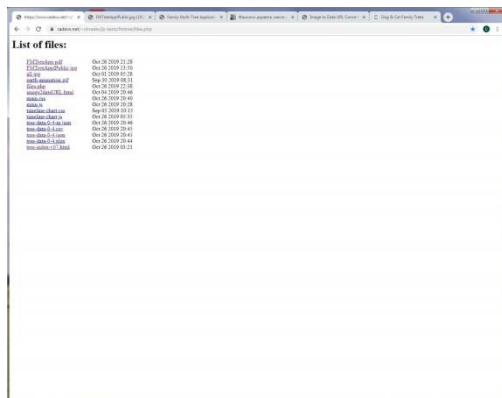


Snapshots of Family Multi-Tree (FM Tree) and Image to Data URL Convertor web applications



FM Tree application and data files on radevs.net
<https://www.radevs.net/~chradev/js-tests/fmtree/files.php>

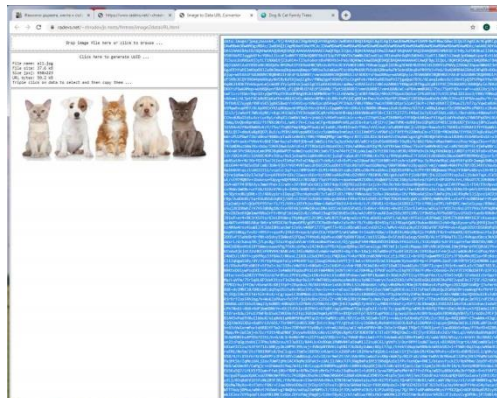
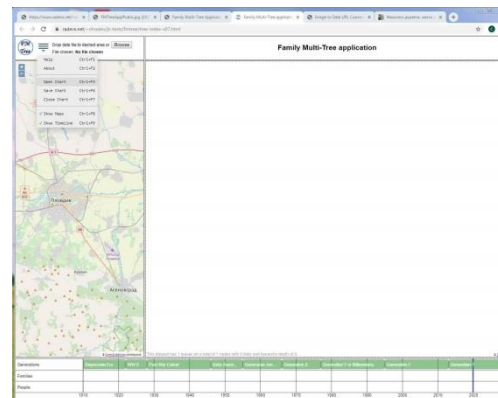
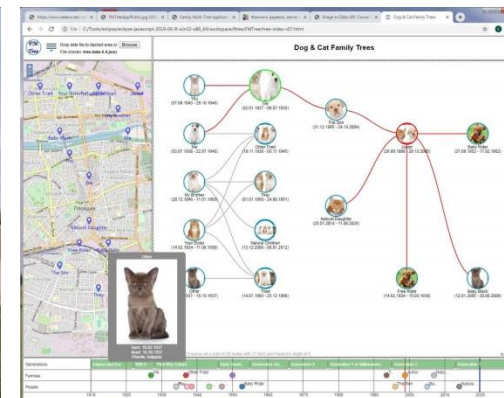


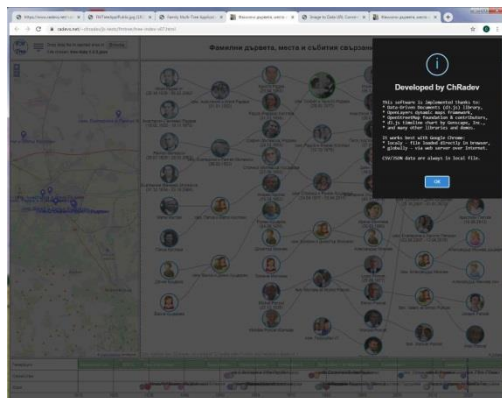
Image to Data URL Convertor in action
<https://www.radevs.net/~chradev/js-tests/fmtree/image2dataURL.html>



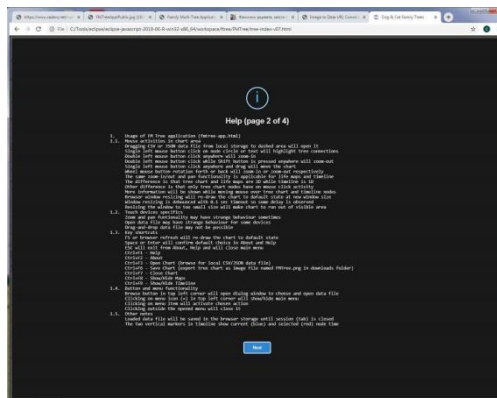
FM Tree application (no data) main menu
<https://www.radevs.net/~chradev/js-tests/fmtree/tree-index-v07.html>



