



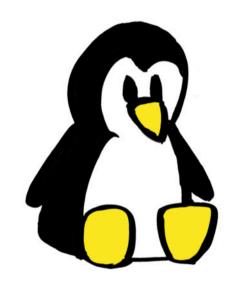
NAME: VICTOR LAMBRET

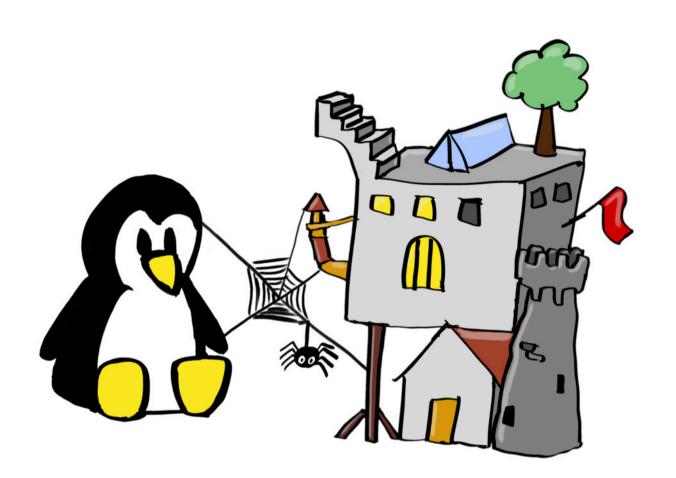
AGE: OX28

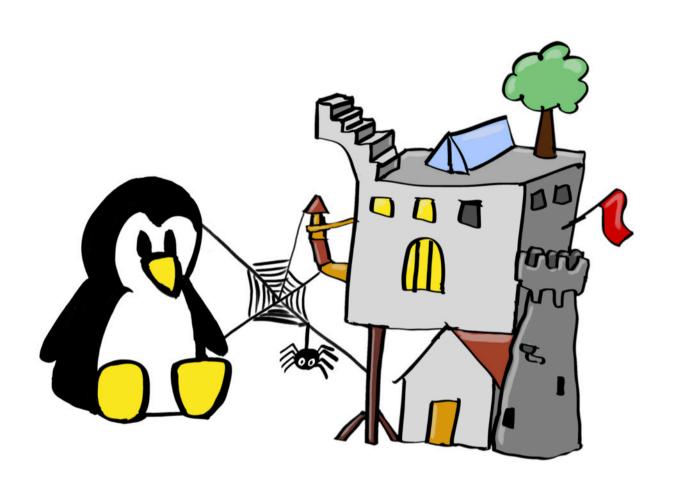
JOB: BACKEND

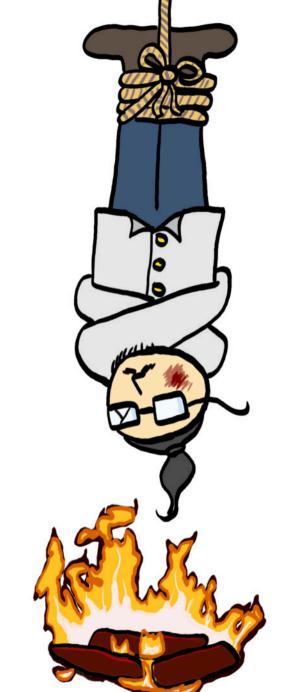
DEVELOPER

COMPANY: AGICAP









WHY YOUR IT PROJECT MAY BE RISKIER THAN YOU THINK

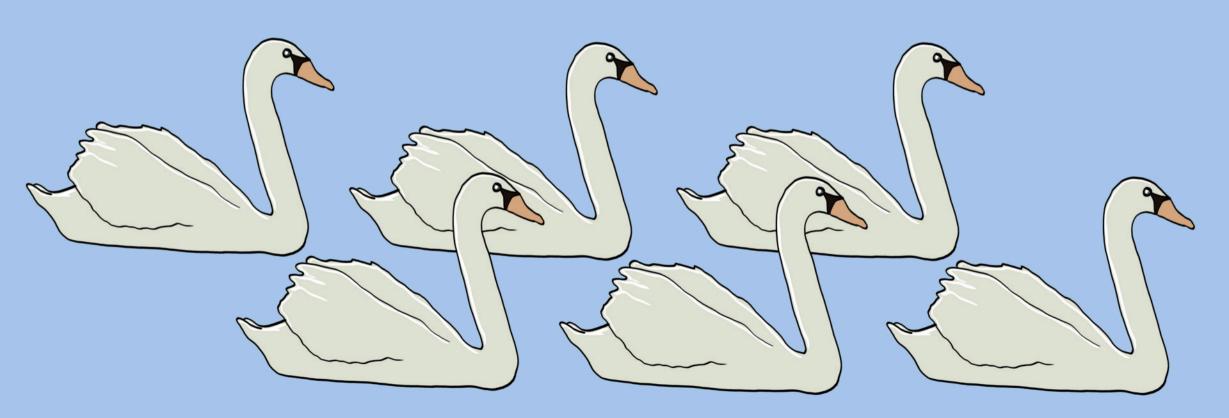


