

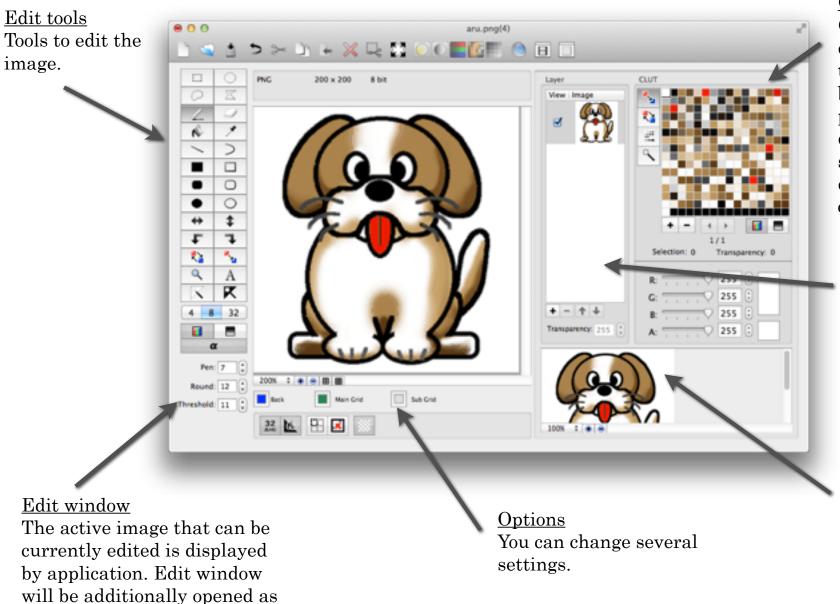
# DotShotX

Smart Dot Editor

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## Application outline

you activate a new image.



Color palette

Color palette is displayed here. When the image is 4 bit or 8 bit, the corresponding palette will be displayed. The common system palette will be displayed for a full colored image.

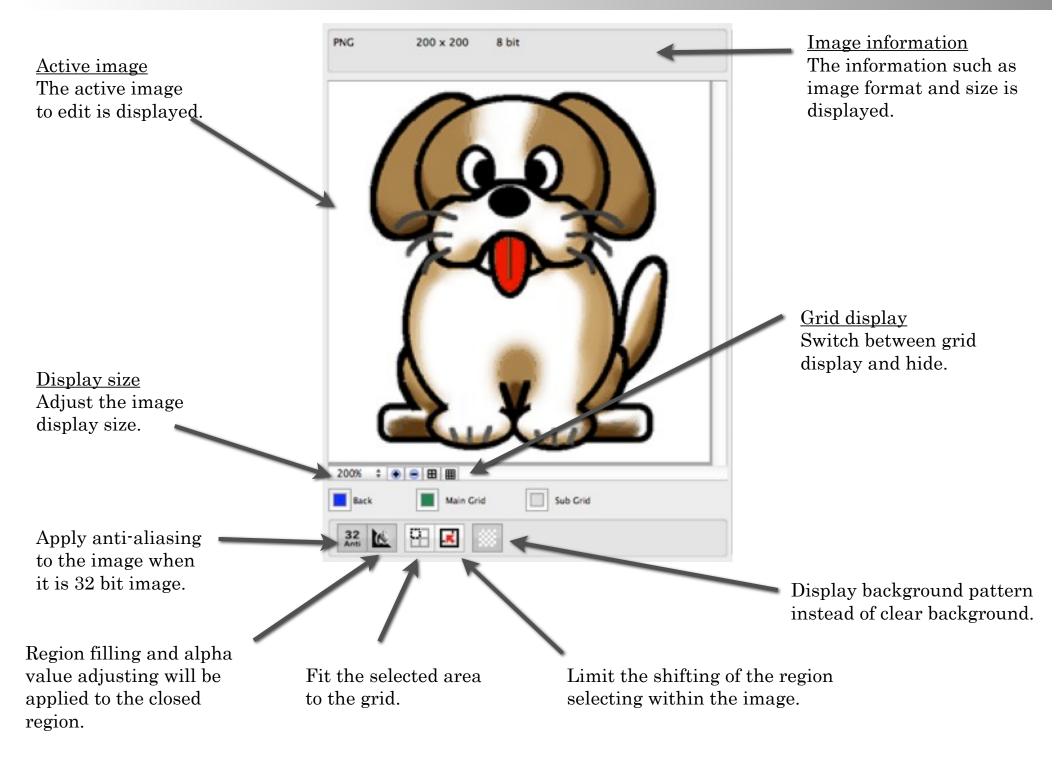
Layer

Multiple layers can be used to the image. You can only edit the active layer you selected.