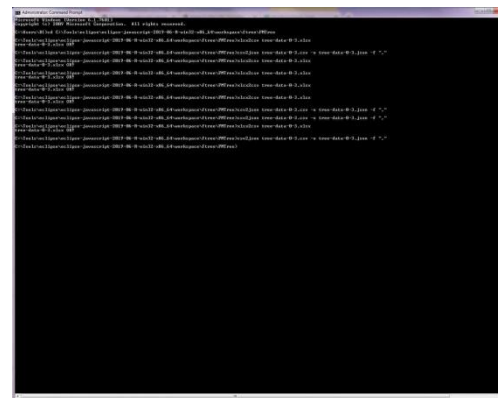
FM Tree application running with public data both loaded from local files, tooltip, selected tree, group nodes with multiple (2 and 3) members



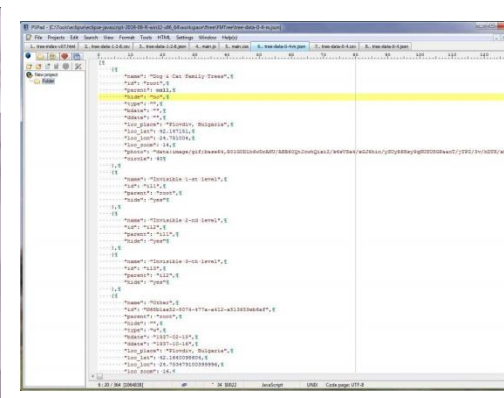
FM Tree application About view and private data loaded in background



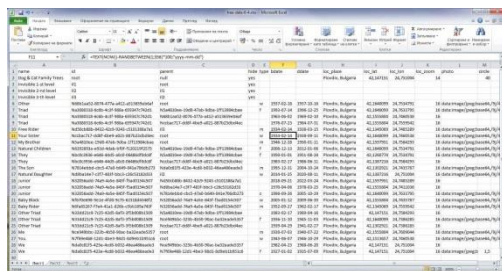
FM Tree application Help view (page 2 of 4)



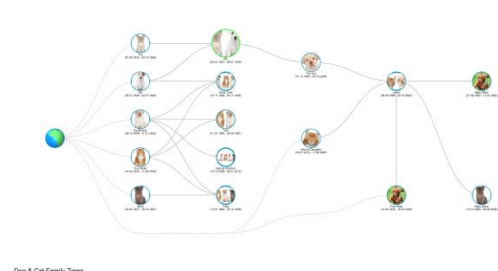
FM Tree data conversion commands
 XLSX to CSV: `xlsx2csv tree-data...`
 CSV to JSON: `csv2json tree-data...`



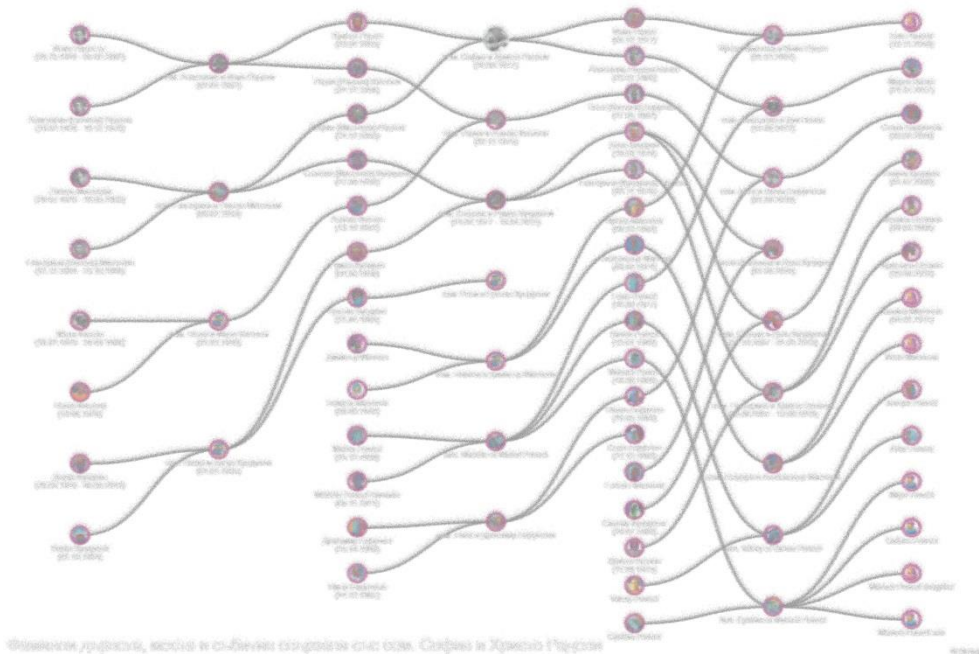
FM Tree JSON data file edited in PSPad with modified root.hide: "no" and root.photo: "animated GIF big file"



