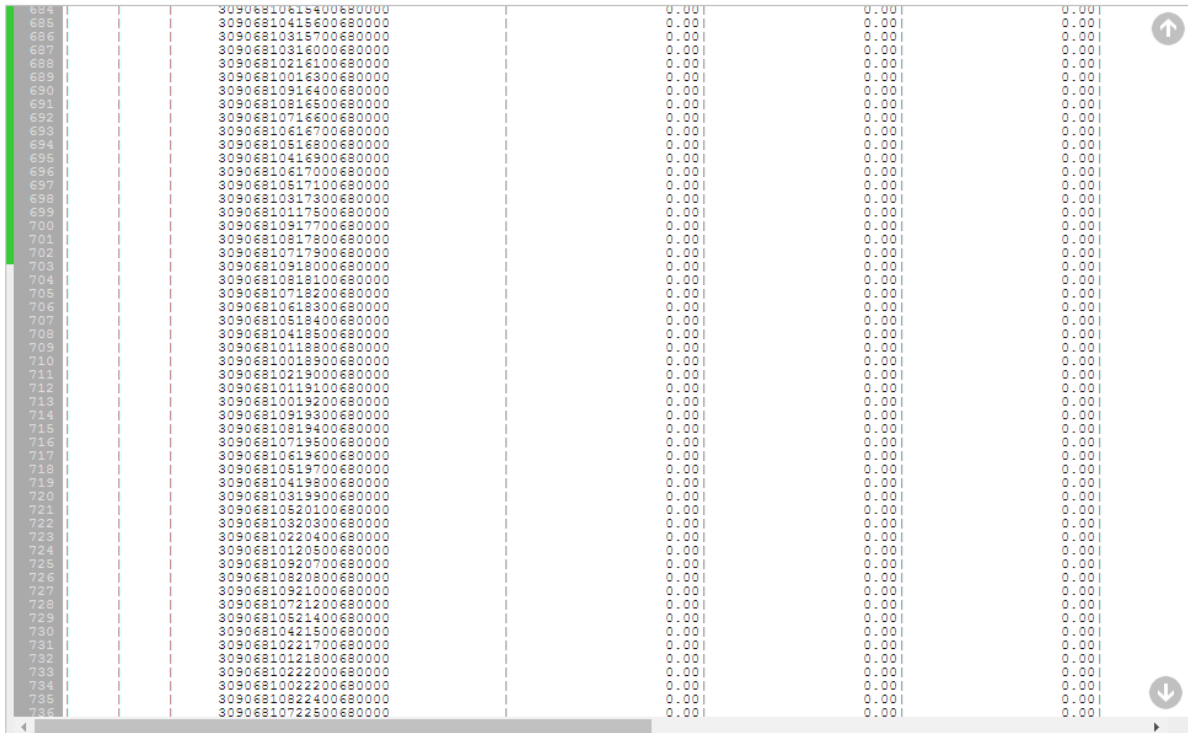


Lazy Text View widget



684	30906810615400680000	0.00	0.00	0.00
685	30906810415600680000	0.00	0.00	0.00
686	30906810315700680000	0.00	0.00	0.00
687	30906810315800680000	0.00	0.00	0.00
688	30906810215900680000	0.00	0.00	0.00
689	30906810016300680000	0.00	0.00	0.00
690	30906810916400680000	0.00	0.00	0.00
691	30906810816500680000	0.00	0.00	0.00
692	30906810716600680000	0.00	0.00	0.00
693	30906810616700680000	0.00	0.00	0.00
694	30906810516800680000	0.00	0.00	0.00
695	30906810416900680000	0.00	0.00	0.00
696	30906810617000680000	0.00	0.00	0.00
697	30906810517100680000	0.00	0.00	0.00
698	30906810317300680000	0.00	0.00	0.00
699	30906810117500680000	0.00	0.00	0.00
700	30906810917700680000	0.00	0.00	0.00
701	30906810817800680000	0.00	0.00	0.00
702	30906810717900680000	0.00	0.00	0.00
703	30906810918000680000	0.00	0.00	0.00
704	30906810818100680000	0.00	0.00	0.00
705	30906810718200680000	0.00	0.00	0.00
706	30906810618300680000	0.00	0.00	0.00
707	30906810518400680000	0.00	0.00	0.00
708	30906810418500680000	0.00	0.00	0.00
709	30906810118800680000	0.00	0.00	0.00
710	30906810018900680000	0.00	0.00	0.00
711	30906810219000680000	0.00	0.00	0.00
712	30906810119100680000	0.00	0.00	0.00
713	30906810019200680000	0.00	0.00	0.00
714	30906810919300680000	0.00	0.00	0.00
715	30906810819400680000	0.00	0.00	0.00
716	30906810719500680000	0.00	0.00	0.00
717	30906810619600680000	0.00	0.00	0.00
718	30906810519700680000	0.00	0.00	0.00
719	30906810419800680000	0.00	0.00	0.00
720	30906810319900680000	0.00	0.00	0.00
721	30906810520100680000	0.00	0.00	0.00
722	30906810320300680000	0.00	0.00	0.00
723	30906810220400680000	0.00	0.00	0.00
724	30906810120500680000	0.00	0.00	0.00
725	30906810520700680000	0.00	0.00	0.00
726	30906810820800680000	0.00	0.00	0.00
727	30906810921000680000	0.00	0.00	0.00
728	30906810721200680000	0.00	0.00	0.00
729	30906810521400680000	0.00	0.00	0.00
730	30906810421500680000	0.00	0.00	0.00
731	30906810221700680000	0.00	0.00	0.00
732	30906810121800680000	0.00	0.00	0.00
733	30906810222000680000	0.00	0.00	0.00
734	30906810022200680000	0.00	0.00	0.00
735	30906810822400680000	0.00	0.00	0.00
736	30906810722500680000	0.00	0.00	0.00

Screenshot

What does it do and how it works

Lazy Text View widget is intended to display text on a web-page. The key feature is that it does not load whole text in the browser memory, but it displays only fragment (frame) of file. This allows to display large, very large, huge texts. The widget allows to scroll text up and down using `arrow` keys, `PgUp`, `PgDn`, `Home`, `End` as well as using mouse. On the left side line numbers are displayed and green indicator, which displays the current view position. Unfortunately, current version supports incremental scrolling only, it doesn't have vertical scrollbar, which could allow to jump to any random view position.