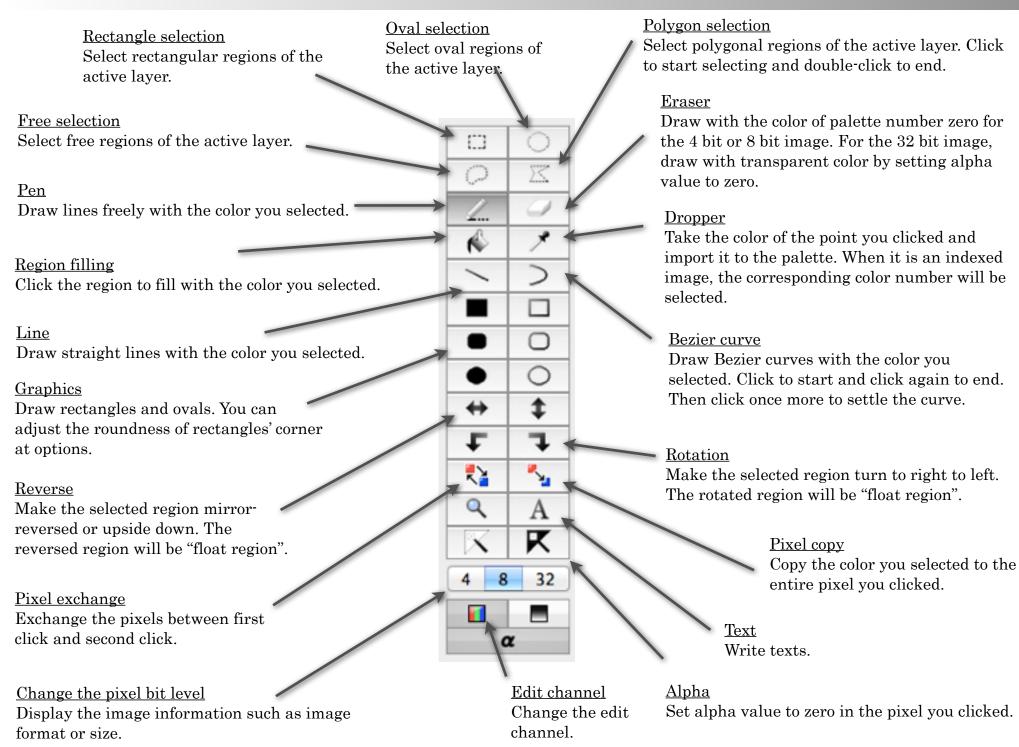
<u>Preview</u>

The image preview is displayed here.

## Edit



## Edit tools



## Color palette

#### Color exchange

Exchange colors by dragging and dropping. When it is an indexed image, with pushing the option key, the pixels which correspond to the color will be exchanged at the same time.

Generate color gradient Generate color gradient by dragging and dropping.

#### Transparent color

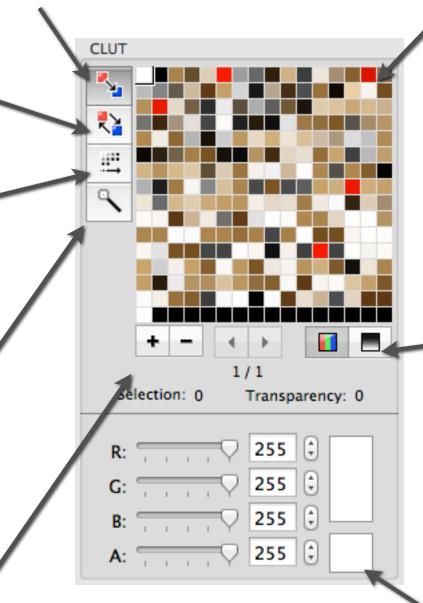
When it is an indexed image, you can make the color you clicked "transparent color". The transparent color here will be the designated transparent color when it is saved in the GIF format.

Palette adding/deleting

You can add or delete a palette when it is an indexed image.

Copy the color

Copy the color by dragging and dropping.



