

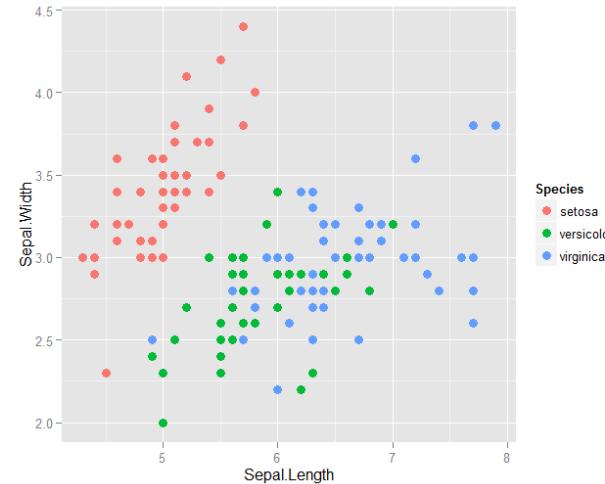
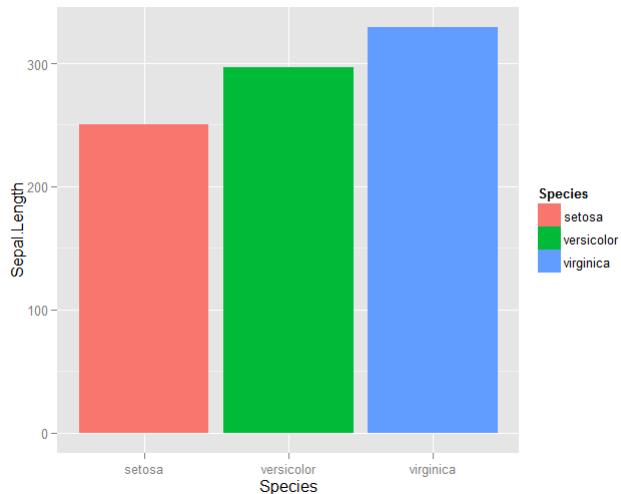
Using R for artistic purposes

Päivi Julin
Aureolis Oy



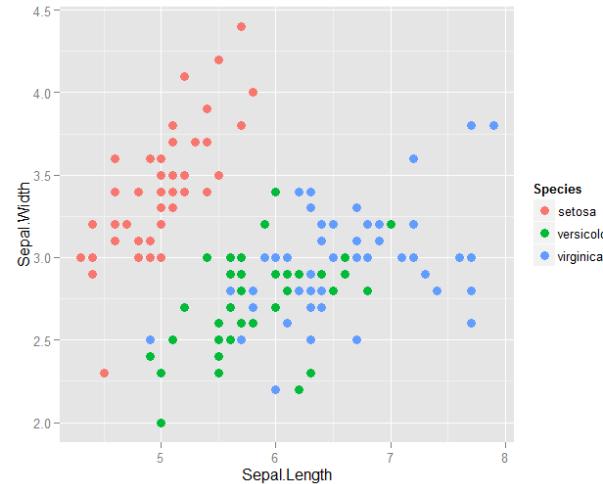
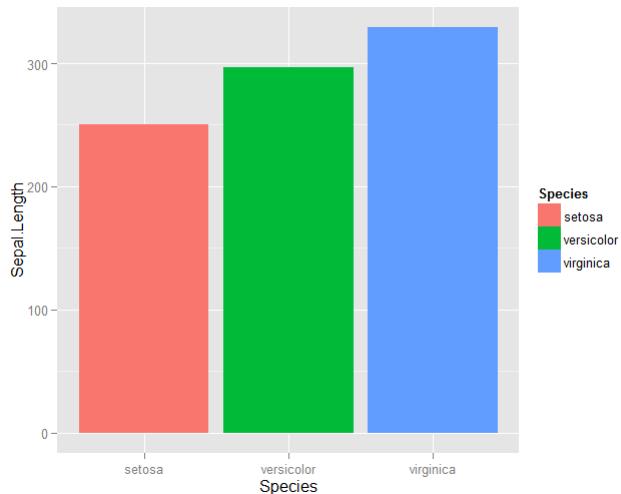
Message

- We use standard graphs for a reason



Message

- We use standard graphs for a reason



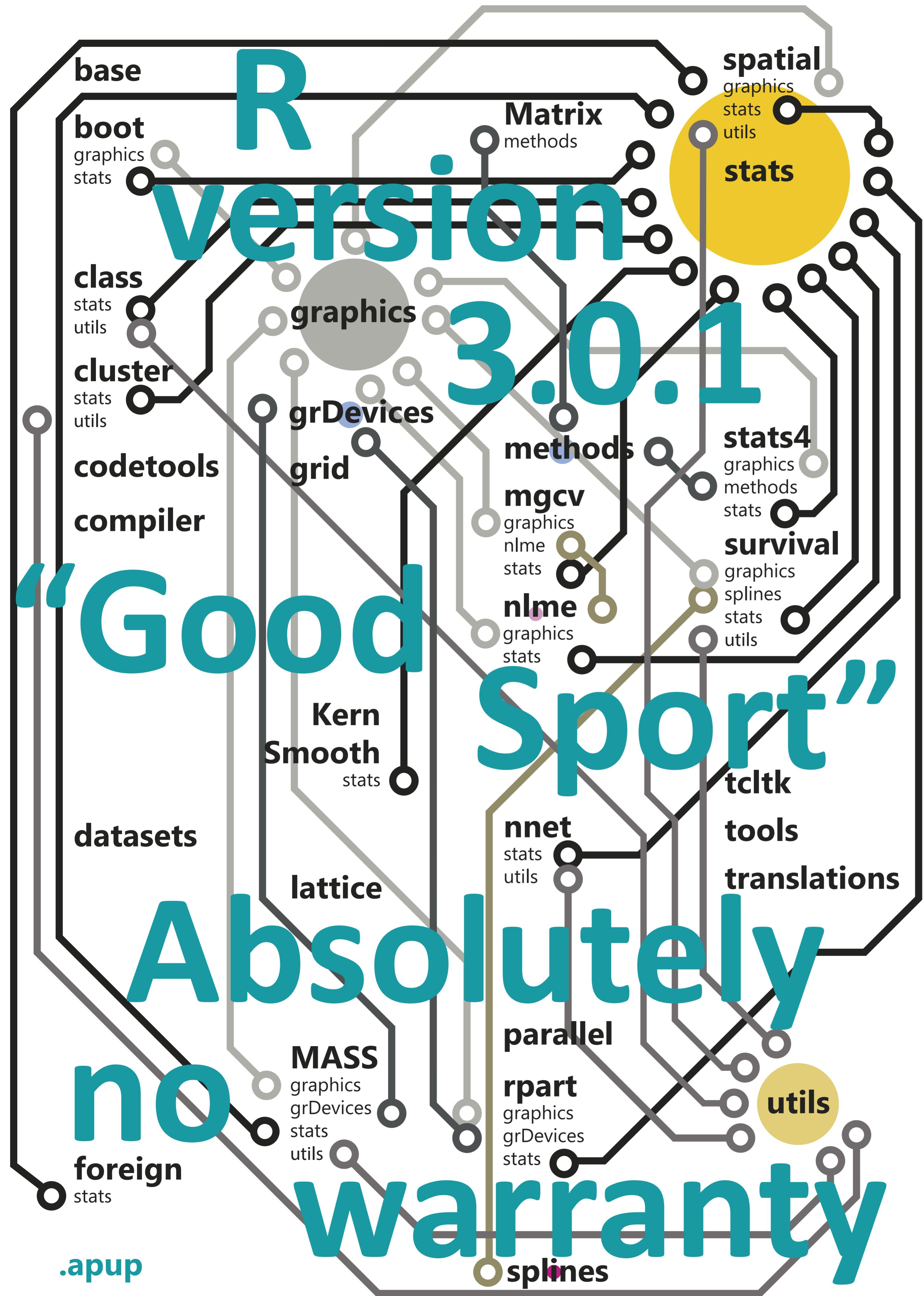
- ...but there is a lot more **potential** in R

Aureolis

Expert service organization providing
continuous **Business Intelligence** services.

