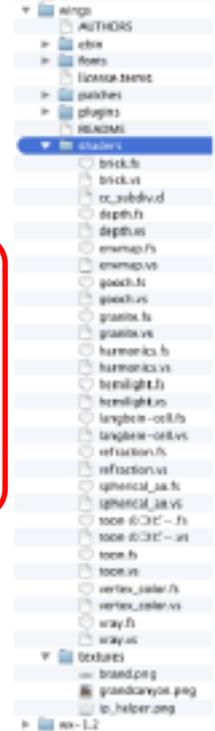
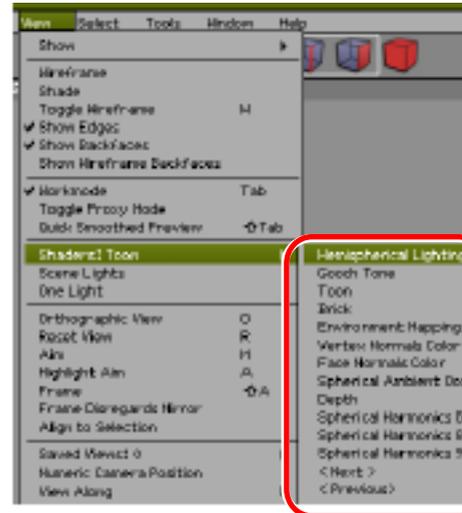


wpc_SHADERNAME.auv

```
{name, "Shader"}.  
{vertex_shader, "vertexshader_file.vs"}.  
{fragment_shader, "fragmentshader_file.fs"}.
```

vertexshader_file.vs fragmentshader_file.fs

Shader 3D Effect



Currently it is possible to modify the existing shader. However, to be registered in the menu, it is necessary to compile the Wings3D. It is to the menu structure data to an external file. So, it can shorten the cycle of trial and error.

11. User Interface: Launcher

Game or OS(Operation System) are worth to study.

In FPS or Minecraft and Wow such as a game, these has palettes for quick access to items and current equipment. They are dealing with a large amount of items. Users are able to perform the work quickly.

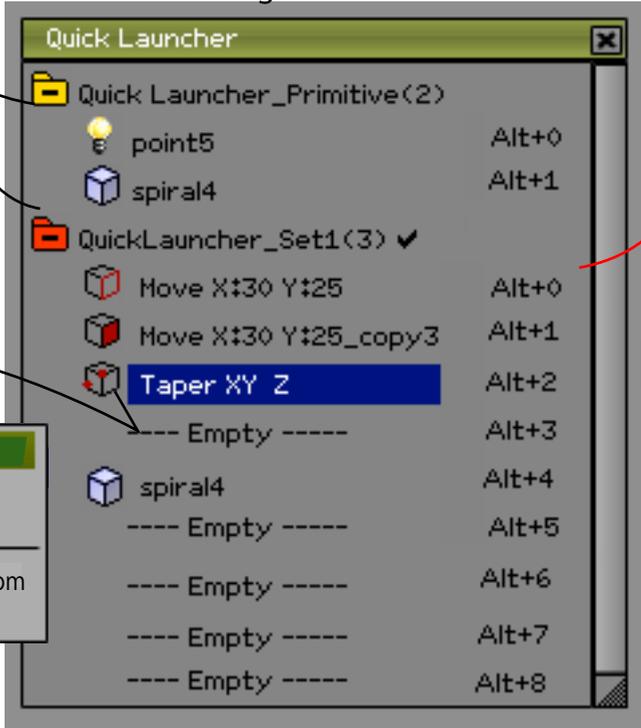
Mac OSX has launcher too.

This is a hot key dedicated alt + 1~alt + 9 only. The hot key string must be always displayed to the user.



User will be able to have some of the settings as Folder, and could switch them

An idea of additional QuickLauncher. It's idea to use efficiently the hot key with limited.

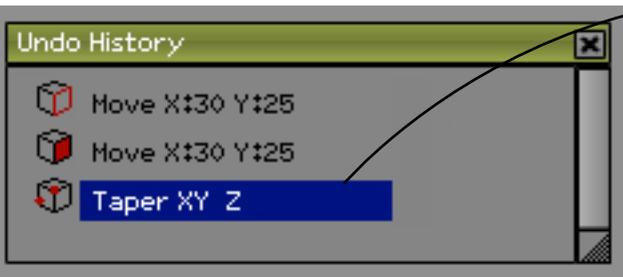


Item	Hotkey
Quick Launcher_Primitive(2)	
point5	Alt+0
spiral4	Alt+1
QuickLauncher_Set1(3)	
Move X:30 Y:25	Alt+0
Move X:30 Y:25_copy3	Alt+1
Taper XY Z	Alt+2
Empty	Alt+3
spiral4	Alt+4
Empty	Alt+5
Empty	Alt+6
Empty	Alt+7
Empty	Alt+8

Drag & Drop for register it.