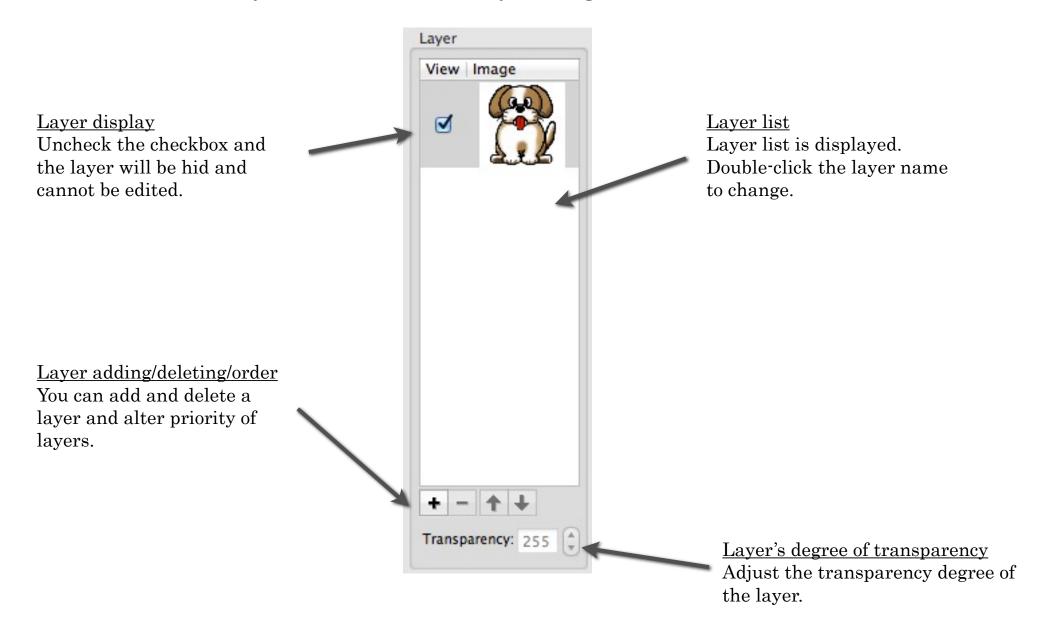
Color palette
Display 256 colors at a maximum.

<u>Change channels</u> Change the display channels.

<u>Change colors</u> Change the color you selected.

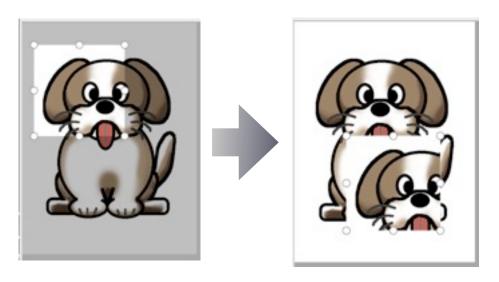
## Layer

Multiple layers can be used for the image. You can only edit the active layer you selected. The other inactive layers are not affected by editing.



## Float region

Float region is the temporary "easy-generated layer" and each layer can have only one of that. When there is a float region, your edit will be limited within the float region. To make a float region, select "float the selected region" or "float the outside of the selected region" from the select menu when the image has a selected region. A float region will also be made when a selected region is applied by edit tool's "Rotation" or "Reverse". In addition, the image that is pasted from clipboard is also float region.



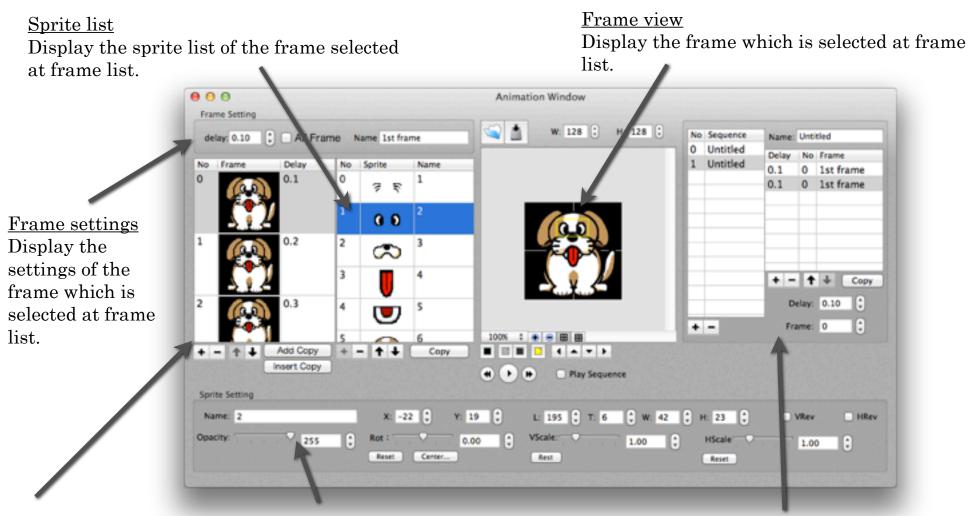
Float region can be made from a selected region. If there are many layers, you can make it on the active layer. Deselect the region to integrate the float region in the under image.



Drag the handle around a float region to change its shape.

## Animation window

You can open the animation window by selecting "animation window" from the menu. You can make an animation with the combination of the sprite patterns and an image. The animation you made here can be saved as GIF animation or QuickTime movie.



#### Frame list

Display the list of the saved frame.