Nearly 70 employees with a turnover of
6,4 M€ in 2015. Established in 2001,
privately owned.

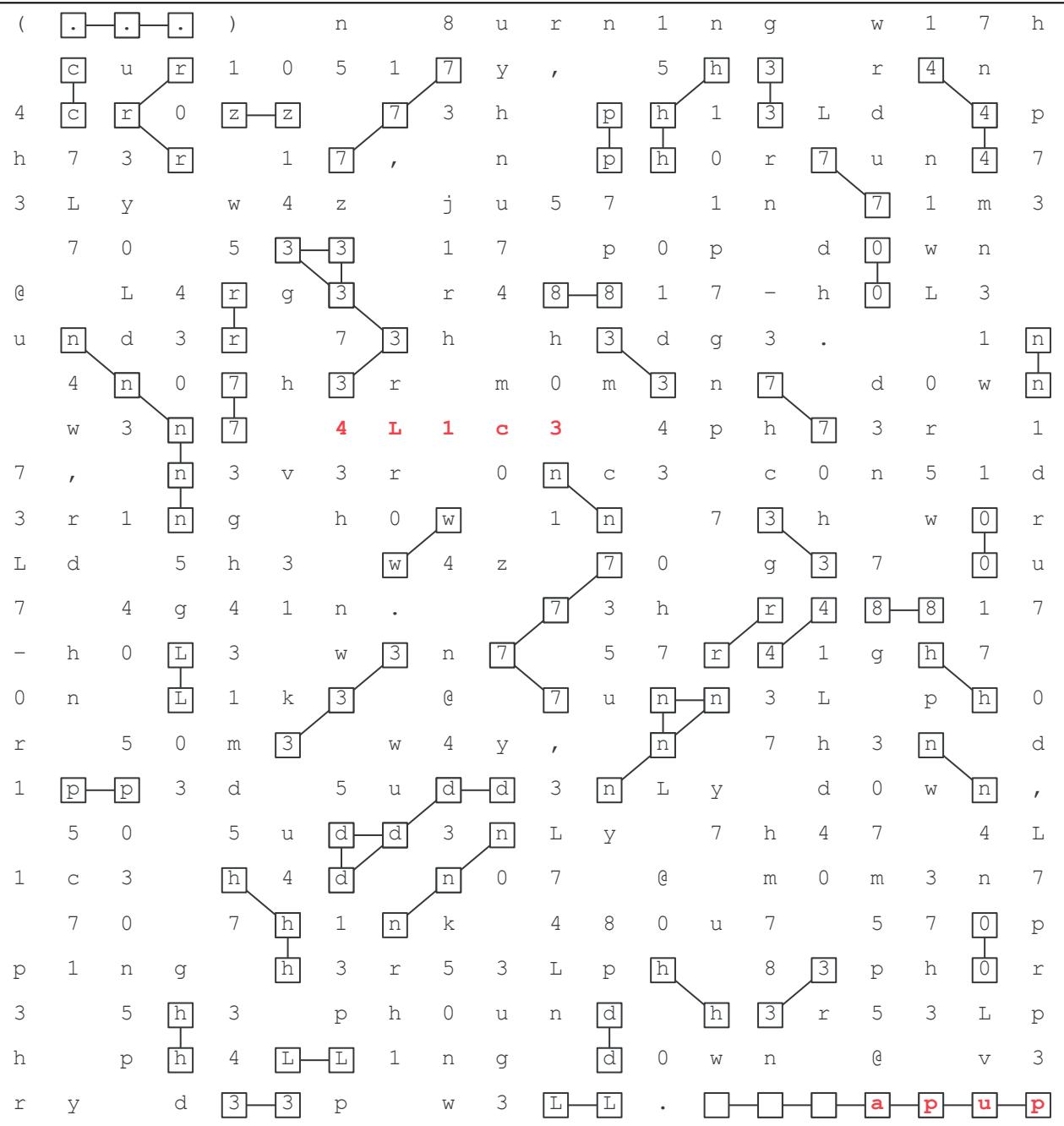
From **reporting** to **analytics**, and
data warehousing to **planning**.



Circuit board graph

Network of R default package dependencies

Text sample from
Alice in Wonderland
by Lewis Carroll



Alice was beginning to get very tired of sitting by her sister on the bank, and of having nothing to do: once or twice she had peeped into the book her sister was reading, but it had no pictures or conversations in it, 'and what is the use of a book,' thought Alice 'without pictures or conversation?'

So she was considering in her own mind (as well as she could, for the hot day made her feel very sleepy and stupid), whether the pleasure of making a daisy-chain would be worth the trouble of getting up and picking the daisies, when suddenly a White Rabbit with pink eyes ran close by her.

There was nothing so VERY remarkable in that; nor did Alice think it so VERY much out of the way to hear the Rabbit say to itself, 'Oh dear! Oh dear! I shall be late!' (when she thought it over afterwards, it occurred to her that she ought to have wondered at this, but at the time it all seemed quite natural); but when the Rabbit actually TOOK A WATCH OUT OF ITS WAISTCOAT-POCKET, and looked at it, and then hurried on, Alice started to her feet, for it flashed across her mind that she had never before seen a rabbit with either a waistcoat-pocket, or a watch to take out of it, and burning with curiosity, she ran across the field after it, and fortunately was just in time to see it pop down a large rabbit-hole under the hedge.

In another moment down went Alice after it, never once considering how in the world she was to get out again.

The rabbit-hole went straight on like a tunnel for some way, and then dipped suddenly down, so suddenly that Alice had not a moment to think about stopping herself before she found herself falling down a very deep well.

Text sample from
Alice in Wonderland
by Lewis Carroll

ALICE'S ADVENTURES
IN WONDERLAND

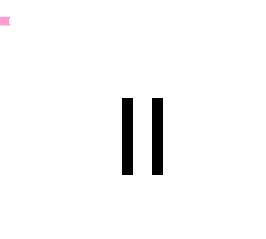
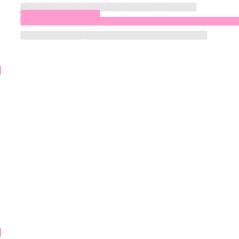
I



