

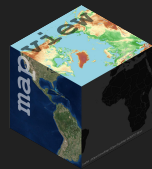
mapview



Tim Appelhans

Christoph Reudenbach & Florian Detsch

Who am I?



tim-salabim (r-spatial)



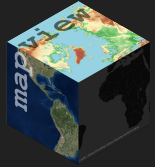
@TimSalabim3



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Who am I?



Since 2019: Director Data Science at METER Group <https://www.metergroup.com/>



2017 - 2019: Geodata Scientist at GfK



2010 - 2017: Lecturer at Environmental Informatics, University of Marburg



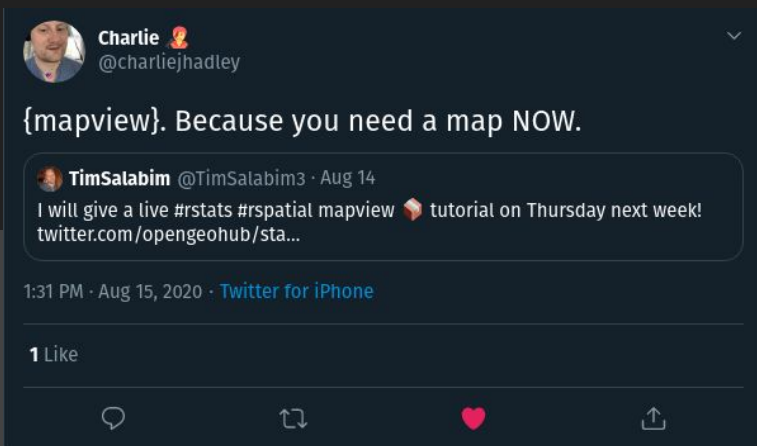
2005 - 2010: PhD Geography, University of Canterbury



1998 - 2005: Dipl. Geography, FAU University Erlangen-Nürnberg



Why mapview?



<https://twitter.com/charliejhadley/status/1294597569105068032>

- Because R has no built-in interactive plot functionality
- Because I was annoyed by having to switch between R & QGIS
- Because RStudio released {leaflet}
- Because {leaflet} is too verbose
- Because we need to be able to visualise things quickly and simply
- Because background maps can be a great visual aid
- Because creating plotting packages is fun!

Why mapview?

First commit of a mapview-esque function:

<https://github.com/environmentalinformatics-marburg/Rsenal/commit/58422a3a217cf0adaebe2c6634b0ecedf4e23a16#diff-7aa7de3809372fb3a13719a428a2c274>

[R-sig-Geo] mapView: basic interactive viewing of spatial data in R

Tim Appelhans tim.appelhans@gmail.com

Fri Jul 24 11:39:46 CEST 2015

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- Next message: [\[R-sig-Geo\] mapView: basic interactive viewing of spatial data in R](#)
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Dear list members,

I would like to draw your attention to a little 'project' I've been working on over the past few weeks.

Using leaflet for R, I have defined some methods for spatial data (e.g. Raster*, Spatial* objects) to quickly visualise them in either the RStudio Viewer pan or the default web browser. The function I created for this is called mapView().

Think of it as an interactive version of spplot()/plot() for spatial data (though less versatile). It enables zooming, panning and basic layer queries (i.e. printing of the attributes in the @data slot of Spatial* objects + the x/y location of the feature). For Raster* objects queries are currently not available as leaflet translates the data into RGB values for display. Furthermore, background maps can be defined and multiple different spatial object layers can be overlaid. At the moment mapView() lives in our Rsenal package on github (<https://github.com/environmentalinformatics-marburg/Rsenal>) but this is likely going to change at some point in the not too distant future. This also depends on whether there is active interest in developing this sort of thing further to provide more than the current admittedly rather limited functionality. This, however, would involve JavaScript coding which I do not have any experience with.

A quick (non-interactive) introduction can be found here:

<https://metvurst.wordpress.com/>

The full introductory article including interactive examples is published here:

http://environmentalinformatics-marburg.github.io/web-presentations/20150723_mapView.html

I hope this may prove useful for some of you.

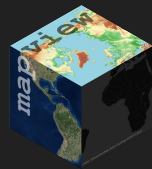
Also, if anyone is keen to get involved in taking this further, please let me know and we will see how to best proceed.