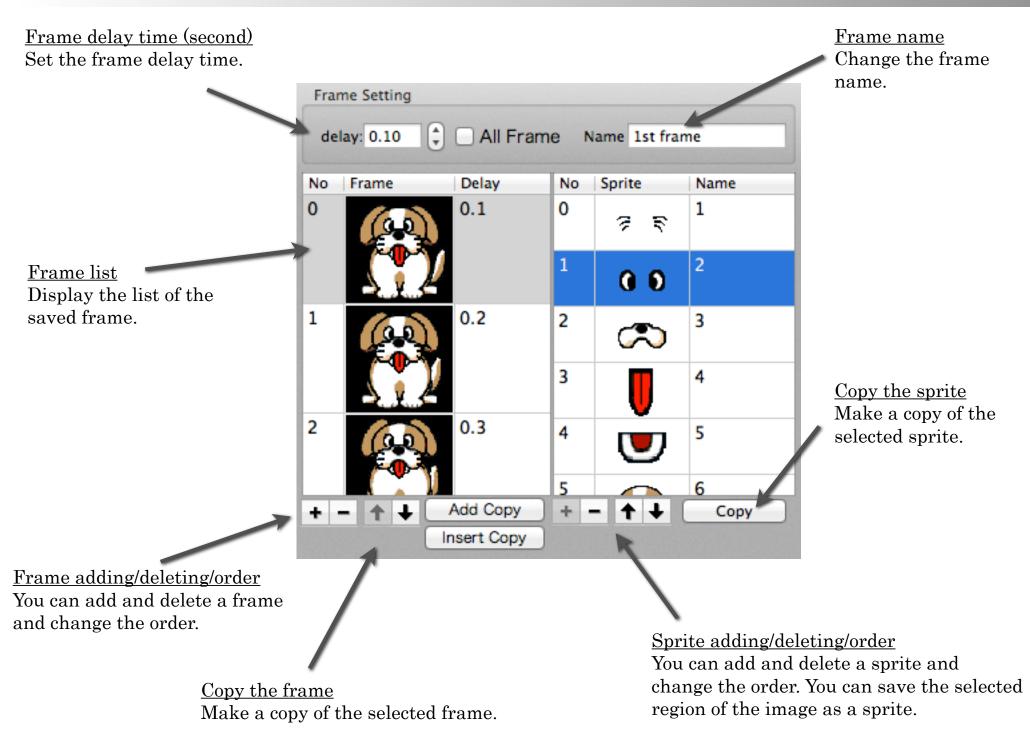
#### Sprite settings

Display the settings of the sprite which is selected at sprite list.

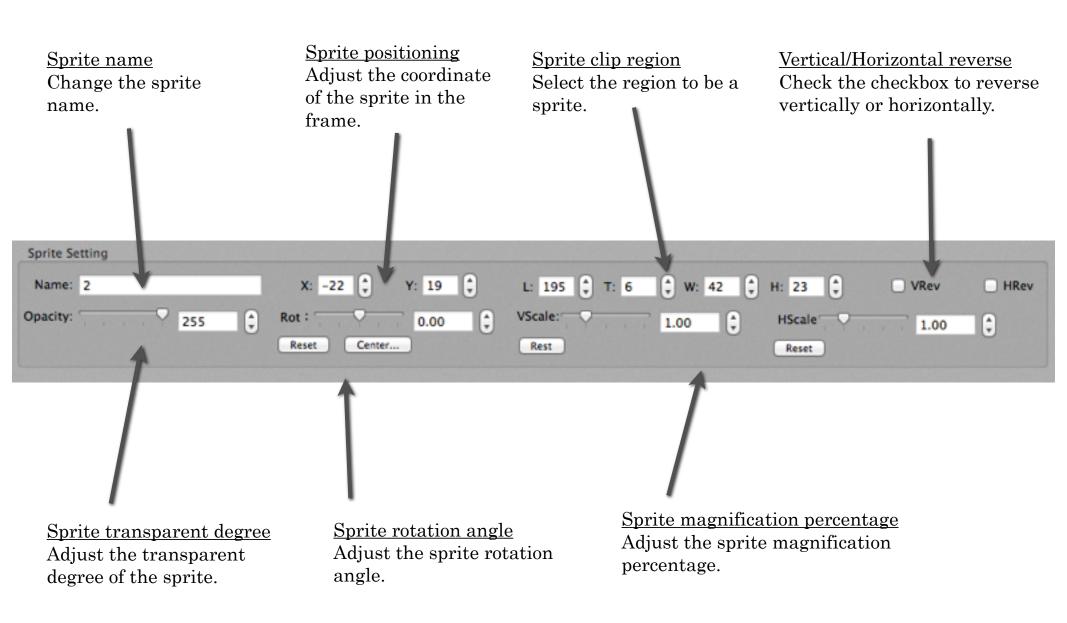
#### Sequence list

You can make the animation by combining the frames you selected.

