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Splitting the output console - possible?

Faisal Ahmad

Ranch Hand

Posts: 355

I like...



📅 posted 9 years ago

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Hi ranchers!
Is it possible to split the output console, say - in 2 parts, for updating each part separately?
Imagine 2 threads, each updating one of the parts.
Thanks!

PS: There shouldn't be any visual separation in between the parts!
An example:
23% **

Above, 23% is one part and * is another part. They will be continuously updated until they become:
100% *****
Hint: Progress bar.

Deepak Bala

Bartender

Posts: 6663

I like...



📅 posted 9 years ago

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Its possible. Write a program that uses C to write to VGA memory directly and then call the C code using JNI. Out of the scope of discussion of SCJP though.

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Barry Gaunt

Ranch Hand

Posts: 7729

📅 posted 9 years ago

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That's right on, John! That is, about the topic choice.
[April 15, 2007: Message edited by: Barry Gaunt]

[Ask a Meaningful Question](#) and [HowToAskQuestionsOnJavaRanch](#)
Getting someone to think and try something out is much more useful than just telling them the answer.

Stefan Wagner

Ranch Hand

Posts: 1923

I like...



📅 posted 9 years ago

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Don't write to System.out, but to a buffering class, which handles the output.

```
1      C.In1
2  A--- /--\
3      |  |
4      |--|--- C.output --> System.out
5      |  |
6  B--- \--/
7      C.In2
```

<http://home.arcor.de/hirnstrom/bewerbung>

Faisal Ahmad

Ranch Hand

Posts: 355

I like...



📅 posted 9 years ago

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“

Originally posted by Stefan Wagner:
Don't write to System.out, but to a buffering class, which handles the output.

Thanks for the help. You mean, without JNI? Please give me some more hints.
Some startup code would be more helpful.

Thanks again.
PS: Your signature made me laugh! Hehe..nice logic though. 😊

Faisal Ahmad

Ranch Hand

Posts: 355

I like...



📅 posted 9 years ago

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And again, is it possible to see the real-time updates of the buffer?
Please look here:

```
laiha# bar -n erwin-2.0.275.tar.gz | tar xzpf -
19% [=====█.....]
```

A post related with this topic is [here](#).

Stan James

(instanceof Sidekick)
Ranch Hand

Posts: 8791

📅 posted 9 years ago

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You can try to send a bunch of backspace characters (0x08) to wipe out the current text, then rewrite it. That more or less works in Windows, don't know about *nix or any other environments.

A good question is never answered. It is not a bolt to be tightened into place but a seed to be planted and to bear more seed toward the hope of greening the landscape of the idea. John Ciardi

marc weber

Sheriff

Posts: 11343

I like...



📅 posted 9 years ago

+1👍Quote🗨️Report🚩

“
Originally posted by Stan James:
You can try to send a bunch of backspace characters (0x08) to wipe out the current text, then rewrite it. That more or less works in Windows, don't know about *nix or any other environments.

\r works in Windows and Mac (which is Unix based). This is just a return -- you would then need to overwrite what was on that line. See how this looks...

```
1  class SpinCycle {
2      public static void main(String[] args) {
3          for(int x = 0; x < 15; x++) {
4              try {
5                  System.out.print("\r | | |");
6                  Thread.sleep(75);
7                  System.out.print("\r / / /");
8                  Thread.sleep(75);
9                  System.out.print("\r - - -");
10                 Thread.sleep(75);
11                 System.out.print("\r \\ \\ \\");
12                 Thread.sleep(75);
13             }
14             catch (Exception e) {
15                 System.err.println(e);
16             }
17         }
18         System.out.println("\r          ");
19     }
20 }
```

"We're kind of on the level of crossword puzzle writers... And no one ever goes to them and gives them an award." ~Joe Strummer
sscce.org

marc weber

Sheriff

Posts: 11343

I like...



📅 posted 9 years ago

+1👍Quote🗨️Report🚩

“
Originally posted by Faisal Pasha:
...A post related with this topic is [here](#).

Please don't cross-post.

I think you're making this overly complicated. Why would you use separate threads to update each "part" of the String? The numeric representation (23%) and the bar display (*****) are both based on the same value, so all you need is to build a String based on this value.
[April 15, 2007: Message edited by: marc weber]

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Stefan Wagner

Ranch Hand

Posts: 1923

I like...

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Yes - marc, I agree.

I had concentrated on this question, and didn't mention, that the real problem is to update the same line.



Your code is nice portable - this one:

```
1  import java.util.Random;
2  /**
3  AnsiMove
4
5  @author Stefan Wagner
6  @date Mo 16 Apr 04:44:07 CEST 2007
7
8  */
9  public class AnsiMove
10 {
11     public AnsiMove ()
12     {
13         Random random = new Random ();
14         System.out.print ("[2J");
15
16         for (int i = 0; i < 10000; ++i)
17         {
18             int y = random.nextInt (23) + 1;
19             int x = random.nextInt (79) + 1;
20             char c = (char) (random.nextInt (95) + 32);
21
22             gotoXY (x, y);
23             System.out.print (c);
24             pause (1);
25         }
26     }
27
28     void pause (int p)
29     {
30         try
31         {
32             Thread.sleep (p);
33         }
34         catch (InterruptedException e)
35         {
36             System.err.println (e);
37         }
38     }
39
40     void gotoXY (int x, int y)
41     {
42         System.out.print ("[" + y + ';' + x + 'H');
43     }
44
45     public static void main (String args[])
46     {
47         new AnsiMove ();
48     }
49 }
```

needs Ansi.sys loaded on Windows, runs without any installation on most linuxes, and I don't know for mac, solaris, ...

<http://home.arcor.de/hirnstrom/bewerbung>

Faisal Ahmad

Ranch Hand

Posts: 355

I like...



posted 9 years ago



Thanks for your posts!

Could you please show output? Please reduce the value in for loop, to <100.

Faisal Ahmad

Ranch Hand

Posts: 355

I like...



posted 9 years ago



Thanks a lot guys! Here is my output:

```
1  class SpinCycle {
2      public static void main(String[] args) {
3          StringBuilder s = new StringBuilder();
4          int y = 0;
5          System.out.println("faisal#rpm -ivh foo.rpm");
6          for(int x = 0; x <= 100; x++) {
7              try {
8                  if(x%2==0){
9                      s.append("#");
10                 }
11
12                 System.out.print("\r"+x+"%"+"s+"|");
13                 Thread.sleep(80);
14                 System.out.print("\r"+x+"%"+"s+"/");
15                 Thread.sleep(80);
16                 System.out.print("\r"+x+"%"+"s+"-");
17                 Thread.sleep(80);
18                 y = x;
19             }
20             catch(Exception e) {
21                 System.err.println(e);
22             }
23         }
24         System.out.print("\r");
25         System.out.println("\r"+y+"%"+"s);
26         System.out.println("faisal#");
27     }
28 }
```

```
1  faisal#rpm -ivh foo.rpm
2  100% #####
3  faisal#
```

Note: I am not working in *nix. It's just fancy output! 😊
Well, thanks a ton!

Deepak Bala
Bartender
Posts: 6663

📅 posted 9 years ago

+1 + Wow Quote Report

5 🐼
I like...
🐼 🐼 🐼

“

Originally posted by marc weber:

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10                 Thread.sleep(75);
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17         }
18         System.out.println("\r      ");
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20 }
```

Cool I learnt something new 😊

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