Flyvbjerg, Bent and Budzier, Alexander

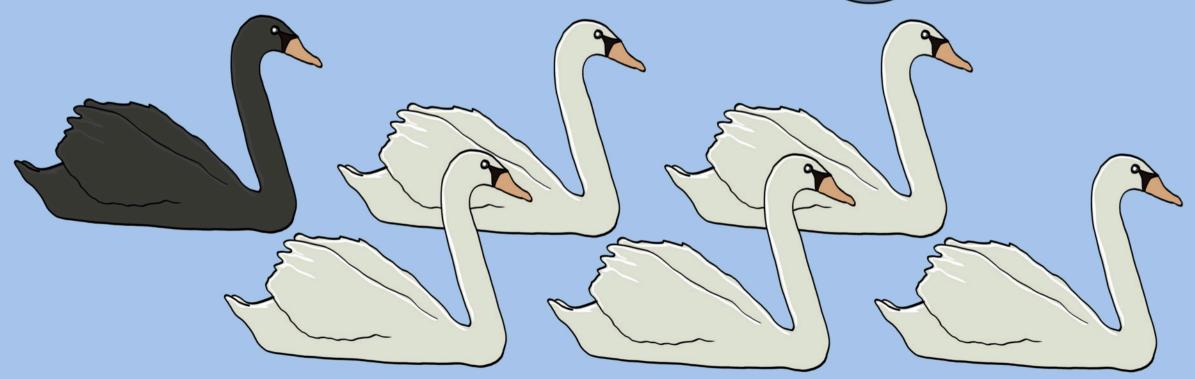
2011 - Harvard business review

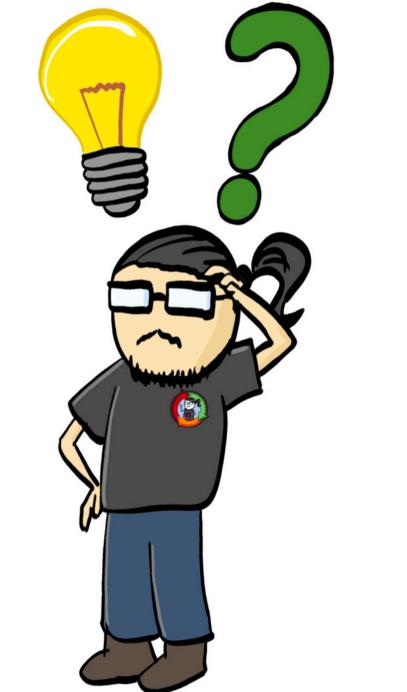
AVERAGE





+200% AVERAGE +70%









evels of Empe (SIMPLIFIED)

META ANALYSIS



CASE STUDY

AGILE

SCRUM

NoEstimate





ACADEMIC RESEARCH



(PEER - REVIEWED)

NON-ACADEMIC MATERIAL



(WIDER RANGE OF TOPICS)