## Animation window (Frame list)

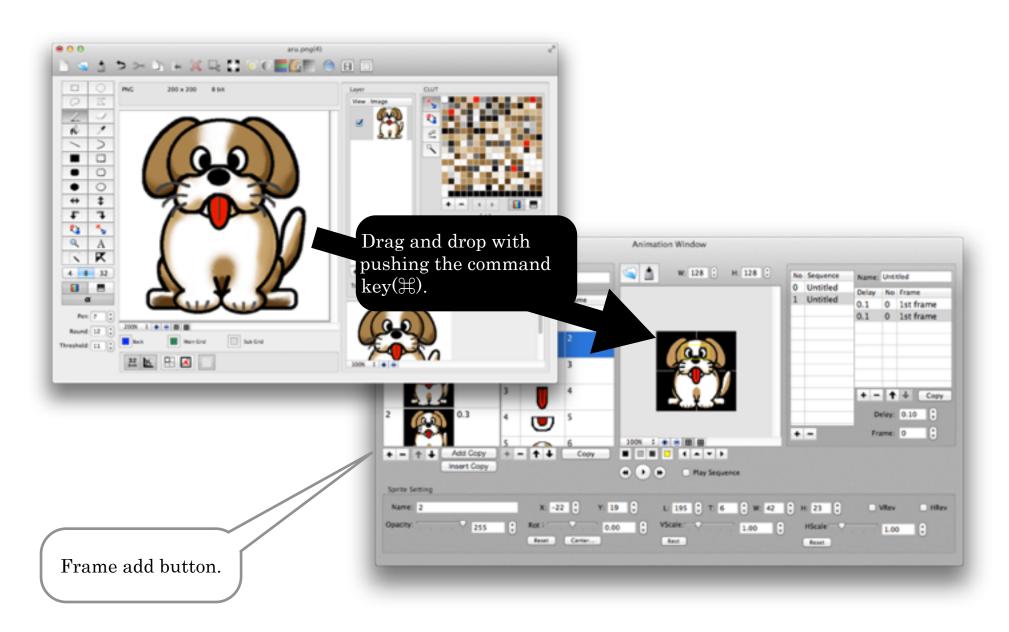


# Animation window (Sprite settings)



# Animation window (Sprite saving)

To save a sprite, select the region you want to save and drag and drop it to the frame view with pushing the command key(\mathfrak{H}). Or, just push the frame or sprite add button [+].



## Animation window (Frame view)

Open an animation data

Road the animation data

Read the animation data which is saved in DotShot format. The data can also be opened by dragging and dropping to the frame view.

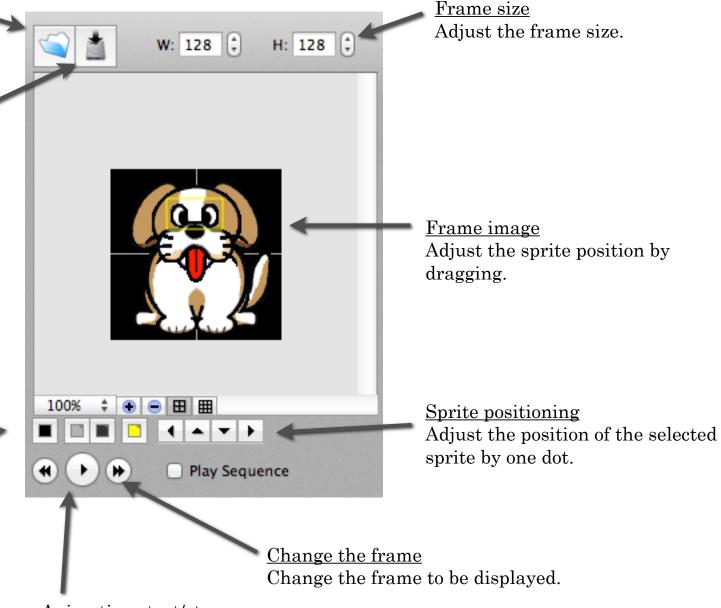
#### Save animation

You can save the animation in the below format;

- · DotShot animation data
- GIF animation
- · QuickTime movie
- Still image format

#### Color setting

Set the color of the frame background, grid and the sprite selection border.