Linguistic poster

Chapters I-III
from Alice in
Wonderland
by Lewis Carroll

II



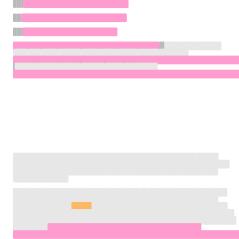
Chapters I-III

from Alice in

Wonderland

by Lewis Carroll

III



Chapters I-III

from Alice in

Wonderland

by Lewis Carroll

III

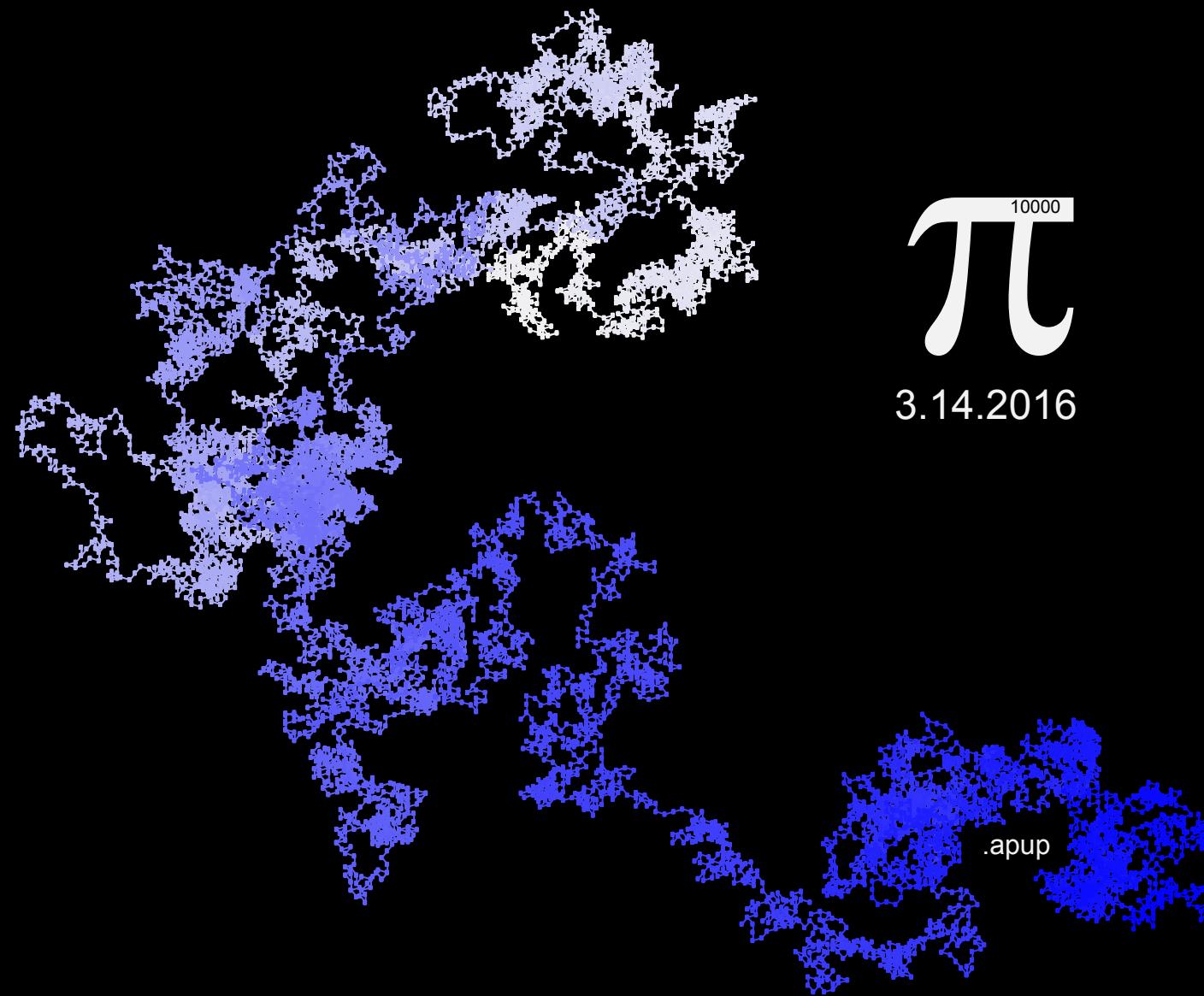


Chapters I-III

from Alice in

Wonderland

by Lewis Carroll



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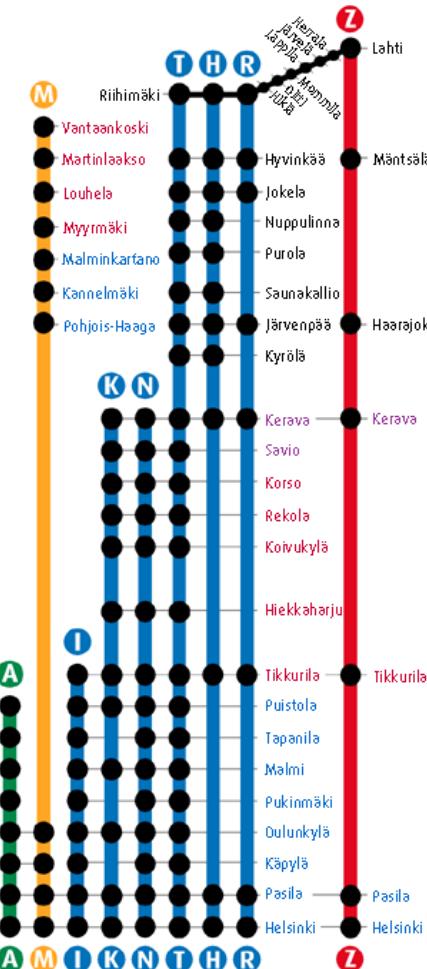
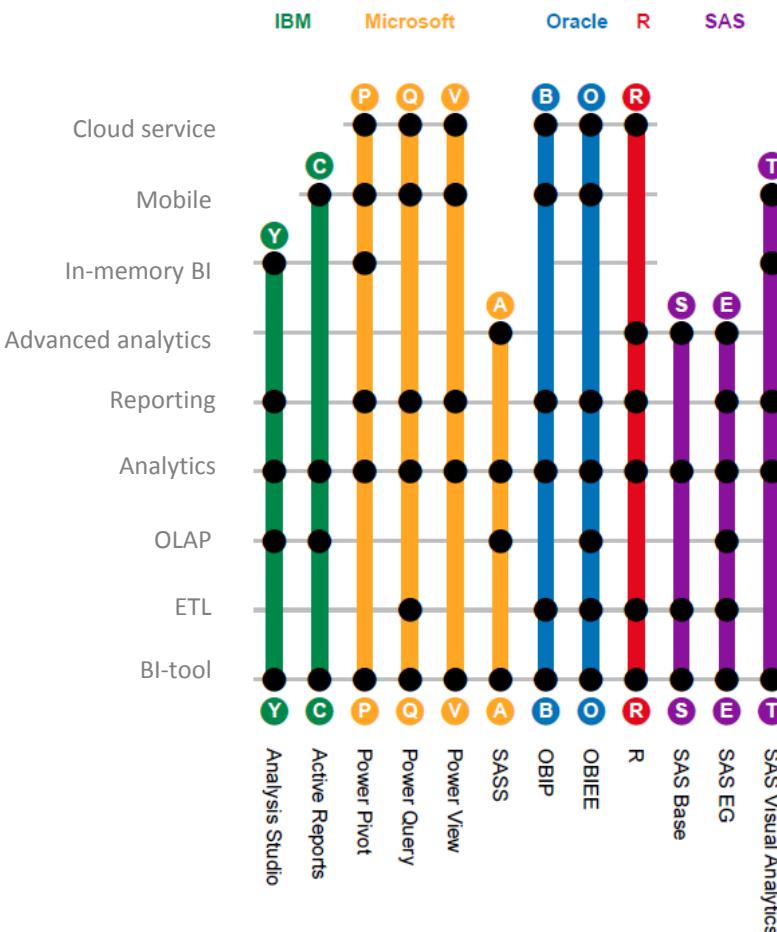
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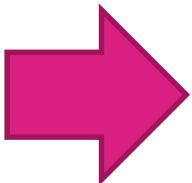
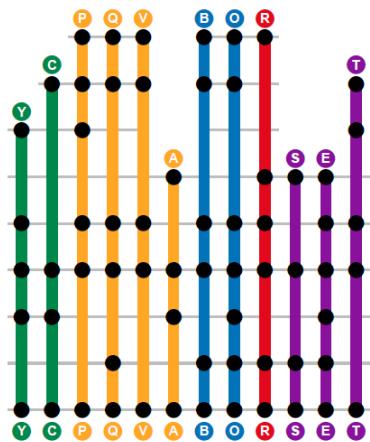
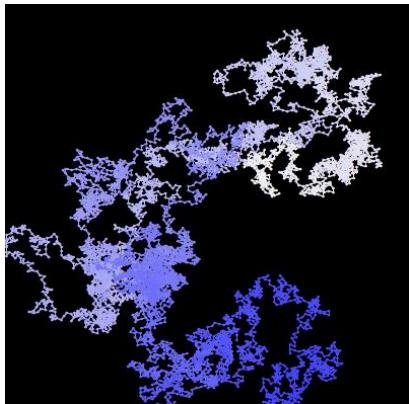
Day of Pi
Poster of 10'000 first decimals of Pi

