Timeline
See also TimeMap

What
This project is to add a nice graphical way to represent relevant data in a timeline. The first iteration was added to Tiki in Tiki7 using tracker data and the no-longer-maintained Timeline Simile widget. This method has been working but seems to currently have issues. See a (currently broken) example at TikiFest Timeline and docs at PluginTrackerTimeline. New in Tiki 17, the H5P library includes a horizontal timeline feature; vertical timeline solutions still need to be found. Tiki native solutions are also described below.

Some Previous Research
Added since the earlier 2011 research, here are more ideas and possible libraries. But it seems that H5P for elaborate timelines and Tiki native solutions for simple ones may be the way to go, for horizontal timelines anyway.

Desired features:

- Click/touch and drag parallax-movement time scales (year, month, day, etc.) like Simile's.

Horizontal timelines:

  "You can easily create the horizontal timeline with two types by using this jQuery plugin". The two types are bar type (events are independent) and point type (events are points connected by lines to show relationship). MIT license.
- https://github.com/ilkeryilmaz/timelinejs
  Has vertical option. MIT license.
- Timeline - http://timeline.knightlab.com Git page
  "TimelineJS is an open-source tool that enables anyone to build visually rich, interactive timelines. TimelineJS 3 is a rewrite of the popular Timeline JS software." (Maybe disqualified by Mozilla Public License (MPL), version 2.0.)

Vertical timelines:

- Timeliner https://github.com/technotarek/timeliner
  Supports both horizontal and vertical

Some Initial Research *(jb feb 2011)*

It looks to me like the only real choice is the SIMILE Widgets one, the only other one that i've found from random searching and the links below, is the Google one which uses Flash and doesn't seem to offer as much.

My main reservation about the SIMILE one is that it seems to have jQuery 1.2.6 embedded in it (seemingly in the middle of what looks like a required file) and also has it's own, fairly bulky, AJAX library - which is surely duplication of the one in jQuery. Maybe this is optional - more research needed.

It says in one of the source files: "*this JS code was written before some recent JS support libraries became widely used or available*" and it all doesn't seem to have been worked on for several years. Having said that, the code does look like it's written to a very high standard, as you'd expect from MIT 😊

However, as this does seem to be the only option, let's see how far we get...

**Timeline layouts**

**Horizontal Timelines**

**H5P**

H5P is integrated in Tiki since v. 17 an the timeline is added in 5 minutes maximum. After the first import you can create arbitrary timelines and include everywhere in Tiki via a tiny WikiPlugin `{h5p fileID="XYZ"}` see also: (doc:(H5P)) (including a quick HowTo and (doc:(PluginH5P)).

There is no interaction with Trackers to fetch data implemented yet, but coders have said this would be likely to coming midterm. H5P timeline implements Timeline.js (link listed below). Midterm this will be the future solution when comes to a Tracker based timeline, once we make it able to handle tracker records, etc.. Easy to setup and to use right away already from first versions of Tiki 17 +.

**Plugin List**

It is possible to use the plugin List to create a timeline using some CSS but no additional JavaScript.

**Horizontal Timeline demo**
<table>
<thead>
<tr>
<th>Date</th>
<th>Issue Description</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>23 Feb 20</td>
<td>Way more files in my file directory than in my file gallery</td>
<td>20.x</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20.x Regression</td>
</tr>
<tr>
<td>23 Feb 20</td>
<td>Plugin insert / editing inline is broken (regression)</td>
<td>21.x</td>
</tr>
<tr>
<td>22 Feb 20</td>
<td>Fresh install sets default directories for file storage which do not exist on fresh installs</td>
<td>21.x</td>
</tr>
<tr>
<td>22 Feb 20</td>
<td>&quot;Add or remove from a group&quot; is broken in User management</td>
<td>21.x</td>
</tr>
<tr>
<td>22 Feb 20</td>
<td>File Galleries: very long gallery name causes fatal error</td>
<td>20.x</td>
</tr>
<tr>
<td></td>
<td></td>
<td>21.x</td>
</tr>
<tr>
<td>22 Feb 20</td>
<td>clicking on marker of geolocated wiki page on a map produces no popup box anymore (loading...)</td>
<td>18.x Regression</td>
</tr>
<tr>
<td>22 Feb 20</td>
<td>geolocated tracker items not shown in map any more in Profile GeoCMS Maps since 21.x</td>
<td></td>
</tr>
<tr>
<td>Date</td>
<td>Title</td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>21 Feb 20</td>
<td><strong>Trackers:</strong> Attachment field type does not work</td>
<td></td>
</tr>
<tr>
<td>20 Feb 20</td>
<td><strong>Viewing user info</strong></td>
<td></td>
</tr>
<tr>
<td>21 Feb 20</td>
<td><strong>Cleaning and improving console.php batch:upload command feedback</strong></td>
<td></td>
</tr>
<tr>
<td>21 Feb 20</td>
<td><strong>Add --auto-fix option to the doc/devtools/check_translation_standards.php script</strong></td>
<td></td>
</tr>
<tr>
<td>21 Feb 20</td>
<td><strong>Undefined variable: useCache when using console.php batch upload command</strong></td>
<td></td>
</tr>
<tr>
<td>20 Feb 20</td>
<td><strong>Installer encoding issue</strong></td>
<td></td>
</tr>
<tr>
<td>20 Feb 20</td>
<td><strong>It is not possible to select a gallery when uploading an image using the toolbar (tested dev.tiki.org)</strong></td>
<td></td>
</tr>
<tr>
<td>20 Feb 20</td>
<td><strong>File Gallery: fatal error when trying</strong></td>
<td></td>
</tr>
</tbody>
</table>
to choose from uploaded images using the browse option