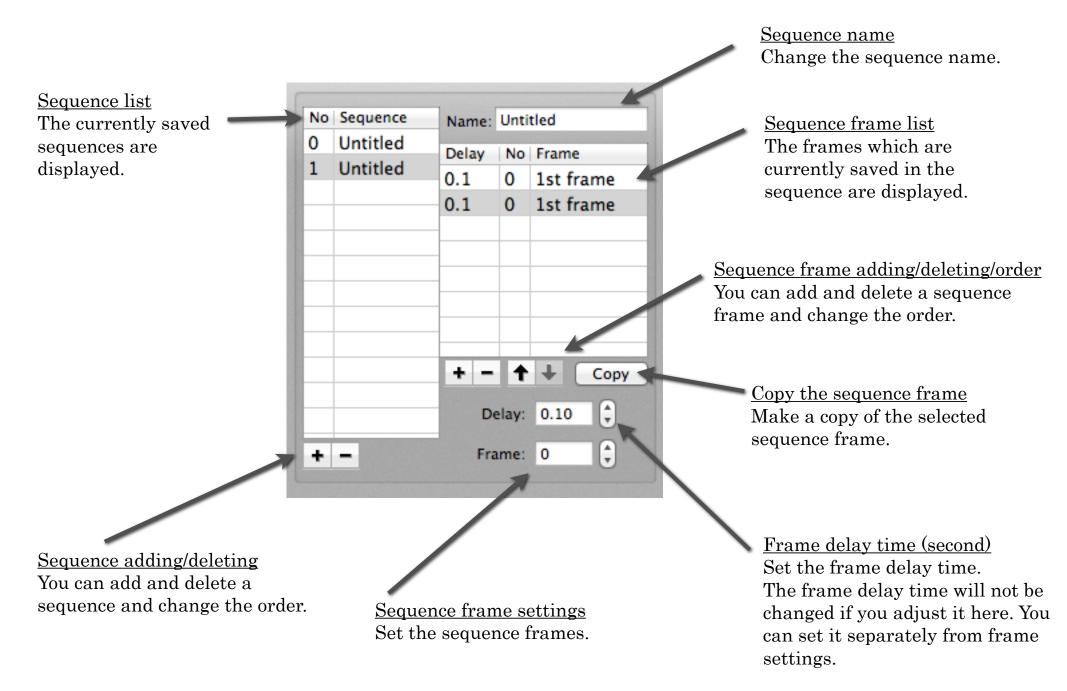
#### Animation start/stop

Start and stop the animation.

Check the checkbox and the frames at the sequence list will be played.

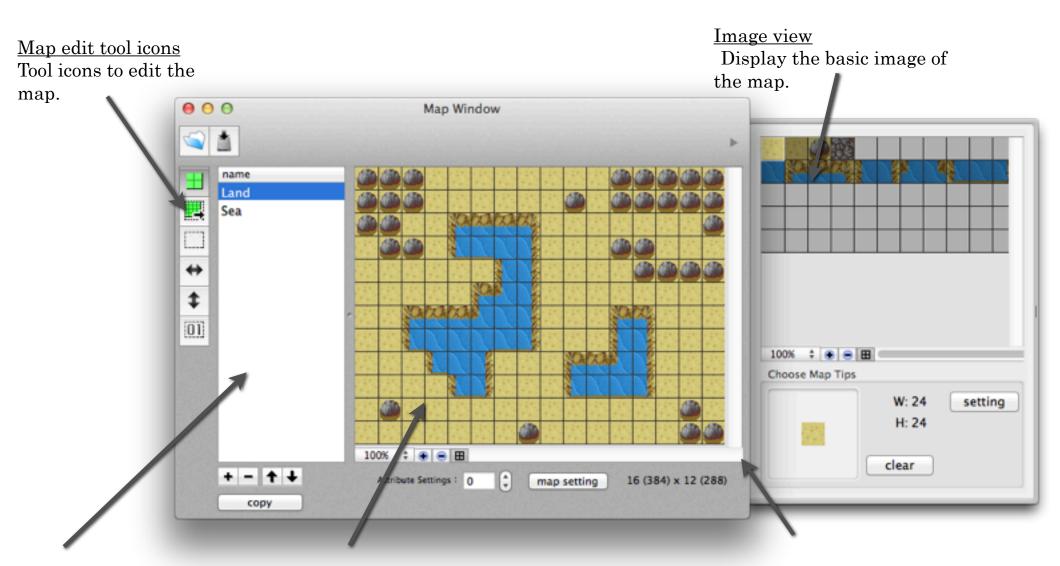
## Animation window (Sequence list)

You can make the animation pattern by selecting and combining the frames.



## Map window

You can open the map window by selecting "map window" from the select menu. You can make a map by lining up chips on a basic image and save it in the DotShotX's own map data format or the still image format.



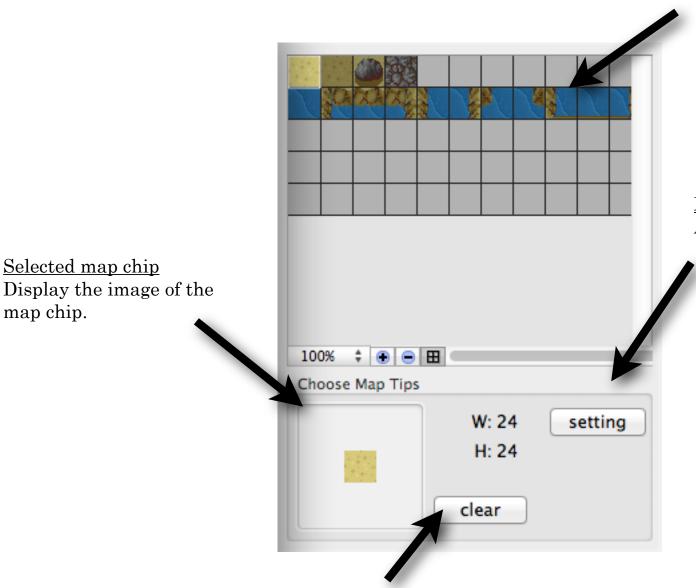
Map list
Display the list of the saved
maps.

