







Schedule



Remarks on the group project

Tools

Group Building!

Teaser

First Group Task

Questions?



Remarks



- Real world ...
 - Problem
 - Environment
 - Evaluation
- Benefits
 - Organize in a group
 - Project for your CV
 - Crucial tool experience



Tools



- Git / Github
 - Every team hosts a project
 - Try to use:
 - Branches
 - Issues
 - Invite us to the repo / send a link if public: lunatic, calamansi, powl7
- Programming Tools
 e.g. maven (Java)
- (Visualization Tools)



Group Building



→ https://www.strawpoll.me/12569359
Vote

Pick a «team color» if you already have a preference
 We do not guarantee that this groups stay together

Wait for further instructions

Schedule

Week	Exercise	Deadline
W05 - 20.3. L05	Ex 2a	W08
W06 - 27.3. L06	Ex 2b	W08
W07 - 03.4. L07		
W08 - 10.4. L08	Ex 3	W11
W09 - 17.4 (Easter)		
W10 - 24.4. L09		
W11 - 01.5. L10	Ex 4/5	W14
W12 - 08.5 (Team Work)		
W13 - 15.5. L11		
W14 - 22.5. L12	Presentation	
W15 - 29.5 (Q & A)		



Project Teaser – Exercise 4



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https://vimeo.com/119938371









First Group Exercise (3a)



Strictly defined task

To get you started as a team

Think a bit about design first



Task



- Apply SVM to the MNIST dataset
- Investigate at least two kernels
 e.g. linear, and RBF
- Optimize parameters using cross-validation

- Output
 - Average accuracy during cross-validation
 - Accuracy on the test set with optimized parameters



References



General

LibSVM: https://www.csie.ntu.edu.tw/~cjlin/libsvm/

Java

Weka: http://weka.wikispaces.com/LibSVM

Python

Scikit-learn: http://scikit-learn.org/stable/modules/svm.html

Matlab

Svmtrain: https://ch.mathworks.com/help/stats/svmtrain.html