FM Tree data file edited in MS Excel 2010
 IDs generated from image2dataURL application
 Dates generated randomly with Excel formula
 Root and set of 3 invisible nodes with hide: 'yes'
 Group nodes with multiple (2 and 3) members
 One node in group containing full set of data
 "We" node highlighting with circle: 1.5



FM Tree chart from modified JSON public data exported to image file
 Zoomed to see all nodes and links
 Resolution 7640x4068 px (31.08 Mpx)
 in PNG format (file size 2.82 MB)



Dataset with 35 leaves on a total of 95 nodes with 94 links and hierarchy depth of 7
Images are 24 pixels in diameter to fit whole chart in 1920x1200 screen resolution

Note: Above images are manipulated to hide private information.

New features in FMTree ver. 2.4 (6.6.2020):

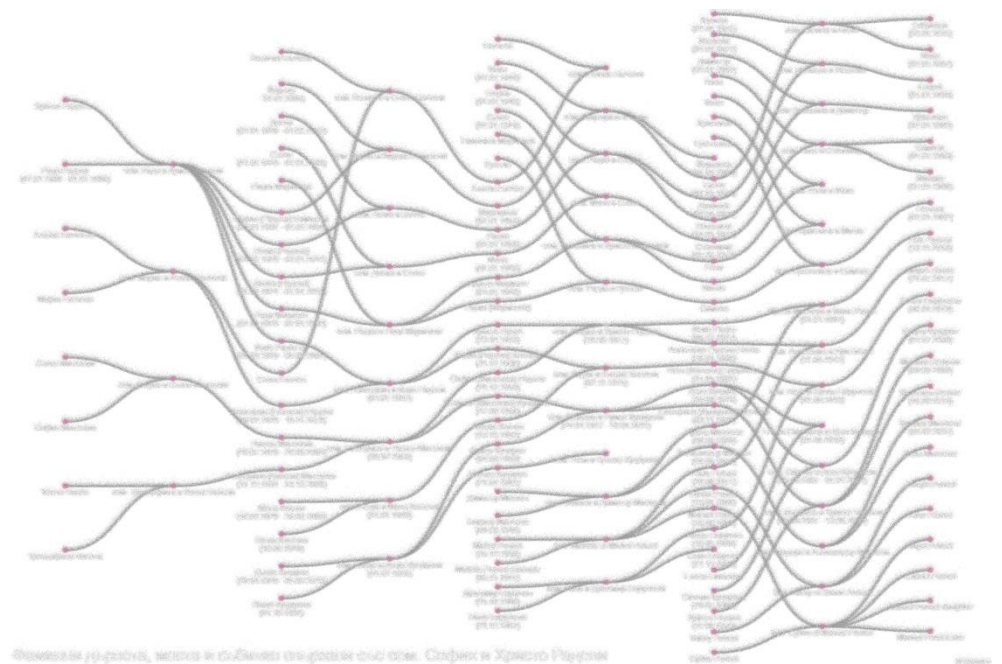
parent field is renamed to parents
multiparent nodes are described with comma separated list of parent IDs in parents field
loc_xxx fields are moved to place and location fields
place field is the same as loc_place
location field consists of 3 comma separated numbers: latitude, longitude and zoom factor
description field is used to enter the text shown in node tooltip for the chart
font field is added to control the font used for the chart texts
root only circle field is modified as comma separated numbers:
circle radius (for all circles), horizontal and vertical inter text space
for highlighted node circle field is a single scale value

Two sets of invisible nodes are required to align floating nodes to appropriate level
The deepest level of the invisible nodes chains are used to avoid linked to root visible nodes

Added feature to use data file in URL (FMTree/index.html?data=path-data-file.extension)
Both CSV and JSON file types are allowed but should be on the same server where FMTree is

New features planed in FMTree next versions:

- Multilanguage support for the help.



