

# Look ahead

Machine Learning with R

Basel R Bootcamp



October 2019

# Hello Machine Learning Experts!

In 2 days, 6 sessions, and 16 hours you have come a long way.

	Sat, 11 May	Sun, 12 May
0900	Welcome	Recap
0930	<b>What is ML</b>	Optimization +Practical
1045	<b>R for ML</b> +Interactive	
1200	<i>Lunch</i>	<i>Lunch</i>
1300	<b>Fitting</b> +Practical	<b>Features</b> +Practical
1500		
1530	<b>Prediction</b> +Practical	<b>Models</b> +Practical
1715		<b>Look ahead</b>
1800	Wrapup	<i>Apero</i>

# Welcome to the Data Revolution

*"Machine learning will be the engine of global growth."*

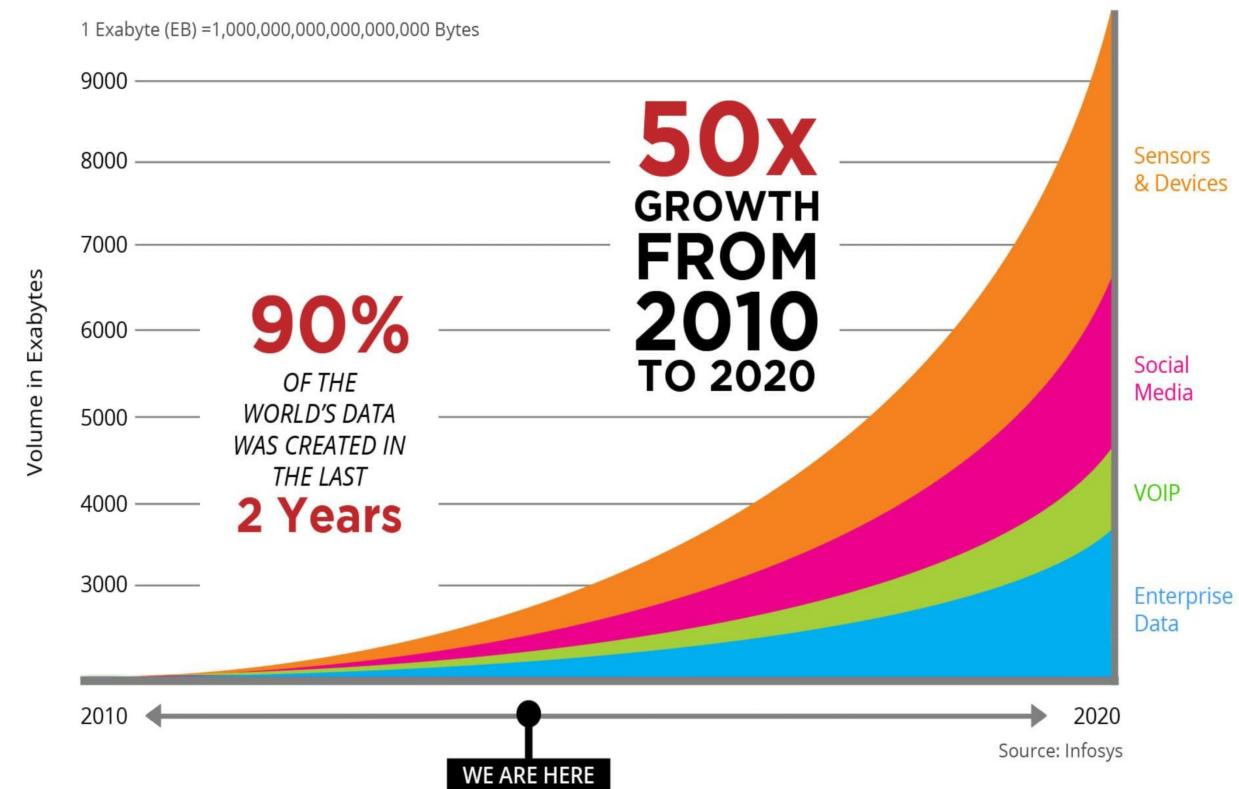
Financial times, July 2018

*"Fuel of the future - Data is giving rise to a new economy."*

The Economist, May 2017

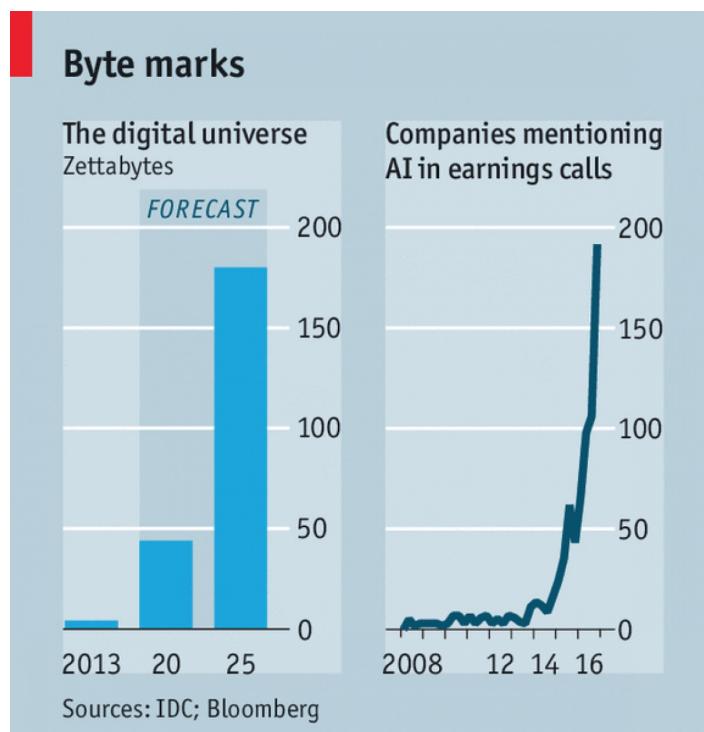
*"Wie Big Data die Finanzmärkte verändern könnte"*

NZZ, August 2018



# Changes to the economy

## Businesses employ AI/ML



## Jobs become obsolete



# Repeating the past

## A nerdy cartoon

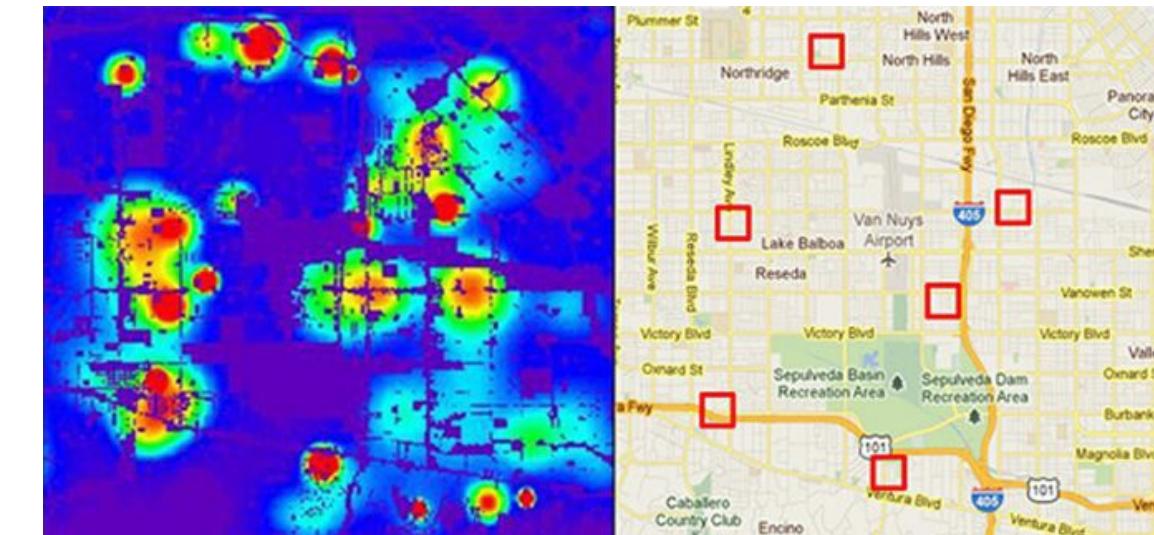


Thanks to machine-learning algorithms,  
the robot apocalypse was short-lived.