- Execute
- Delete
- .Rename
- Run from top to bottom
- Remove

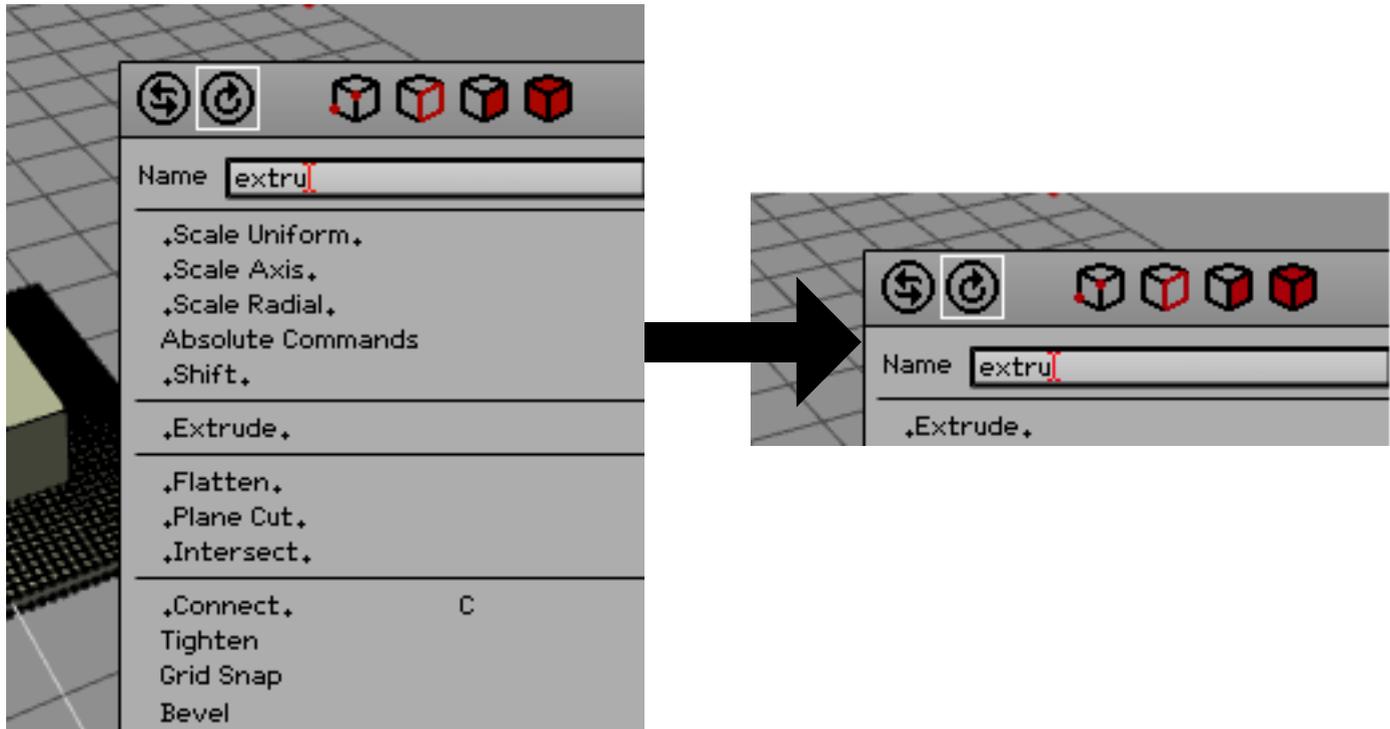


Action
Move X:30 Y:25
Move X:30 Y:25
Taper XY Z

11. User Interface: Launcher

The Proposal

The Launcher which finding to commands immediately by search text input.