Map view
Display the map image which is selected at map list.

Selected map chip

Display the chip you selected. You can place this chip on the map.

## Map window (Image view and selected map chip)



#### Image view

Display the basic image of the map. Click or drag over to select the "map chip" to place on the map.

Map chip size setting Adjust the map chip size.

#### Clear map chip setting

map chip.

You can make the normal map chip "clear map chip". When you place it on the map, the map looks like as if there is no chip on it.



# Map window (Map view)

#### Open a map data

Read the map data saved in the DotShot format.

#### Serial placement

Place chips serially by dragging on the map view.

#### Rectangle placement

Place the chips in the rectangular region you dragged over to select on the map view.

Selection (shifting and copy)
Shift the rectangular region you selected by dragging. Push the option key to make a copy of the region.

#### Reverse

Make the rectangular region you selected mirror-reversed or upside down.

#### Attribute setting

Set the figure to set attributes in the rectangular region you selected.

Map adding/deleting
You can add or delete a map.

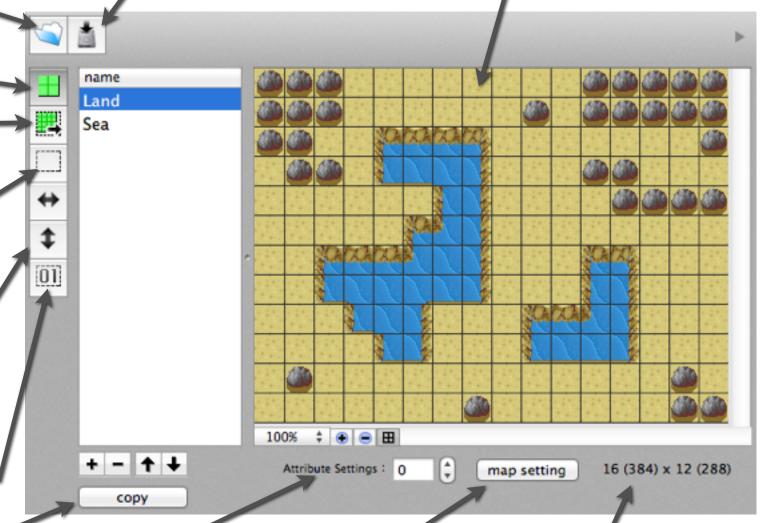
#### Map saving

You can save the map you made in the below format;

 $\hbox{\bf \cdot}\ DotShot\ map\ data\ format,\ still\ image\ format\\$ 

#### Map view

Display the map view.



#### <u>Attribute</u>

Set the figure to set attributes in the map chip.

Map settings
Adjust the map size (the number of the chips) and change the map name.

Map size
Display the number of the chips and the pixels used horizontally and vertically.

•Image file outline

Image file header 128 Bytes Image block n Bytes (written in header) Color palette block n Bytes (written in header) Extended data block n Bytes (written in header)

•Image file header (128 Bytes)

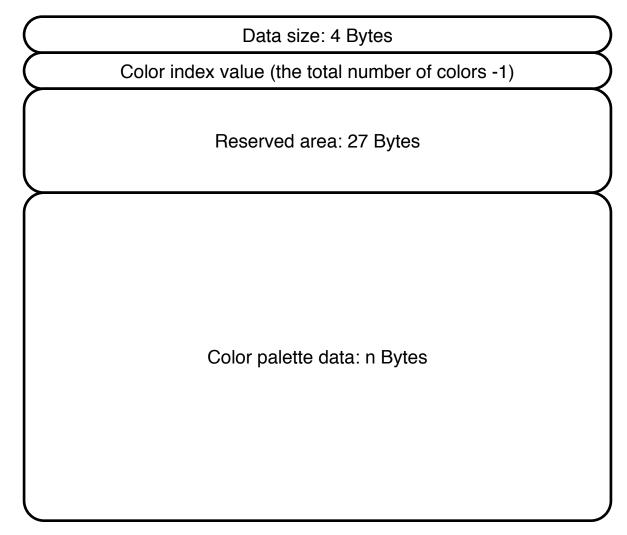
File ID: 4 Bytes = 'dots'	$\bigcup$
Version: 2 Bytes = 4	$\bigcup$
Flag: 1 Bytes	$\bigcup$
The designated transparent color of indexed color: 1 Byte	)
Bits per pixel: 1 Byte	$\bigcup$
Image width: 4 Bytes	$\bigcup$
Image height: 4 Bytes	$\bigcup$
The number of layers: 4 Bytes	$\bigcup$
Offset to the image data: 4 Bytes	$\bigcup$
Image data size: 4 Bytes	$\mathcal{L}$
The number of color palettes: 4 Bytes	$\mathcal{L}$
Offset to the color palette: 4 Bytes	$\bigcup$
Color palette size: 4 Bytes	)
Reserved area: 87 Bytes	

 $<sup>\</sup>star$  Setting bit0=1 at flag: activate the designation of indexed color.