from smbc-comics.com

## The real world: Predictive policing

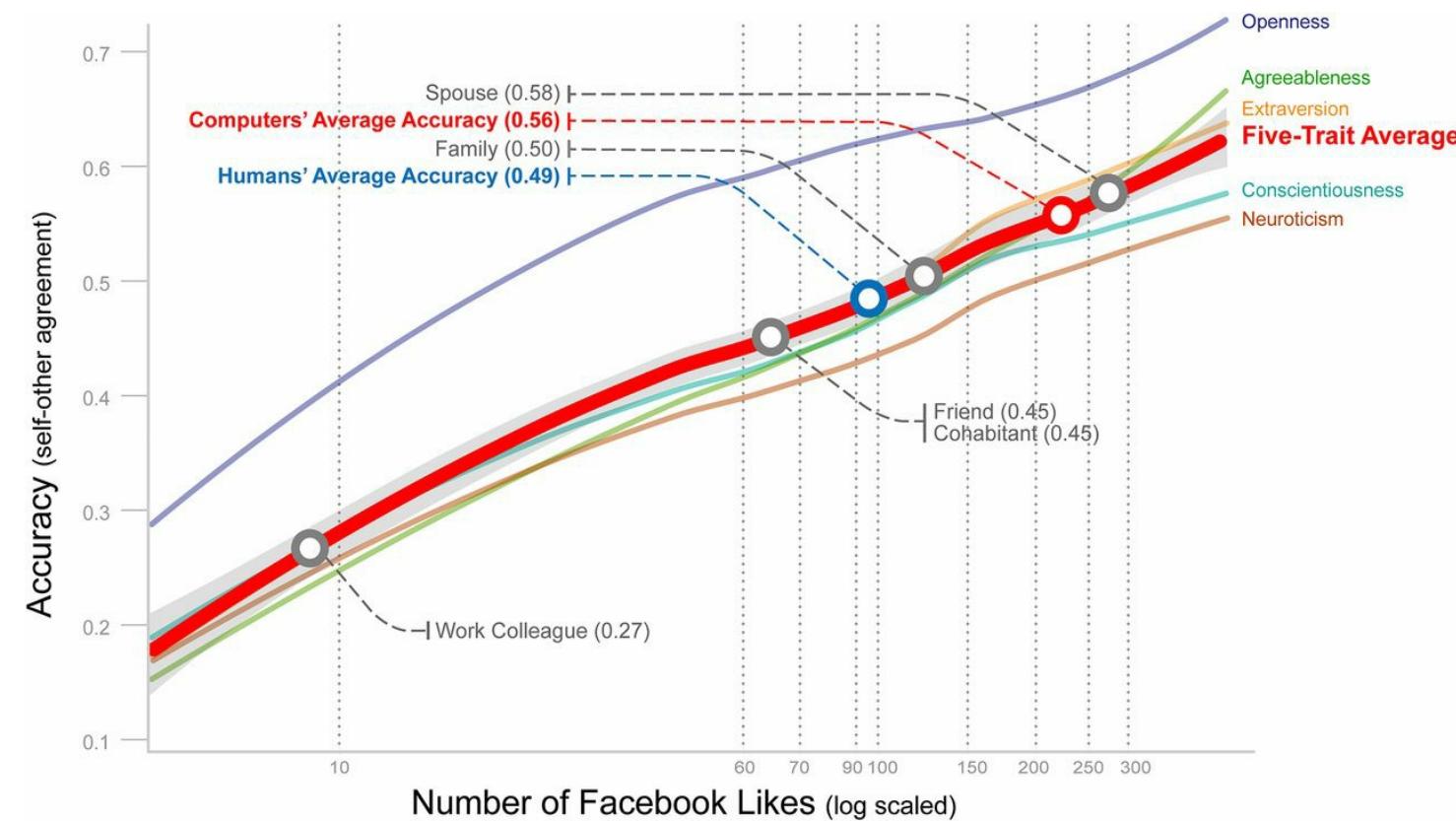
**The Economist**  
**Harvard Civil Rights Review**