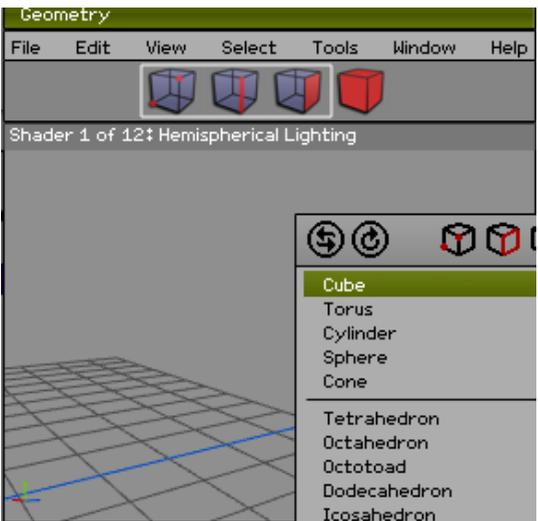
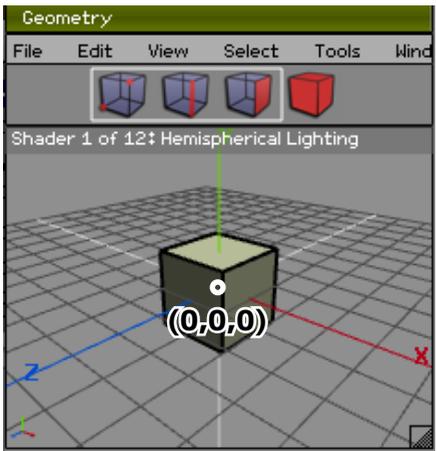


12. Put a Prmitive in the Screen's center.

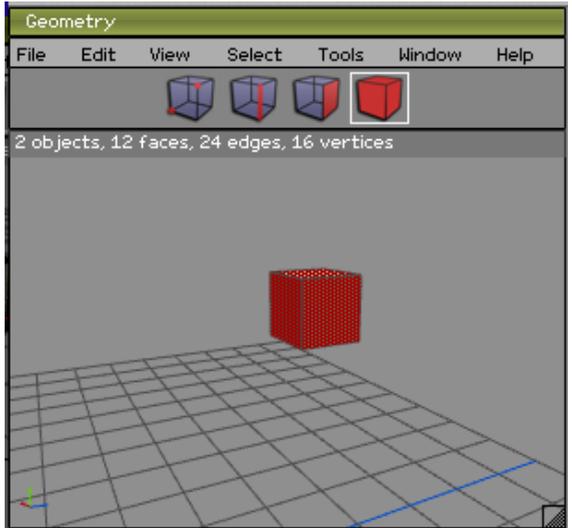
The Proposal

I understand that Wings3D hasn't 3D Cursor.
Probably User must create something in around of (0,0,0) always.

However, I sometimes would like to place the primitive in a location that is away from the origin.



The Ideas that little attentive.
What do you think?



if $(0,0,0)$ can't see in current view when make primitive ,then the Primitive generate in the screen's center.

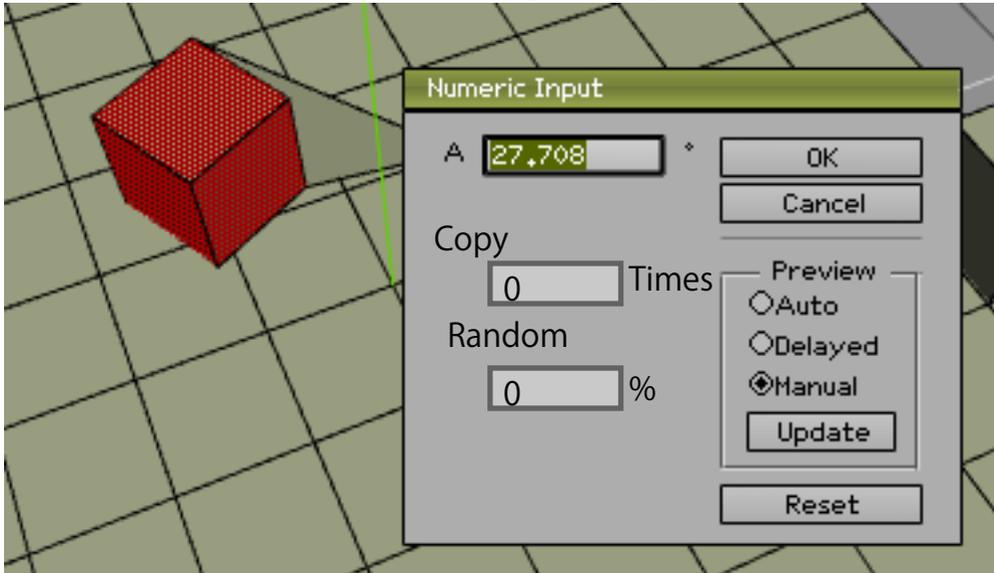
13. User Interface

Rotate
Move
Scale

} **Copy**
extend
Random

feature

When Tab key input mode.