R execution with dummy data

Train route map (source VR)

Technology





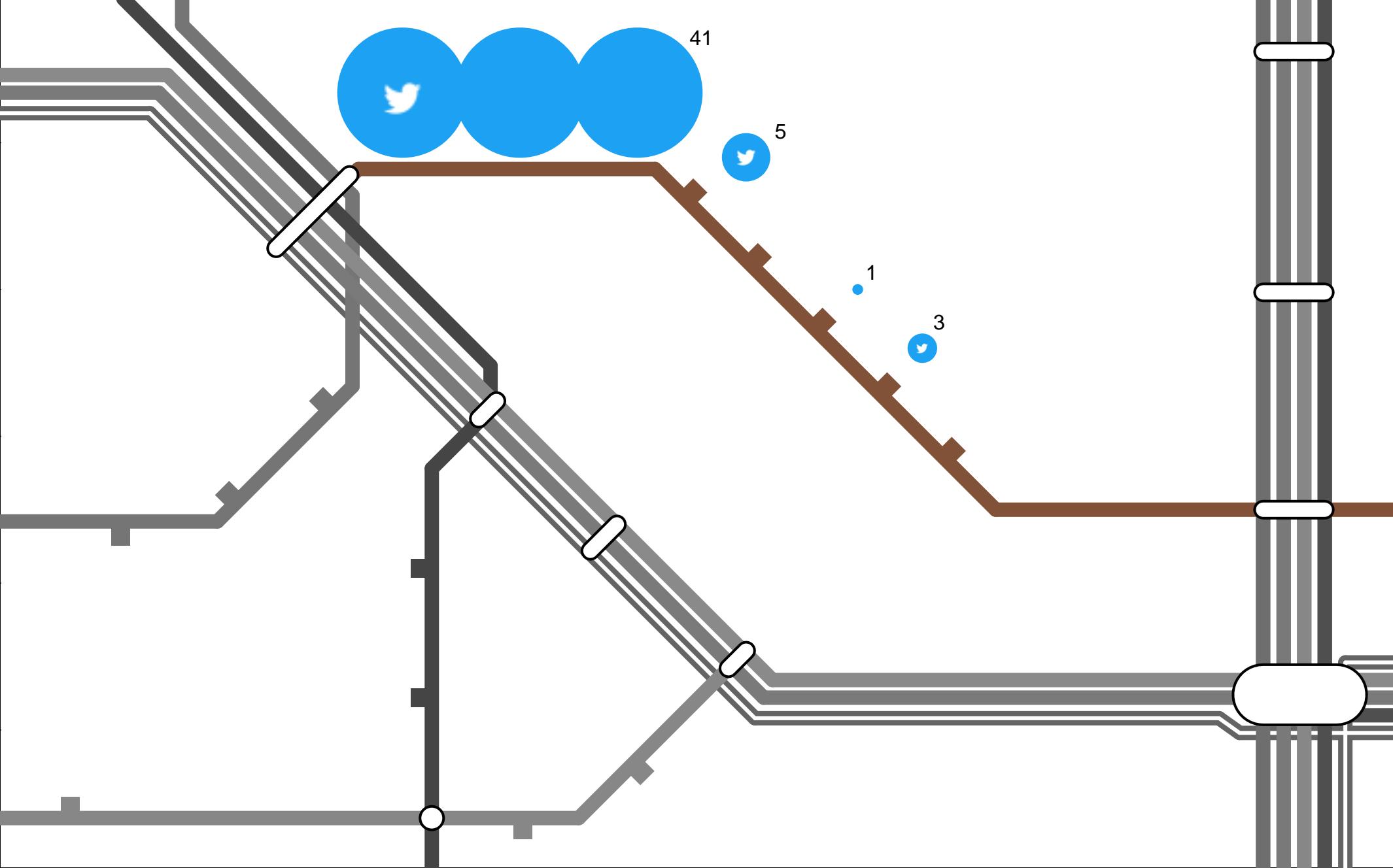
Using R for artistic purposes

1.10.2016



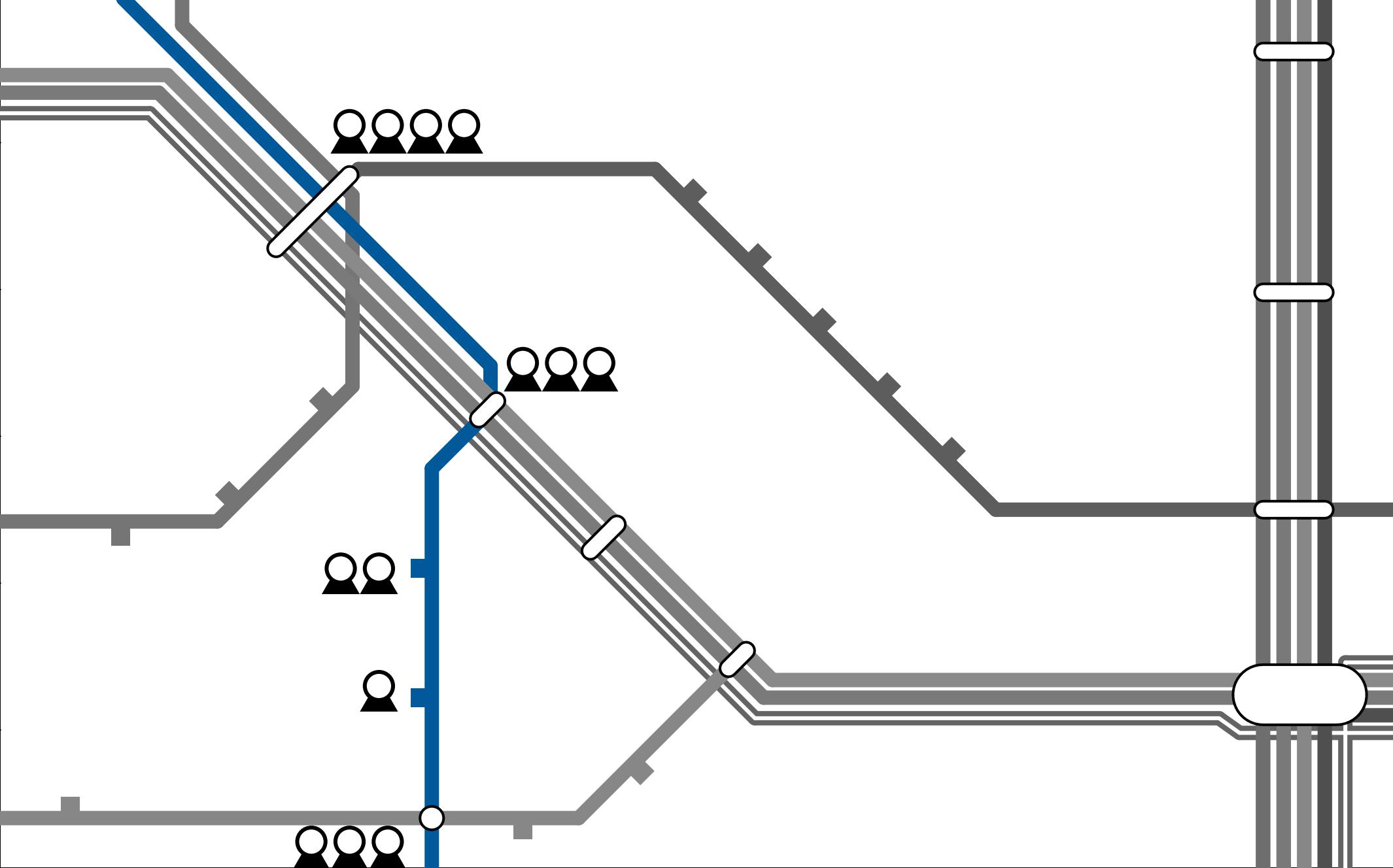
R execution for
Berlin transportation map

