

Music Editor:

The mode to edit musics in which the sounds are arranged in order of playback.



Other resource creation methods

Pyxel images and tilemaps can also be created in the following way:

- Create an image from a list of strings with Image.set or Tilemap.set function
- Load a png file in Pyxel palette with Image.load function

Pyxel sounds can also be created in the following way:

 Create a sound from strings with Sound.set or Music.set function

Please refer to the API reference for usage of these functions.

How to Create a Stand-Alone Executable

By using the attached Pyxel Packager, a stand-alone executable that will work even in environments where Python is not installed can be created.

To create a stand-alone executable, specify the Python file to be used to launch the application with the <code>pyxelpackager</code> command as follows:

pyxelpackager python_file

When the process is complete, a stand-alone executable is created in the dist folder.

If resources such as .pyxres and .png files are also necessary, put them under the <code>assets</code> folder and they will be included.

It is also possible to specify an icon with the -i icon_file option.

API Reference

System

width , height
 The width and height of the screen

• frame_count

The number of the elapsed frames

• init(width, height, [caption], [scale], [palette],

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[fps], [border_width], [border_color], [quit_key])
Initialize the Pyxel application with screen size (width ,
height). The maximum width and height of the screen is 256
It is also possible to specify the window title with caption , the
display magnification with scale , the palette color with
palette , the frame rate with fps , the margin width and color
outside the screen with border_width and border_color ,
and the key to quit the application with quit_key . palette is
specified as a list of 16 elements of 24 bit color, border_color
as 24 bit color.

e.g. pyxel.init(160, 120, caption="Pyxel with PICO-8 palette", palette=[0x000000, 0x1D2B53, 0x7E2553, 0x008751, 0xAB5236, 0x5F574F, 0xC2C3C7, 0xFFF1E8, 0xFF004D, 0xFFA300, 0xFFEC27, 0x00E436, 0x29ADFF, 0x83769C, 0xFF77A8, 0xFFCCAA], quit_key=pyxel.KEY_NONE)

• run(update, draw)

Start the Pyxel application and call **update** function for frame update and **draw** function for drawing

• quit()

Quit the Pyxel application at the end of the current frame

• flip()

Force drawing the screen (do not use in normal applications)

• show()

Draw the screen and wait forever (do not use in normal applications)

Resource

• save(filename)

Save the resource file (.pyxres) to the directory of the execution script

• load(filename, [image], [tilemap], [sound], [music])
Read the resource file (.pyxres) from the directory of the
execution script. If False is specified for the resource type
(image/tilemap/sound/music), the resource will not be loaded.

Input

mouse_x , mouse_y

The current position of the mouse cursor

btn(key)

Return **True** if **key** is pressed, otherwise return **False** (key definition list)

btnp(key, [hold], [period])

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Return True if key is pressed at that frame, otherwise return False. When hold and period are specified, True will be returned at the period frame interval when the key is held down for more than hold frames

btnr(key)

Return **True** if **key** is released at that frame, otherwise return **False**

mouse(visible)

If **visible** is **True**, show the mouse cursor. If **False**, hide it. Even if the mouse cursor is not displayed, its position is updated.

Graphics

• image(img, [system])

Operate the image bank img (0-2) (see the Image class). If system is True, the image bank for system can be accessed. 3 is for the font and resource editor. 4 is for the display screen e.g. pyxel.image(0).load(0, 0, "title.png")

• tilemap(tm)

Operate the tilemap tm (0-7) (see the Tilemap class)

• clip(x, y, w, h)

Set the drawing area of the screen from (x , y) to width w and height h . Reset the drawing area to full screen with clip()

• pal(col1, col2)

Replace color **col1** with **col2** at drawing. **pal()** to reset to the initial palette

• cls(col)

Clear screen with color col

• pget(x, y)

Get the color of the pixel at (x, y)

• pset(x, y, col)

Draw a pixel of color col at (x, y)

• line(x1, y1, x2, y2, col)

Draw a line of color col from (x1 , y1) to (x2 , y2)

• rect(x, y, w, h, col)

Draw a rectangle of width $\, w$, height $\, h \,$ and color $\, col \,$ from ($\, x \,$, $\, y \,$)

• rectb(x, y, w, h, col)

Draw the outline of a rectangle of width $\,\mathbf{w}\,$, height $\,\mathbf{h}\,$ and

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color col from (x, y)

• circ(x, y, r, col) Draw a circle of radius \mathbf{r} and color \mathbf{col} at (\mathbf{x}, \mathbf{y})

- circb(x, y, r, col) Draw the outline of a circle of radius r and color col at (x, **y**)
- tri(x1, y1, x2, y2, x3, y3, col) Draw a triangle with vertices (x1, y1), (x2, y2), (x3, y3) and color col
- trib(x1, y1, x2, y2, x3, y3, col) Draw the outline of a triangle with vertices (x1, y1), (x2, y2), (x3 , y3) and color col
- blt(x, y, img, u, v, w, h, [colkey]) Copy the region of size (w, h) from (u, v) of the image bank img(0-2) to (x, y). If negative value is set for w and/or h, it will reverse horizontally and/or vertically. If colkey is specified, treated as transparent color
- bltm(x, y, tm, u, v, w, h, [colkey]) Draw the tilemap tm (0-7) to (x, y) according to the tile information of size (w, h) from (u, v). If colkey is specified, treated as transparent color. A tile of the tilemap is drawn with a size of 8x8, and if the tile number is 0, indicates the region (0, 0)-(7, 7) of the image bank, if 1, indicates (8, 0)-(15, 0)
- text(x, y, s, col) Draw a string s of color col at (x, y)