Requirements

Lazy Text View widget is written using JavaScript and jQuery. So, it is required to include jQuery. Widget was tested with jQuery v. 1.4.1. Also jquery-mousewheel and jquery-toaster plugins are required.

Architecture

The widget provides user interface for text display and requires server-side data source. You have to implement server-side component yourself, it's logic is quite simple. When the widget needs next chunk of text, it queries server (using POST-method) for the next chunk. The request specifies data source ID, starting number of string and quantity of requested strings. Also request specifies a direction: forward or reverse. So, you have to write program (servlet, controller etc...), which would be able to output some number of text strings starting from specified string in forward or reverse direction. You may use any programming language: Java, PHP, Python.... it doesn't matter. Your controller just must accept POST-request and output JSON-data. The widget accepts data in JSON format. The structure of request and expecting JSON-data are described below.

Embedding widget to web-page

Embedding is quite simple. Sample code is below:

```
<html>
  <head>
    <!-- STEP 1: Include needed scripts and CSS -->
    <script type="text/javascript" src="jquery.js" ></script> <-- Include jQuery
-->
    <script type="text/javascript" src="jquery.mousewheel.js" > <-- Include
jQuery Mouse Wheel support -->
    <script type="text/javascript" src="jquery.toaster.js" > <-- Include jQuery
Toaster support -->
    <script type="text/javascript" src="lazyviewer.js"></script> <-- Include Lazy
View widget script -->
    <script type="text/javascript" src="lazyvwajax.js"></script> <-- Include Lazy
View ajax executor script -->

    <link rel="stylesheet" href="lazyviewer.css"> <-- Include Lazy View widget
CSS -->
    <link rel="stylesheet" href="toaster.css"> <-- Include jQuery Toaster CSS -->
    ...

  </head>
  <body>

    ...

    <!-- STEP 2: Create a placeholder for widget -->
    <div id="lazyviewer" class="lazyview" ></div>

    ...

    <script type="text/javascript" language="javascript" >

      // STEP 3: Run Lazy View widget
      var lzv = new LazyViewer("lazyviewer", "/resources/img/");
      lzv.init(10, "lzv.htm", lzvSessId, autoSize);

    </script>
```

STEP 1: Include needed scripts and CSS

Include jquery.js, jquery.mousewheel.js, jquery.toaster.js scripts to your page.
Also include lazyviewer.js and lazyvwajax.js scripts - main LZV widget scripts.
Also include toaster.css and lazyviewer.css.