# The end of privacy

*"Most technologies have their bright and dark side [...] My personal opinion is that a machine's ability to better understand us would lead to improved consumer experience, products, etc... But imagine that we published a clone of youarewhatyoulike.com that simply predicted which of your friends was gay (or Christian or liberal or HIV-positive, etc); lynchings are not unlikely to follow..."*

Michal Kosinski, Stanford University [\[Full text\]](#)



from [pnas.org](#)

# What do you think?

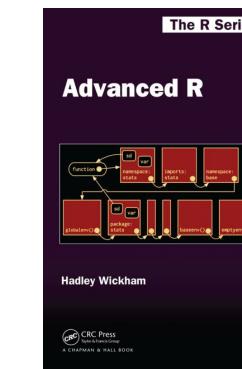
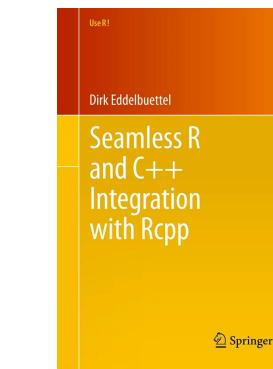
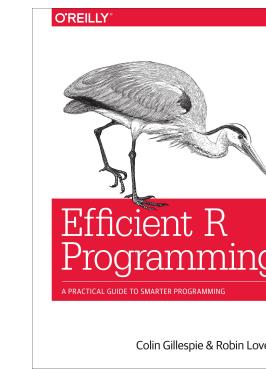
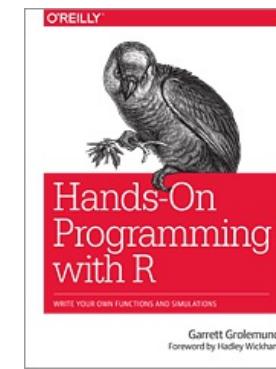
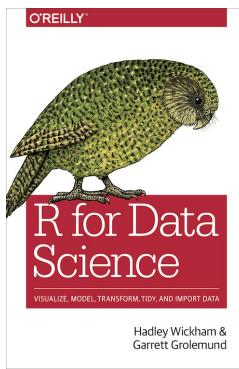
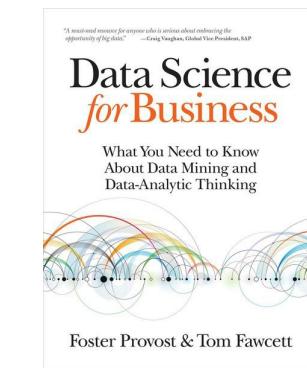
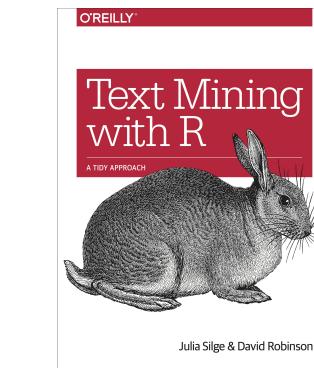
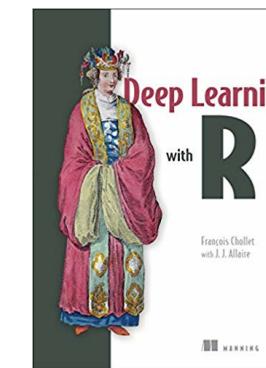
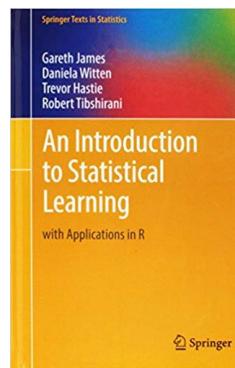
# Next steps

1. *Practice*
2. *Read books*
3. *Consult websites*
4. *Support & consulting*
5. *Upcoming courses*



# Books

Here is a very incomplete series of good books. They are ordered by complexity, beginning with user-friendly books on **learning statistics** in R and ending with books focusing on the more **advanced topics of the R language**.



