

S P L O R E P R O T O C O L

This unofficial document describe the Pico-8 SPLORE http protocol for listing and downloading cartridges.

CARTRIDGE LISTING REQUEST URL		
https://{server:port}/bbs/cpost_lister3.php		
QUERY STRING PARAMETERS		
NAME	TYPE	DESCRIPTION
max	Integer	Number of cartridge returned. must be between 1 and 32
start_index	Integer	Index of the first cartridge returned. must be between 1 and (t - max) where t is the total number of cartridge in library
cat	Integer	Must be 7 corresponding to Pico-8 category on BBS
sub	Integer	0 = {Unknown} 1 = {Unknown} 2 = New 3 = Work In Progress 4 = Collaboration 5 = {Unknown} 6 = {Unknown} 7 = {Unknown} 8 = Jam
version	String	Version of Pico-8 Client Currently "000202cw"

cfil	Integer	Unknown must be 0
orderby	String	Sort order "" = Sort by date "rating" = Sort by featured

SAMPLE

```
GET /bbs/cpost_lister3.php?
max=32&start_index=0&cat=7&sub=2&version=000202cw&cfil=0 HTTP/1.1
User-Agent: pico-8
Host: 127.0.0.1
```

LISTING RESPONSE

Server respond by sending 1024x544 PNG
(content-type: image/png)

Format described in the appendix

CARTRIDGE INFO REQUEST URL

https://{server:port}/bbs/cpost_lister3.php

QUERY STRING PARAMETERS

NAME	TYPE	DESCRIPTION
nfo	Integer	Must be 1
version	String	Version of Pico-8 Client Currently "000202cw"
lid	String	Game id returned by listing request eg:"moonrace"

SAMPLE

```
GET /bbs/cpost_lister3.php?nfo=1&version=000202cw&lid=moonrace HTTP/1.1
User-Agent: pico-8
Host: 127.0.0.1
```

LISTING RESPONSE

SAMPLE

```
lid:moonrace-0
mid:moonrace
title:moonrace
author:benjamin_soule
ts:2020-12-25 19:12:24
catsub:1794
```

FIELDS

lid	String	Cartridge ID
mid	String	Cartridge Sub ID
title	String	Cartridge Title

author	String	Cartridge Author
ts	Date	Cartridge Publish Date
catsub	Integer	Cartridge Category

CARTRIDGE DOWNLOAD REQUEST URL

`https://{server:port}/bbs/get_cart.php`

QUERY STRING PARAMETERS

NAME	TYPE	DESCRIPTION
cat	Integer	Must be 7 corresponding to Pico-8 category on BBS
play_src	Integer	Unknown Currently 2
lid	String	Cartridge id returned by listing request eg: "moonrace"

SAMPLE

```
GET /bbs/get_cart.php?cat=7&play_src=2&lid=moonrace HTTP/1.1
User-Agent: pico-8
Host: 127.0.0.1
```

LISTING RESPONSE

Server respond by sending 160x205 P8.PNG of the cartridge
(content-type: image/png)

S P L O R E L I S T I N G P N G

SPLORE server respond to listing queries by sending a formatted PNG that include thumbs and cartridge info.



*Sample PNG

Each cartridge is represented by a 128x128 thumbnail (screenshot of the game / thumbnail of the P8.PNG cartridge). below the thumbnail are 8 pixel lines where the information is hidden.

Each point is represented by 4 bytes R(red)G(green)B(lue)A(alpha). Each point represents an ascii character copied in each color channel. Alpha must be set to 255.

Sample:

	0	1	2	3	4	5	6	7	8	9	10	11	12	...	127
R channel	G	A	M	E	-	I	D	0	0	0	0	0	0	...	0
G channel	G	A	M	E	-	I	D	0	0	0	0	0	0	...	0
B channel	G	A	M	E	-	I	D	0	0	0	0	0	0	...	0
A channel	255	255	255	255	255	255	255	255	255	255	255	255	255	...	255

The 8 Lines can be described as follow:

Line 0: 333 {cart index} {cart category} 0 0 {cart date}
Line 1: {cart title}
Line 2: {author}
Line 3: {cart lid}
Line 4: {cart mid}
Line 5:
Line 6:
Line 7:

Sample:

```
333 80122 1800 0 0 2021-02-20 10:37:45\0
Cartridge01 \0
Author Name\0
cartridge-01\0
cartridge01\0
\0
\0
\0
\0
```