20.x
20.x Regression

20 Feb 20
Tiki version on the control panel, General preferences is wrong (no git)

20.x
21.x

19 Feb 20
Two-factor Authentication (2FA) enhancements

21.x

17 Feb 20
Mass replace in wiki pages fails

21.x

17 Feb 20
'jQuery-UI Chosen Select Boxes' not rendering correctly

20.x

(For technical details, see the source of Horizontal timeLine using plugin List demo and timeline_list_inner_tpl.)

Vertical Timelines

New: Simple vertical timeline

A demo of and documentation for a https://doc.tiki.org/Simple-vertical-timeline was added that uses some new CSS and a tracker along with default Bootstrap and Tiki CSS, etc. No JavaScript is used for this simple timeline (so no eye candy such as animations).

(This information was formerly at Vertical Timelines but is now consolidated here because of similar content.)

Ideal case

- Minimal CSS (function only, no styling)
  It's best if it isn't necessary to override a library's CSS, to reinstate a theme's styling.
- Can be both vertical and horizontal
  This is probably too much to hope for, but it'd be cool if the same code could be used for horizontal and vertical timelines, maybe with just a switch or class difference.
- Amenable to use with tracker wiki templates and list templates
  Of course the timeline needs to be able to display data from trackers via the list plugin or pretty tracker type of method, as well as with "static" wiki syntax if desired.
- Time-period headings inserted automatically
  I think what makes something a timeline and not just a list of paragraphs or panels containing info is prominent time information. This might be year headings, or months or whatever is appropriate. A smart script would be able to check the creation time of the information and add appropriate time-period headings. I'm not sure if this exists or not. If not, then a way to have headings is provided via the plugin or docs. (Maybe use the plugin once per time period, following a heading.)
- Responsive, etc.
- Compatible license of course

Types

- "Bootstrap" timelines (no additional libs needed)
  - [https://bootsnipp.com/snippets/xGGpM](https://bootsnipp.com/snippets/xGGpM)
  - [https://codepen.io/bsngr/pen/Ifvbi/](https://codepen.io/bsngr/pen/Ifvbi/)
- CSS only
- CSS and JavaScript
  - [http://www.jqueryscript.net/other/Responsive-Timeline-Plugin-With-jQuery-Bootstrap-eyellow-Timeline.html](http://www.jqueryscript.net/other/Responsive-Timeline-Plugin-With-jQuery-Bootstrap-eyellow-Timeline.html) (This one is a good prospect.)
  - [http://ryanfitzgerald.github.io/vertical-timeline/index.html](http://ryanfitzgerald.github.io/vertical-timeline/index.html) (Basic; time info in entries but not as headings.)

Other details

Some timelines use alternating classes on panels that display to the left and right of the timeline axis. To work (easily) with dynamic data, we'd need to use an n+1 pseudo element to apply the alternating properties, or some such arrangement.

One example

"Tik Tok is a simple, mobile-friendly, vertical timeline tool. With just a few lines of JavaScript and some interesting, timely data, Tik Tok creates simple, elegant timelines that can pull data from various spreadsheets and data sources, can include embedded media from sources like YouTube and SoundCloud, and can change styles to fit your design needs. Tik Tok is perfect if you have small, chronological narrative
pieces and are working with a design that lends itself to vertical content, which is often the case for existing news sites."

From https://source.opennews.org/articles/beautiful-timelines-easy-way-tik-tok
http://datanews.github.io/tik-tok/examples/example-csv.html

**Vertical timeline demo using List plugin and no additional JavaScript**

*Work under way*

**Related links**

- https://www.egloo.ca/products/netify/roadmap
- https://codyhouse.co/demo/vertical-timeline/index.html
- https://h5p.org/timeline (Recently added to Tiki 17 - is there a vertical possibility?)
- http://wiki.misgav.org.il/tiki-index.php (horizontal timeline - can it be adapted to vertical?)
- http://freefrontend.com/css-timelines/
- http://okfnlabs.org/blog/2012/12/04/javascript-timeline-libraries-a-review.html
  - https://github.com/okfn/timeliner
- http://www.simile-widgets.org/ which has other goodies
- http://drupal.org/project/timeline
- **Timeline viewer** entry on wishlist
- **Project Management**
- http://doc.tiki.org/PluginTrackerTimeline
- http://timeline.verite.co/
- **TimelineJS**