# Websites

The web is a great place to learn about R.

*Best begin your journey with:*

[Google](#) or [Rseek](#), which is a wrapper around google to maximize hits related to R. However, most of the time Google works just fine. Just be sure to add `r` to the search query.

*Then you will be redirected to one of two pages*

[R-bloggers](#) is a website on which R users inform each other on the newest developments. See, e.g., Nathaniel's [entry](#).

[Stackoverflow](#) is a website on which R users exchange problems and solutions to problems. Try post something yourself. You will be amazed by the turnaround.



# Support & Consulting



**Dr. Dirk Wulff**

[dirkwulff.org](http://dirkwulff.org)  
[github.com/dwulff](https://github.com/dwulff)  
packages: `cstab`,  
`mousetrap`, `memnet` `choicepp`



**Markus Steiner**

[github.com/mdsteiner](https://github.com/mdsteiner)  
packages: `ShinyPsych`,  
`EFAdiff`

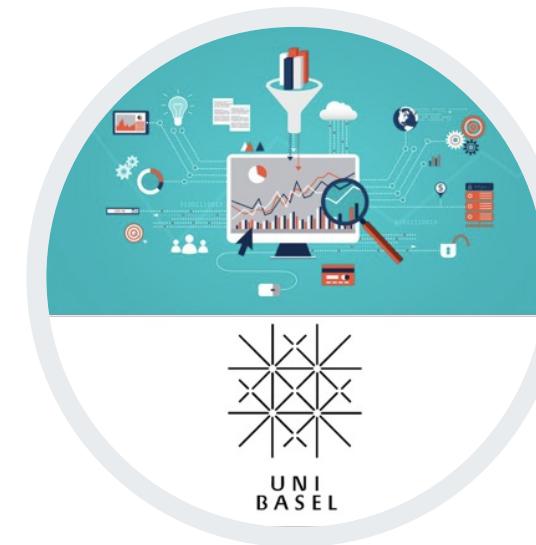


**Dr. Michael Schulte-  
Mecklenbeck**

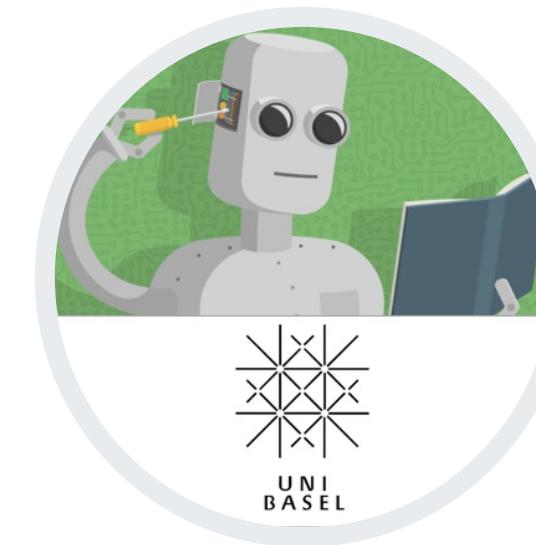
[schulte-mecklenbeck.com](http://schulte-mecklenbeck.com)  
[github.com/schultem](https://github.com/schultem)

# Upcoming courses

Data Mining mit R



Statistik mit R



Statistik mit R



2 days, February 14/15, 2020

2 days, March 13/14, 2019

2 days, May 15/16, 2019

# Please give us feedback



from [medium.com](https://medium.com)

## Basel R Bootcamp - Follow-up questionnaire

Please be so kind to take a few minutes and provide us with feedback for the Machine Learning with R bootcamp in October, 2019. In the first part you will have the chance to tell us what you think about the workshop in general. In the second part you can indicate which sessions you liked/disliked and why.

\* Erforderlich

### How did you hear about the bootcamp?

\*

- Google / Google Ad
- LinkedIn
- Advanced Studies website
- Friends and colleagues
- Facebook

Thank you! and one more thing...