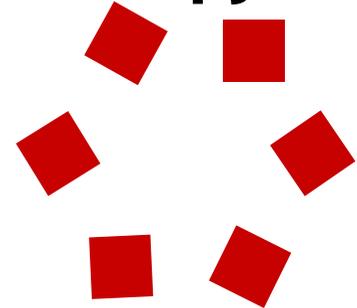


It such a thing is possible.

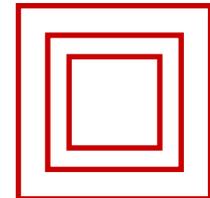
Move copy



Rotate copy



Scale copy

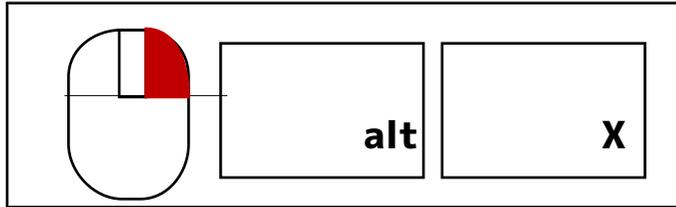


This solution doesn't messed up in the command menu.

14.Cooperation with the tutorial movie author.

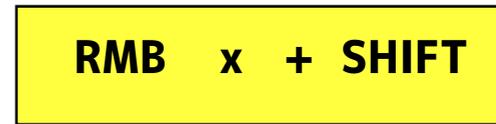
The Proposal

Realtime key monitor is necessary(this indicate in Wings3D's window).
When key press now?, which mouse button push now?



Graphical type?

or



Simply text?

Why need this?

*Wings3D has a user interface that the **mouse button switch frequently** .

It display what kind of operation you did.

it is **help to people which make Wings3D's tutorial movie.**

The fall back to another software?

* No, There is no monitor software that can display of the mouse button in Windows/MacOSX.

15. Avoid the conflict of Data and UI string

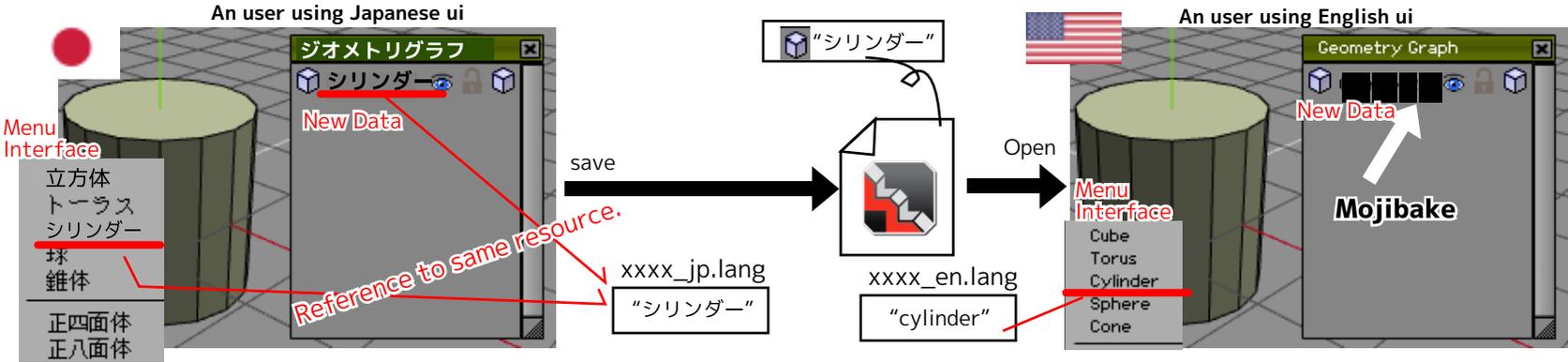
The Proposal

An advice that to plugin developers from a translator.

Please provide each resources for a new object name and for interface string.

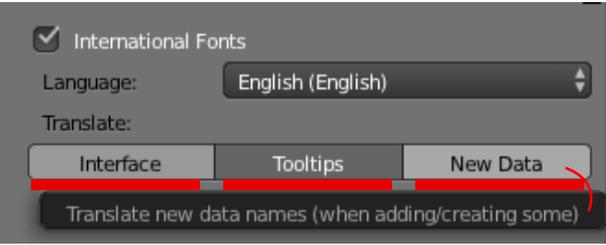
In other words, it should not be finished in one Data. It requires two data for i18n .

For example, It assume to transfer files between users who has different language settings.



So, I don't translate some object name DATA.

Blender 2.73 has a great solution to this problem.



This image from Preference Window

- It is suitable to each user's different learning/using styles.
- *The File management on between different language. ("new data" to English)
- *Set to User interface by English, but the help string is in native language.