Audio

• sound(snd, [system])

Operate the sound snd (0-63) (see the Sound class). If system is True, the sound 64 for system can be accessed e.g. pyxel.sound(0).speed = 60

- music(msc) Operate the music msc (0-7) (see the Music class)
- play_pos(ch) Get the sound playback position of channel ch . The 100's and 1000's indicate the sound number and the 1's and 10's indicate the note number. When playback is stopped, return -1
- play(ch, snd, loop=False) Play the sound snd (0-63) on channel ch (0-3). Play in order when snd is a list

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• playm(msc, loop=False)

Play the music msc (0-7)

• stop([ch])

Stop playback of all channels. If **ch** (0-3) is specified, stop the corresponding channel only

Image Class

• width , height

The width and height of the image

data

The data of the image (256x256 two-dimentional list)

• get(x, y)

Retrieve the data of the image at (x, y)

• set(x, y, data)

Set the data of the image at (${\bf x}$, ${\bf y}$) by a value or a list of strings

e.g. pyxel.image(0).set(10, 10, ["1234", "5678", "9abc", "defg"])

• load(x, y, filename)

Read the png image from the directory of the execution script at (\mathbf{x} , \mathbf{y})

copy(x, y, img, u, v, w, h)
 Copy the region of size (w, h) from (u, v) of the image bank img (0-2) to (x, y)

Tilemap Class

• width , height

The width and height of the tilemap

• data

The data of the tilemap (256x256 two-dimentional list)

• refimg

The image bank referenced by the tilemap

• get(x, y)

Retrieve the data of the tilemap at (x, y)

• set(x, y, data)

Set the data of the tilemap at (\mathbf{x} , \mathbf{y}) by a value or a list of strings.

e.g. pyxel.tilemap(0).set(0, 0, ["000102", "202122", "a0a1a2", "b0b1b2"])

• copy(x, y, tm, u, v, w, h)

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Copy the region of size (\mathbf{w} , \mathbf{h}) from (\mathbf{u} , \mathbf{v}) of the tilemap \mathbf{tm} (0-7) to (\mathbf{x} , \mathbf{y})

Sound Class

note

List of note(0-127) (33 = 'A2' = 440Hz)

tone

List of tone(0:Triangle / 1:Square / 2:Pulse / 3:Noise)

volume

List of volume(0-7)

• effect

List of effects(0:None / 1:Slide / 2:Vibrato / 3:FadeOut)

speed

The length of one note(120 = 1 second per tone)

• set(note, tone, volume, effect, speed)

Set a note, tone, volume, and effect with a string. If the tone, volume, and effect length are shorter than the note, it is repeated from the beginning

set_note(note)

Set the note with a string made of 'CDEFGAB'+'#-'+'0123' or 'R'. Case-insensitive and whitespace is ignored

e.g. pyxel.sound(0).set_note("G2B-2D3R RF3F3F3")

• set_tone(tone)

Set the tone with a string made of 'TSPN'. Case-insensitive and whitespace is ignored

e.g. pyxel.sound(0).set_tone("TTSS PPPN")

• set_volume(volume)

Set the volume with a string made of '01234567'. Case-insensitive and whitespace is ignored

e.g. pyxel.sound(0).set_volume("7777 7531")

set_effect(effect)

Set the effect with a string made of 'NSVF'. Case-insensitive and whitespace is ignored

e.g. pyxel.sound(0).set_effect("NFNF NVVS")

Music Class

• ch0

List of sound(0-63) play on channel 0. If an empty list is specified, the channel is not used for playback

• ch1

List of sound(0-63) play on channel 1. If an empty list is

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specified, the channel is not used for playback

ch2

List of sound(0-63) play on channel 2. If an empty list is specified, the channel is not used for playback

ch3

List of sound(0-63) play on channel 3. If an empty list is specified, the channel is not used for playback

• set(ch0, ch1, ch2, ch3)

Set the list of sound(0-63) of all channels. If an empty list is specified, that channel is not used for playback

e.g. pyxel.music(0).set([0, 1], [2, 3], [4], [])

• set ch0(data)

Set the list of sound(0-63) of channel 0

set_ch1(data)

Set the list of sound(0-63) of channel 1

• set_ch2(data)

Set the list of sound(0-63) of channel 2

• set_ch3(data)

Set the list of sound(0-63) of channel 3

How to Contribute

Submitting an issue

Use the issue tracker to submit bug reports and feature/enhancement requests. Before submitting a new issue, search the issue tracker to ensure that there is no similar open issue.

When submitting a report, select the appropriate template from this link.

Manual testing

Anyone manually testing the code and reporting bugs or suggestions for enhancements in the issue tracker are very welcome!

Submitting a pull request

Patches/fixes are accepted in form of pull requests (PRs). Make sure the issue the pull request addresses is open in the issue tracker.

Submitted pull request is deemed to have agreed to publish under MIT license.

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