Tweets on U5 stations
#[station] #ubahn
(2016)



R execution for
Berlin transportation map

Imaginary U8
passenger amounts





Metro of Helsinki

23 min



Metro of Helsinki

Infographic poster

Comparison between R packages and a dictionary

Initials, 9150 R-packages

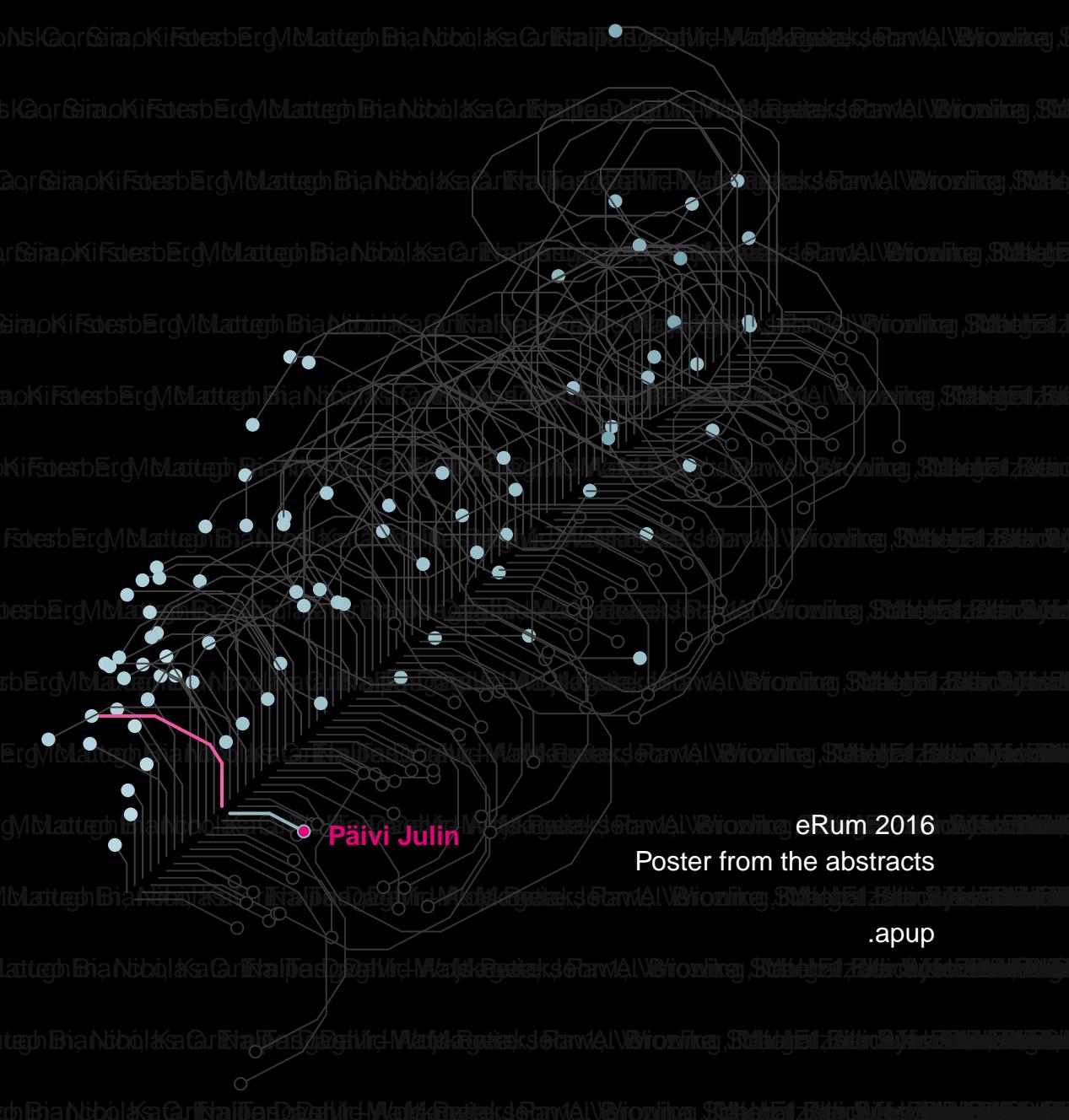


Initials, 354 939 dictionary words



Poster from the abstracts

.apup



Päivi Julin
Poster from the abstracts

.apup



Poster from the abstracts

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Sources

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- Berlin, public transportation route map
<http://www.s-bahn-berlin.de/pdf/VBB-Liniennetz.pdf>
- eRum, abstracts
<https://github.com/eRum2016/Book-of-abstracts/raw/master/output/boa.pdf>
- Ilmatieteenlaitos, open data weather API
<https://ilmatieteenlaitos.fi/avoin-data>
- HSL, Helsinki metro map
<https://www.hsl.fi/en/timetables-and-routes/routemaps>
- R-project, packages list
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- Twitter logo
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- VR, train route map of Helsinki metropolitan area
<https://www.vr.fi>

