Computational Thinking and Data Science

- CT now widespread in K-12 education
 - Often data analytics is mentioned in connection with CT
 - However, most CT efforts focus on programming
 - Often in an imperative style eg. Scratch or Python
 - Often focussed on robots or on screen simulations
 - Data analytics usually done declaratively
 - Spreadsheets, R, SQL, Scala, Spark/Hadoop, tensorflow
 - Thus there is a need for bridging the gap between imperative and declarative programming
 - Aim of this project is to develop a more declarative approach to CT
 - Starting point
 - Work done in the DFF project Popular Parallel Programming (P3)
 - extending the OpenSource spreadsheet FunCalc
 - 1st semester of DV data analytics with spreadsheets (and Python)
 - 9th semester of DV technologies for DV
 - Work started 1.9.2021
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