Dataset with 68 leaves on a total of 199 nodes with 198 links and hierarchy depth of 9
Images are not visible to fit whole chart in 1920x1200 screen resolution

d3.hierarchy is used to calculate hierarchy depth only

Nodes by type and total number of nodes are calculated from real data

Short date format (like "yyyy-mm-" and "yyyy-") support is added

The circles for nodes without images are decreased to half of the other nodes once

Vertically all levels of the chart are aligned to fit size of the level with maximal number of nodes

Horizontally the inter-level space is calculated to fit the longest texts

Added menu item to fit chart fully in viewing (dashed) area, while refresh will scale chart to 100%

Export to SVG file is added to avoid 16k pixels limitation for raster graphics export and usage

Magnification when chart is exported to PNG is calculated to fit 16k pixels size

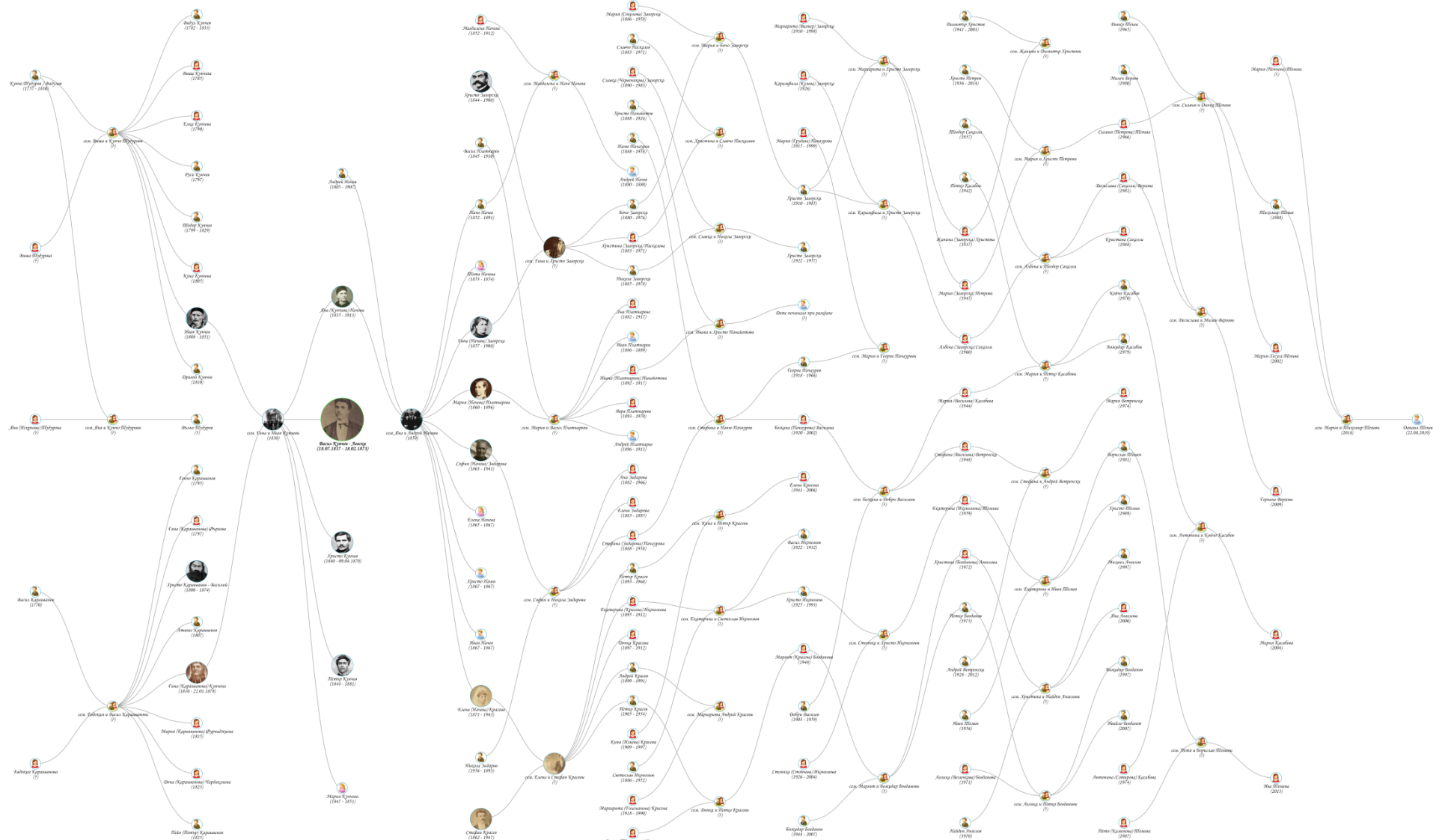
Export file name is changed to Data-File-Name-Extension.PNG or SVG