Summary

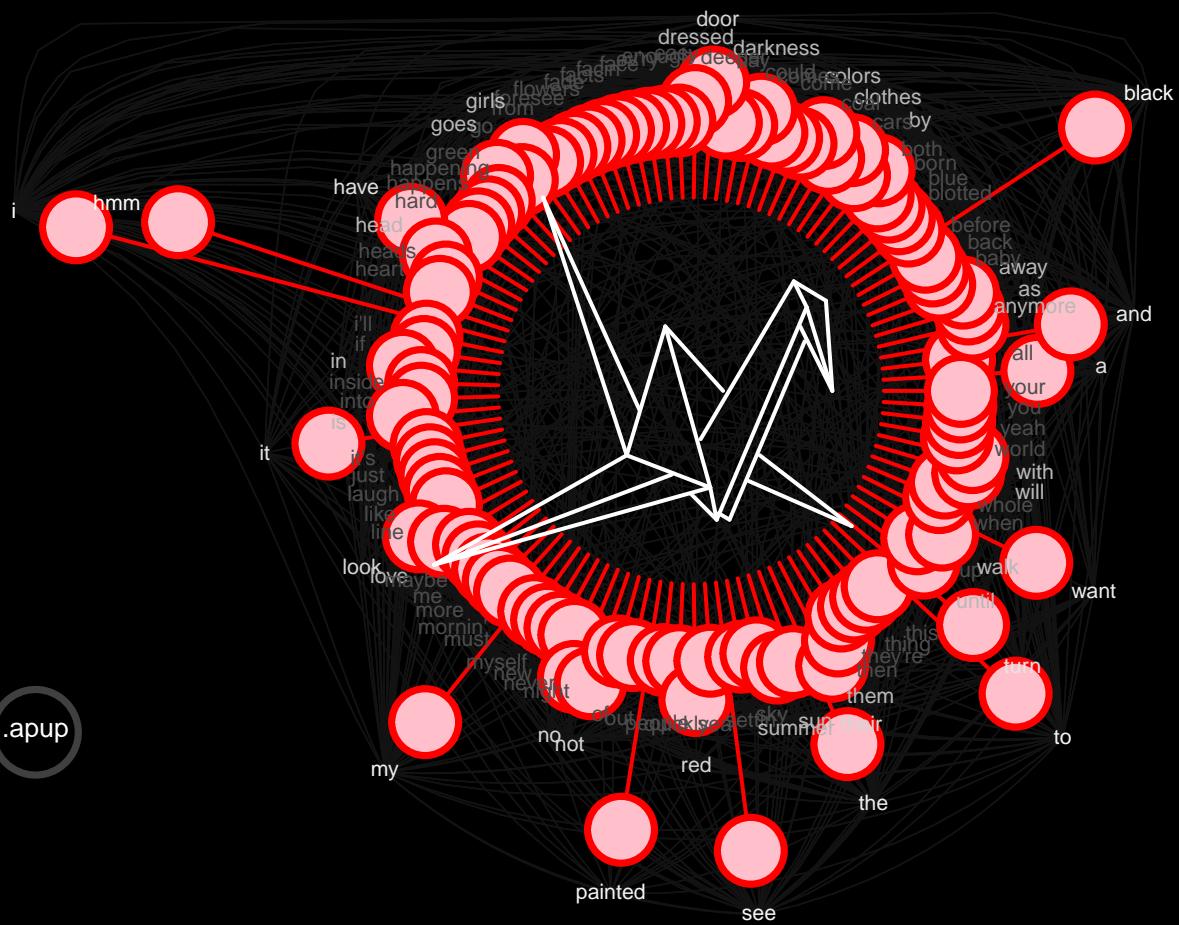
Please, use R in many creative ways...

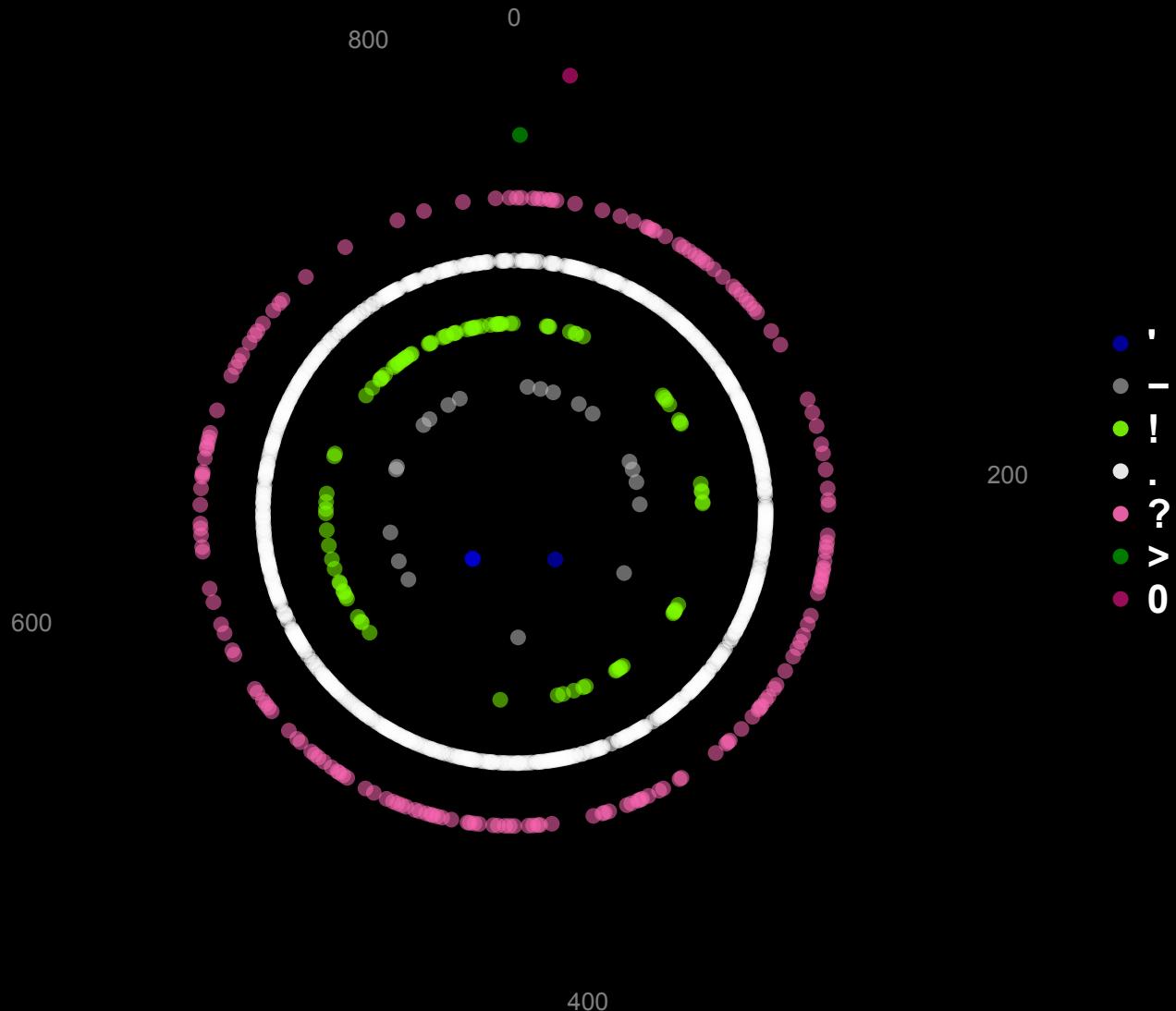
Summary

Please, use R in many creative ways...



