Welcome!

Machine Learning with R Basel R Bootcamp









May 2019

Welcome to the Basel R Bootcamp!

Machine Learning with R May, 2019



from swisskyline.ch

Schedule and Materials

Click the "Bootcamp running" link on our homepage!

www.therbootcamp.com

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Aim

The aim of this workshop is enable you to thoughtfully implement machine learning methods, using R, to make data-driven decisions.



What we will cover

- 1 Intro to the **fundamentals** of ML.
- 2 Intro to a few influential ML models.
- 3 Intro to using R for ML.
- 4 Opportunity to **learn by doing**.
- 5 Opportunity for **discussion**.

What we will NOT cover

In depth, advanced treatment of ML.

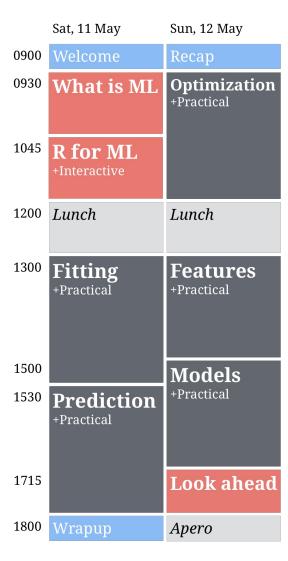


from machinelearningplus.com

Schedule

We have an ambitious schedule!

- 2 days, 3-4 sessions per day, 1.5 2 hours per session, on a variety 1045 R for ML of topics.
- Each session contains a slide-based **introduction** and a hands-on ₁₂₀₀ *Lunch* programming interactive or practical



Introduction

30 - 45 minutes slide based introduction to help you understand the basic concepts, including:

- 1 Theory
- 2 Code examples
- 3 Live demonstrations

All available online. Follow along, and don't worry about memorizing

This is a Link to our materials.

Be interactive! Ask questions!



from Freepik.com



from Freepik.com

Practicals

Write your own R scripts!

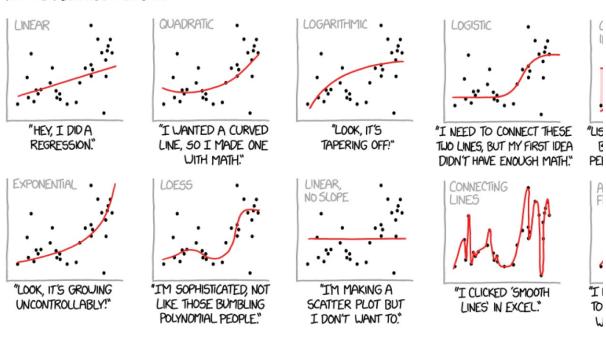
- Anywhere from 10 ~ 30 programming tasks.
- Starts easy, gets progressively more challenging.
- Go at your own pace and finish as much as you can.
 - We have a diverse group with different backgrounds and interests, we love that!
- Be active! Ask questions!
- We'll give you all the answers later.

Fitting

Machine Learning with R

● (https://therbootcamp.github.io/ML_2019May/) (https://therbootc

CURVE-FITTING METHODS AND THE MESSAGES THEY SEND



1-1 Coaching

Learning a computer language is **hard**.

Take breaks when you need them, and don't get discouraged!

Sometimes, you may find yourself in need of some intensive help. That's ok! We're here to help!

At any time, you can request a 15 minute 1-1 intensive coaching session. We'll grab a coffee and work through it together.

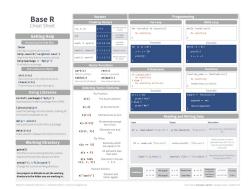
WHEN YOU HEAR THIS:



from geek-and-poke.com

Cheatsheets

Base R



Data Import



Data Transformation



Caret



Breaks

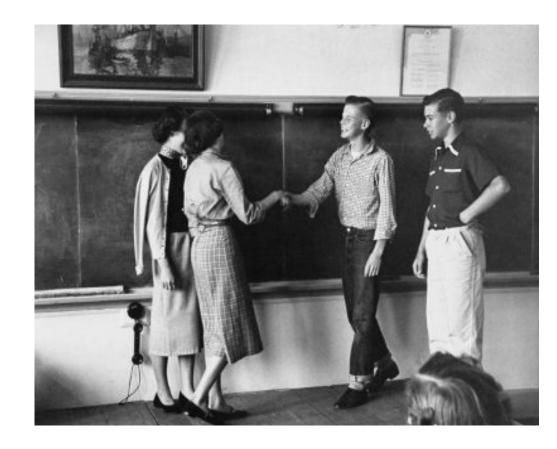
- Programming is exhausting! **Take breaks** when you need them!
- Help yourself to refreshments and as much coffee as you can drink.
- Lunch on your own or walk with the group to Tibits or the **Union Diner**
- Be back in the room at **13:00 sharp** so we can continue learning!



from Tibits.ch

Introductions

- 1. What is your name?
- 2. Where are you from?
- 3. What is your current profession?
- 4. What is your programming experience with R and in general?
- 5. What is your experience with ML?
- 6. What would you most like to do with ML?
- 7. Coffee or tea?
- 8. Pizza or pasta?
- 9. Beer or wine?
- 10. Berlin or Paris?



artofmanliness.com

Schedule