New public data file is created with family tree of Bulgarian hero Vasil Levski

The new public data file (Test-data-pub) has 202 visible nodes and 19 levels of hierarchy

Some bug fixes were done as well

New real data set for family trees of Bulgarian hero Vasil Levski was created.

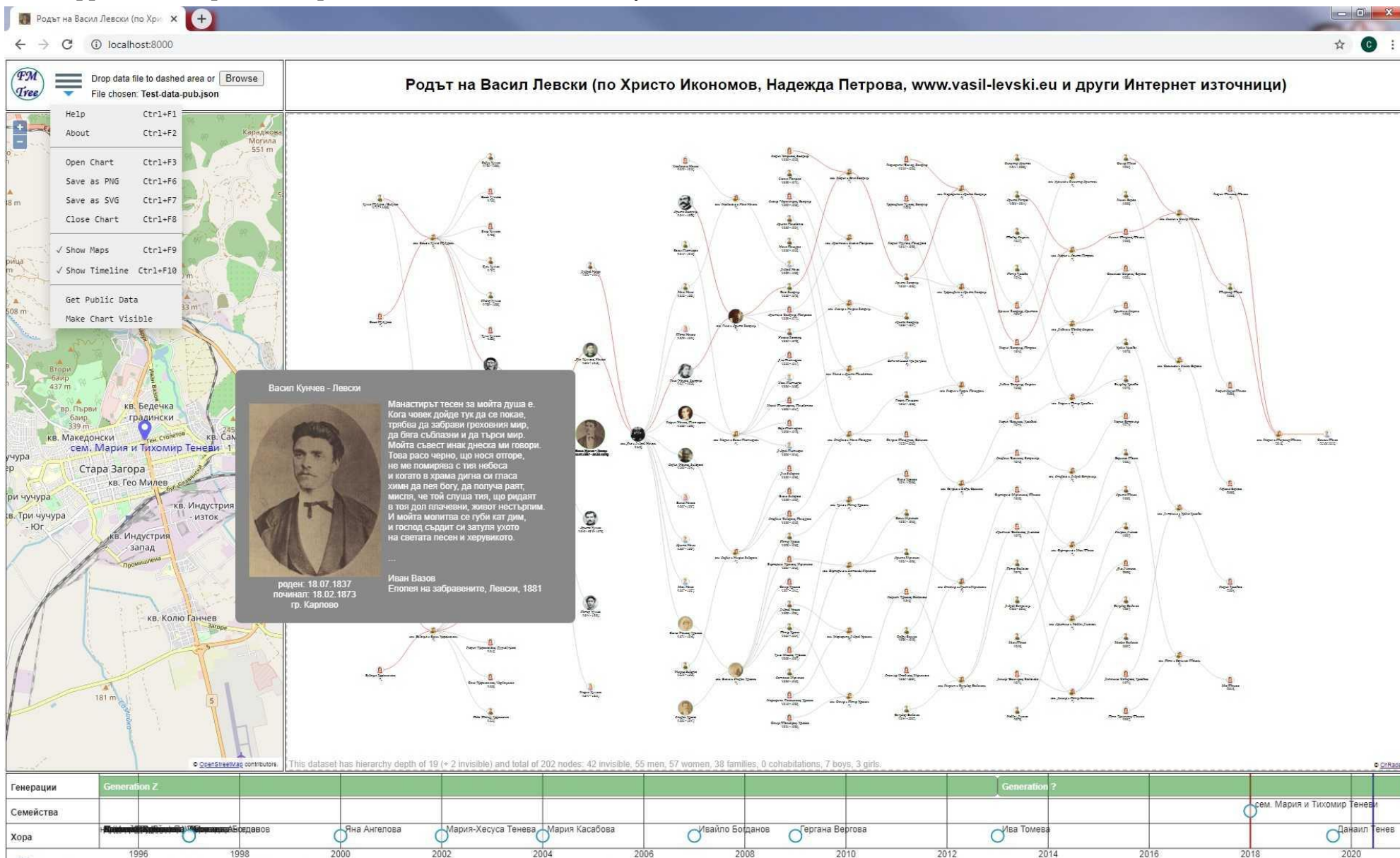


Родът на Васил Левски (по Христо Николов, Надежда Петрова, www.vasil-levski.eu и други Интернет източници)

This dataset has hierarchy depth of 19 (+ 2 invisible) and total of 202 nodes: 42 invisible, 55 men, 57 women, 38 families, 0 cohabitations, 7 boys, 3 girls.

Above picture is taken as PNG export of the chart and has 16384x9711x24bpp resolution, file size of 15.6MB and it takes 455.2MB in memory. It is appropriate to be printed on 694x411 mm (A2 paper size is 592x420 mm) paper size at 600dpi or on 4x bigger paper (1388x822 mm – A0 paper size is 1188x840 mm) at 300dpi. In such a case normal node circles with photo (having 240px diameter) will be printed with 