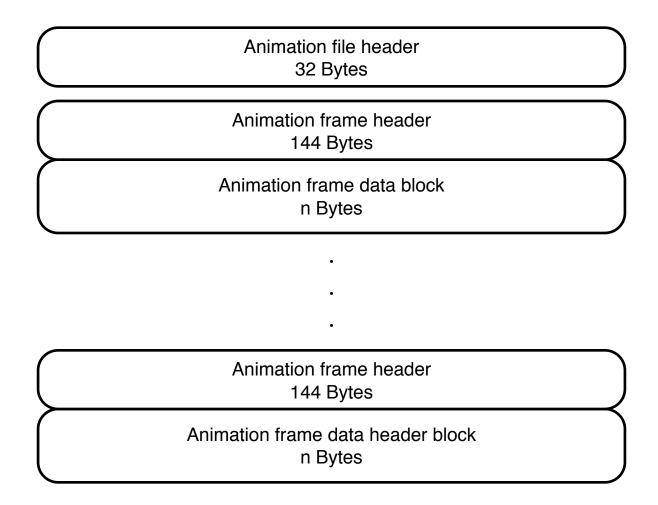
•Image block (image data per one layer)

Data size: 4 Bytes Opaque value: 1 Byte Flag: 1 Byte Reserved area: 58 Bytes Name bytes: 1 Byte Name: 255 Bytes Image data: n Bytes

•Color palette block (image data per one palette)



•Animation file outline



•Animation file header (32 Bytes)

File ID: 4 Bytes= 'DtAm'
Version: 1 Byte=1
Screen width: 2 Bytes
Screen height: 2 Bytes
Animation loop count: 2 Bytes
The number of frames: 2 Bytes
Image width: 2 Bytes
Image height: 2 Bytes
Reserved area: 15 Bytes

•Animation frame header (144 Bytes)

The number of sprites (255 at a maximum): 1 Byte

Frame delay time (in one-hundredth second): 4 Bytes

Flag: 1 Byte

Frame data size: 4 Bytes

Name bytes (127 at a maximum): 1 Byte

Frame name (UNICODE): 127 Bytes

Reserved area: 6 Bytes

•Animation frame data block

Sprite data block 256 Bytes

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Sprite data block 256 Bytes

Name bytes (127 at a maximum): 1 Byte Frame name (UNICODE): 127 Bytes Flag: 1 Byte Blank: 1 Bytes Opaque value: 1 Byte Blank: 1 Bytes X offset: 4 Bytes Y offset: 4 Bytes Left clipping position of the image: 2 Bytes Bottom clipping position of the image: 2 Bytes Image clipping width: 2 Bytes Image clipping height: 2 Bytes Rotation value (angle × 100): 4 Bytes Horizontal magnification percentage (x 100): 2 Bytes Vertical magnification percentage (x 100): 2 Bytes Rotation center X: 2 Bytes Rotation center Y: 2 Bytes Reserved area: 96 Bytes

\* The value is saved in big endian.

## DotShot map file format

•Map file outline

File ID: 4 Bytes= 'DtMI'

Version: 1 Byte=1

The number of maps: 1 Byte

The number of pixels used horizontally in a map chip.: 1 Bytes

The number of pixels used vertically in a map chip.: 1 Bytes

Image width: 2 Bytes

Image height: 2 Bytes

Map screen block n Bytes

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Map screen block n Bytes

Map screen file header 160 Bytes

Map chip data block 16 Bytes

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Map chip data block 16 Bytes

\* The value is saved in big endian.

# DotShot map file format

•Map screen file header (160 Bytes)

File ID: 4 Bytes= 'DtMp'
Version: 1 Byte=1
The number of chips used horizontally: 2 Bytes
The number of chips used vertically: 2 Bytes
The number of pixels used horizontally in a map chip.
The number of pixels used vertically in a map chip.
Name Bytes (127 at a maximum): 1 byte
Frame name (UNICODE): 127 Bytes
Image width: 2 Bytes
Image height: 2 Bytes
Map screen data size: 4 Bytes
Reserved area: 13 Bytes

## DotShot map file format

Map screen block