...everything has not been invented yet





You have to focus. There is a phone. Well, I am and L

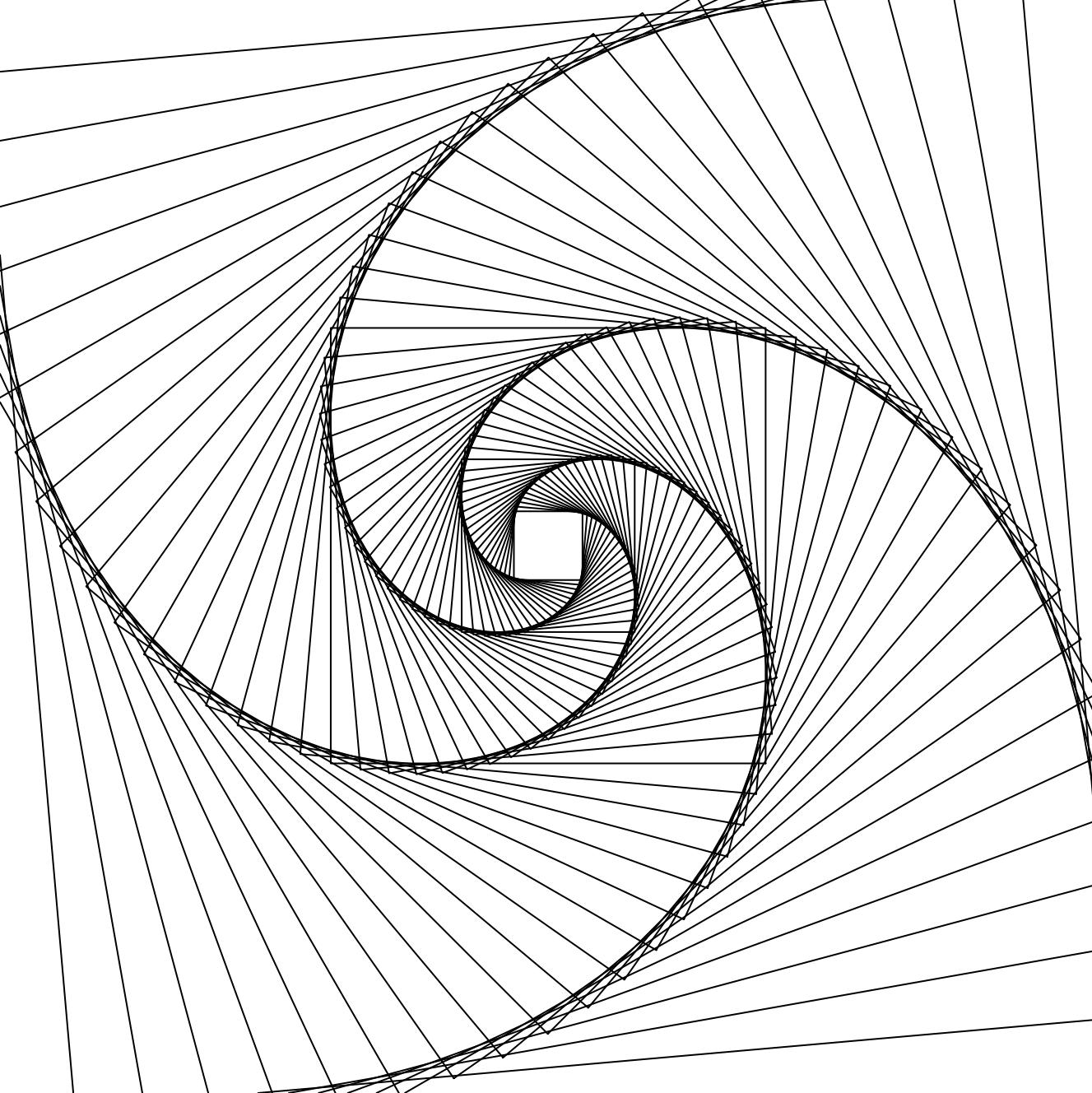
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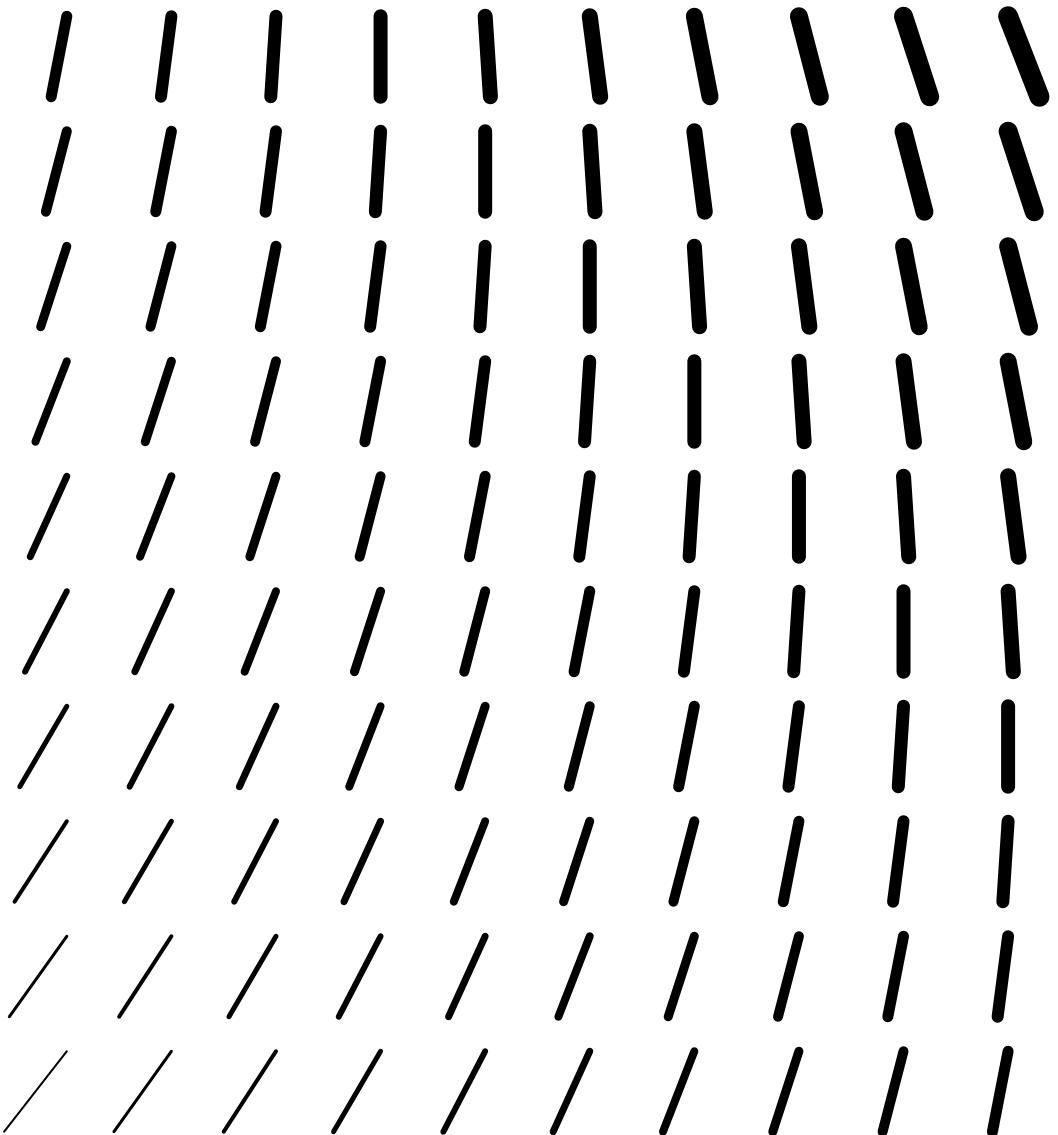