10.16 and 20.32 mm diameter respectively. Printing with roll printers is also possible on a paper with width up to 914 mm (36 in) even up to 1625 mm (64 in). Better quality can be achieved by printing from SVG exported file.

FMTree application snapshot with public data for Vasil Levski family trees loaded:



Additionally following actions are performed: the chart is zoomed to fit; a node is selected to show forth and back genealogy links, position on map and timeline; the timeline is zoomed to show selected node; the menu is opened and the mouse is positioned to the highlighted node to bring a tooltip.

FMTree application is also tested with following private data sets:

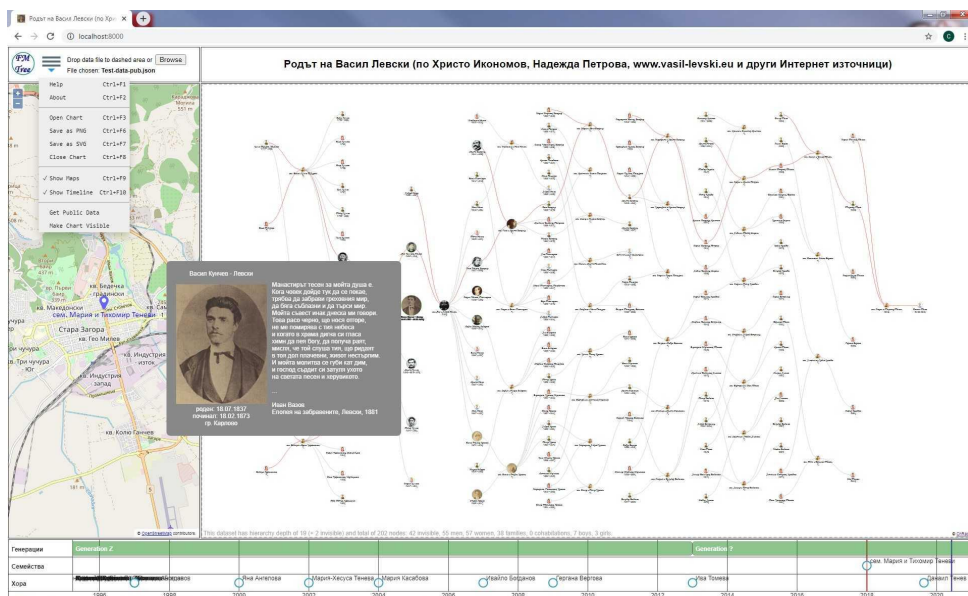
hierarchy depth of 9 (+ 2 invisible) and total of 83 nodes: 21 invisible, 18 men, 19 women, 18 families, 1 cohabitations, 2 boys, 4 girls;

hierarchy depth of 11 (+ 2 invisible) and total of 282 nodes: 25 invisible, 78 men, 80 women, 67 families, 3 cohabitations, 12 boys, 17 girls.