STEP 2: Create a placeholder for widget

Create a `<div>` tag in your HTML code. This `<div>` will host future widget. The `<div>` must have some ID and compulsory class `lazyview`. The ID is specified in widget constructor to connect widget with `<div>` (see STEP 4).

STEP 3: Initialize LZV widget

Just call the following script:

```
var lzv = new LazyViewer("lazyviewer", "/resources/img/");
lzv.init(10, "lzv.htm", lzvSessId, autoSize);
```

The script constructs and initializes LZV widget. Constructor receives 2 arguments:

1. ID of `<div>`-placeholder (see STEP 3)
2. download path to folder containing images `u.gif` and `v.gif`. Images are stored in widget distributive archive.

Function `init()` has 4 parameters:

1. margin of widget (in pixels)
2. URL of server-side controller, which gives strings of text
3. data source ID (`lzvSessId`)
4. `autoSize` - boolean flag, which enables automatic resize (see below)

Data source ID links server-side data source with client-side widget. When widget queries server for some text to display, it needs to specify which text it requires. It may be some name of text file, may be a date of a logfile etc... some value, which identifies displaying text.

Server-side controller

When the widget needs next chunk of text, it queries server (using POST-method) for the next chunk. The request specifies data source ID, starting number of string and quantity of requested strings. Also request specifies a direction: forward or reverse. So, you have to write program (servlet, controller etc...), which would be able to output some number of text strings starting from specified string in forward or reverse direction. You may use any programming language: Java, PHP, Python.... it doesn't matter. Your controller just must accept POST-request and output JSON-data.

POST-request to server contains 4 fields:

1. `id` - data source ID. The type is string.
2. `ix` - starting number of string (zero-based). If `ix` is set to -1, this means the last string of text. The type is integer number.
3. `cnt` - count of requested strings. The type is integer number.
4. `dir` - direction. It may contain one of two values: "F" or "R". "F" means forward, "R" means reverse. The type is string.

Note, `ix` specifies the starting number of string in text. It is zero-based. Also "`ix`" can be set to -1, this means the last string of text. Widget requests last strings of text when user presses `End` key. So, your controller should be able to find the beginning of the last string. Sometimes it is not easy while working with streaming texts.

Data structure

Server-side controller should return JSON data in the following structure:

```
{ "data" : {
  "id" : data_source_id,
  "count" : string_count,
  "dir" : direction,
  "end" : last_index,
  "items" : [
    { "ix" : 0,    "txt" : "string one" },
    { "ix" : 1,    "txt" : "string two" },
    { "ix" : 2,    "txt" : "string three" }
    . . . . .
  ]
}
```

- `id` - data source ID
- `count` - count of strings in "items" collection
- `dir` - direction. It may contain one of two values: "F" or "R". "F" means forward, "R" means reverse
- `end` - last index of whole text (whole text, not chunk!).
- `items` - collection of strings

Each string is described by 2 fields:

- `ix` - index of string (zero-based)
- `txt` - string value

Widget distributive contains "java" folder, which contains Java-files, describing serializable data compatible with LZV.

Resize modes

The widget supports 2 resize modes. The mode is controlled by parameter #4 of `init()` function (see STEP 3). If this parameter (`autoSize`) is set to `true`, widget automatically resizes to fit whole screen. In this mode widget must have no neighbour elements on the right, on the left and on the bottom. Widget sets it's width equal to width of browser window and aligns it's bottom border to the browser bottom border.

If autosize mode is disabled, widget is resized as common HTML element (`<div>`), so, you have to control it's size using script and CSS. It is recommended to call widget's `.onResize()` function when widget is resized. This function repositions widget and it's elements.

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