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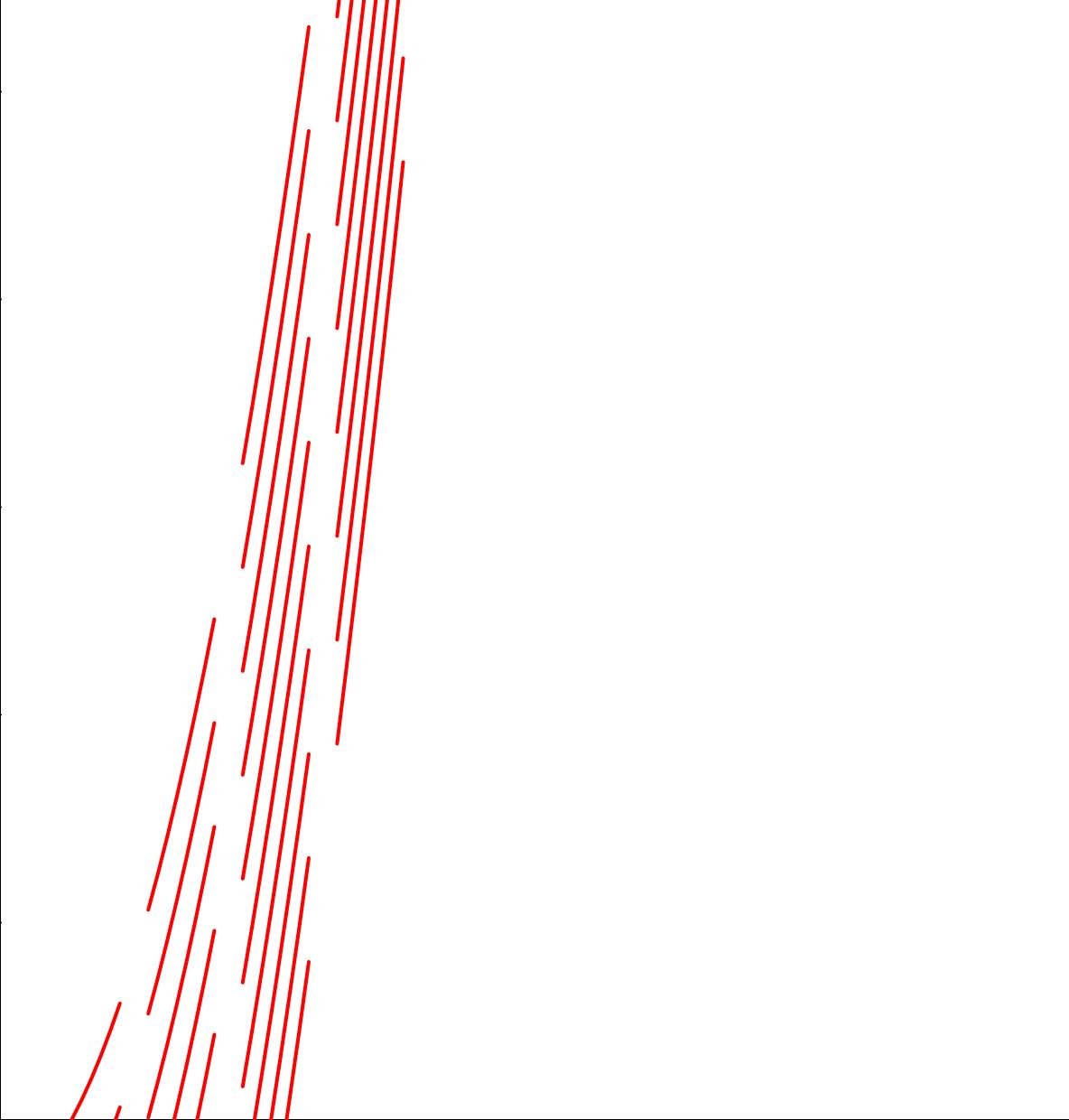
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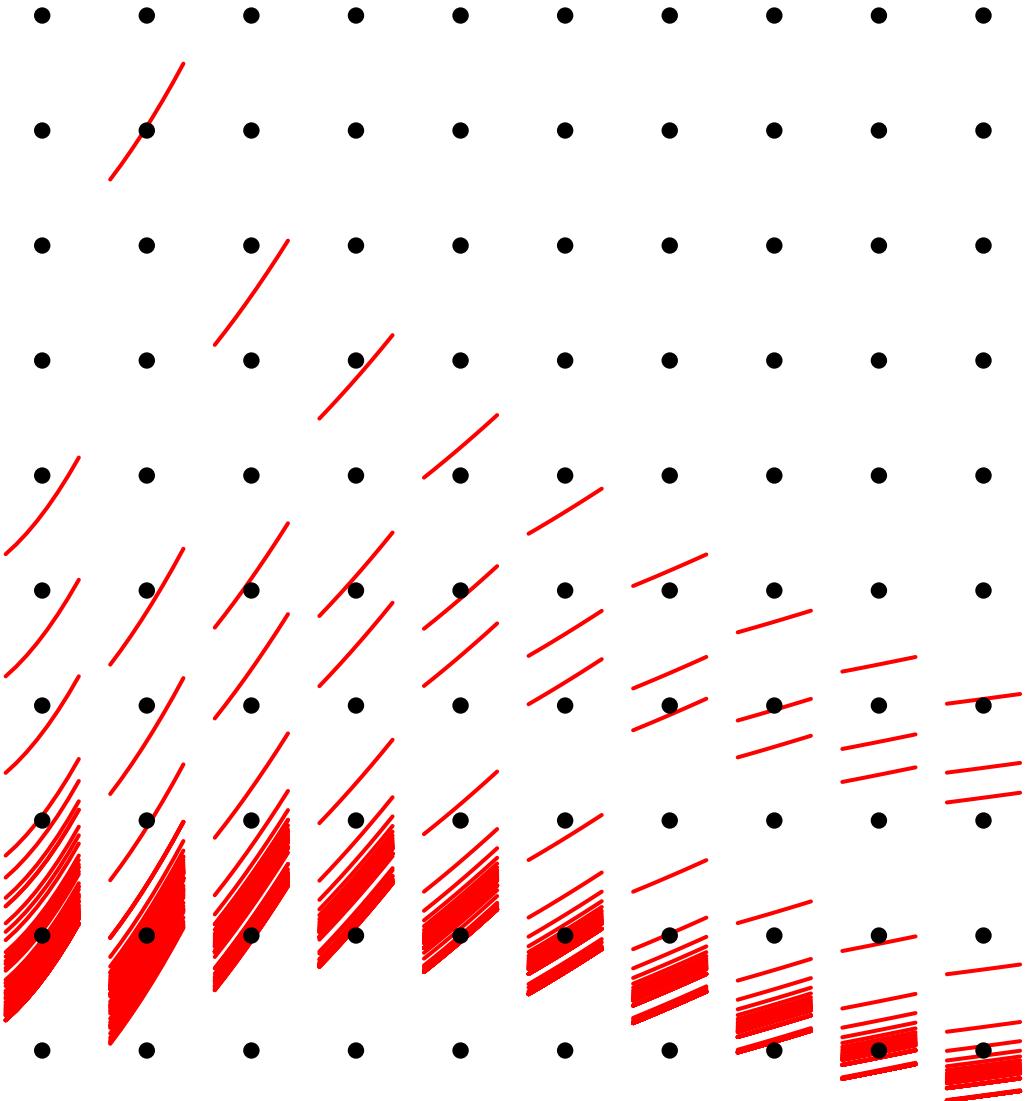
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Thank you!



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