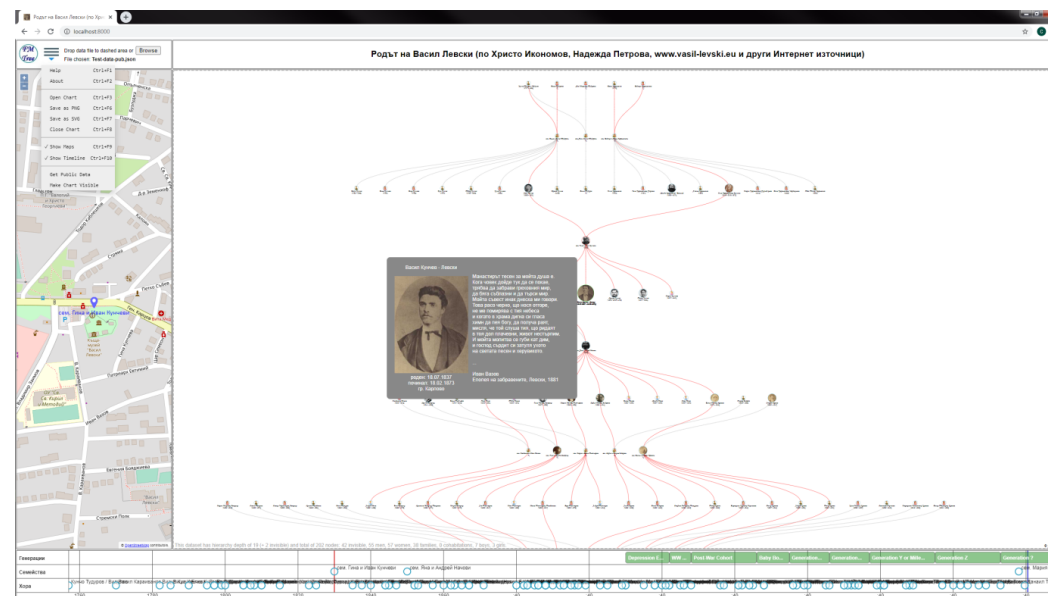
New features in FMTree ver. 2.5 (1.7.2020):

- Improved date support, added short format "-mm-dd"
- Added extended data privacy support in Excel file
- Added multi-tree view control like:
 - horizontal/vertical multi-tree views,
 - justified/stacked the same level nodes,
 - improved node layout positioning.

Improvements in application



Horizontal multi-tree view with justified the same level nodes



Vertical multi-tree view with stacked the same level nodes

Improvements in Excel file

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	name	id	parents	hide	type	bdate	ddate	place	location	photo	description	font	circle	privacy	bdDescr_m
2	Родът на Васил Левски (по Христо Икономов, Надежда Петрова, www.vasil-levski.eu и други Интернет източници)	root	null	yes	r			гр. Карлово	42.766260, 25.238575,6	data:image/jpeg;base64,/	Надежда Петрова –	20px Monotype Corsiva	40,10,16,0,0,1,0	0,0,0,0,0,0	роден

- circle: circle radius (for all circles), horizontal and vertical inter-text space in pixels,
enable vertical multi-tree view, enable stacked the same level nodes and vertical inter-node multiplier
- privacy: six comma separated 0/1 numbers for enable/disable private data publishing used in Excel file only
they are applied to bdate, ddate, place, location, photo and description fields respectively
for the bdate and ddate fields values are: 0 (yyyy-mm-dd), 1 (yyyy-), 2 (-mm-dd) and 3 (none)

Circle radius and text, node and multi-tree layout and positioning

Data privacy settings

Note: Description of new parameters can be found in FMTree application (Menu -> Help or Ctrl + F1).