Best,
Tim

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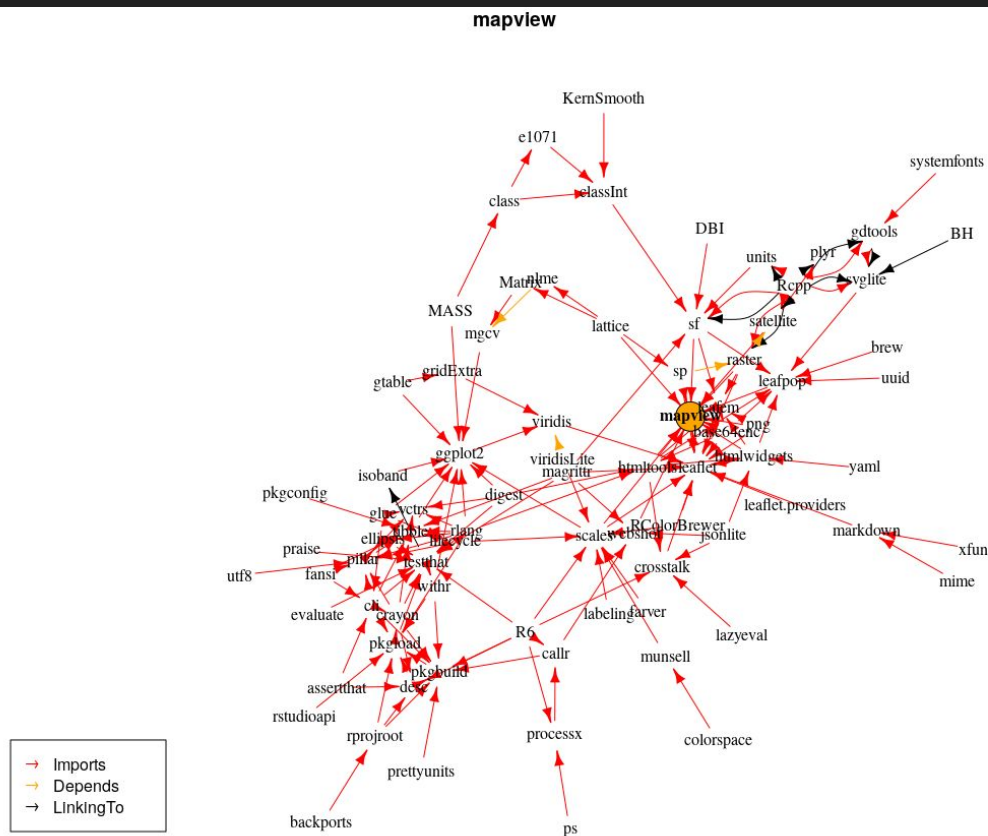


Why mapview?

In 2020 a full-blown package with lots of dependencies (probably too many).

Most important:

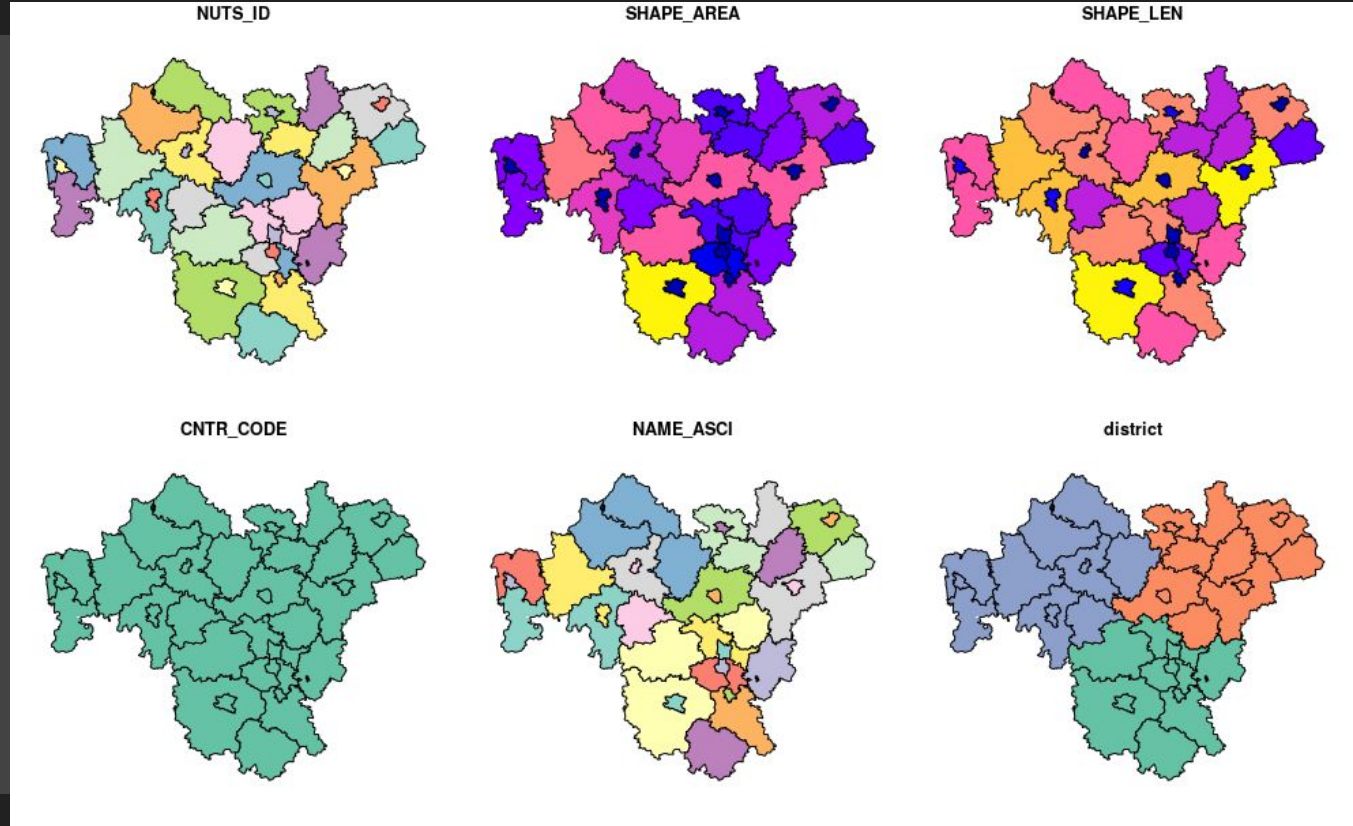
- * leafem
- * leafpop
- * (leaflet)



What's in the box?



```
plot(franconia)
```



What's in the box?



`mapview(franconia)`

Should be able to throw
pretty much anything at
mapview...