(I) CONTEXT

II

III

IV

V

VI

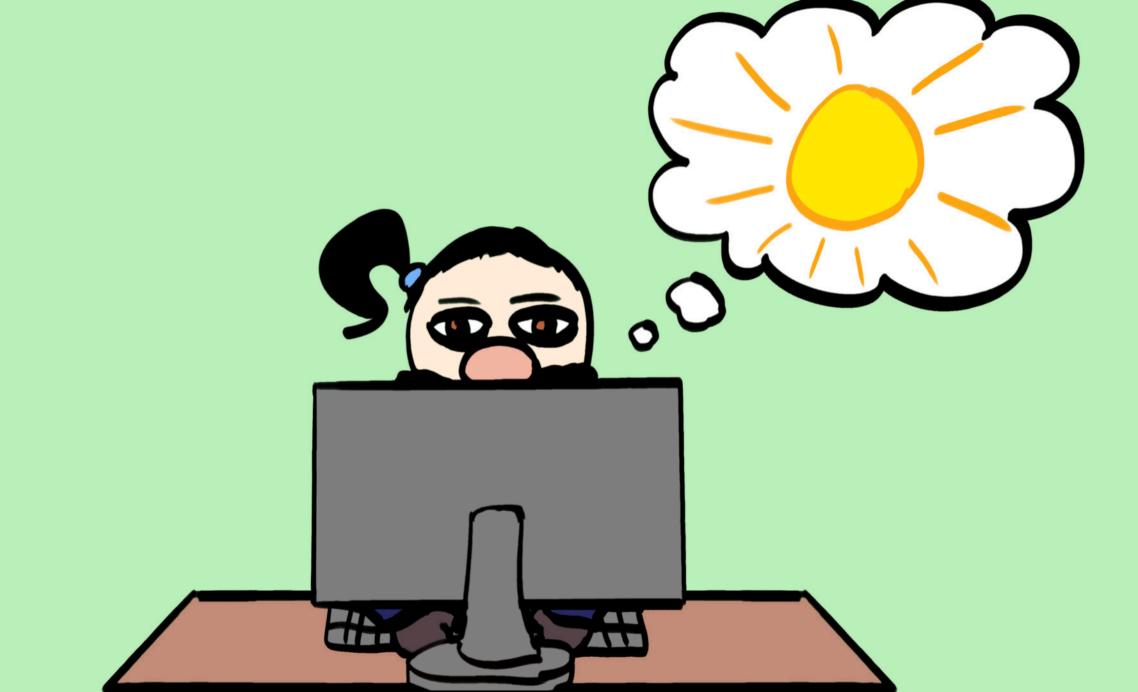
VII



EXTREME









LORD FRAGOR





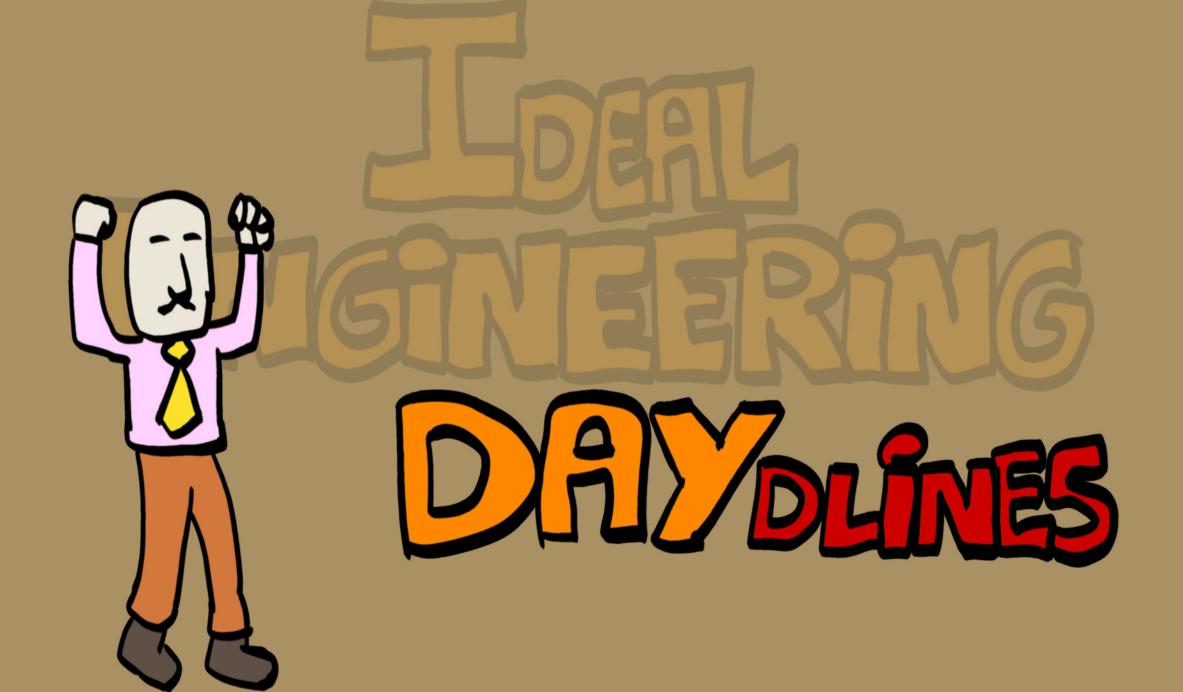


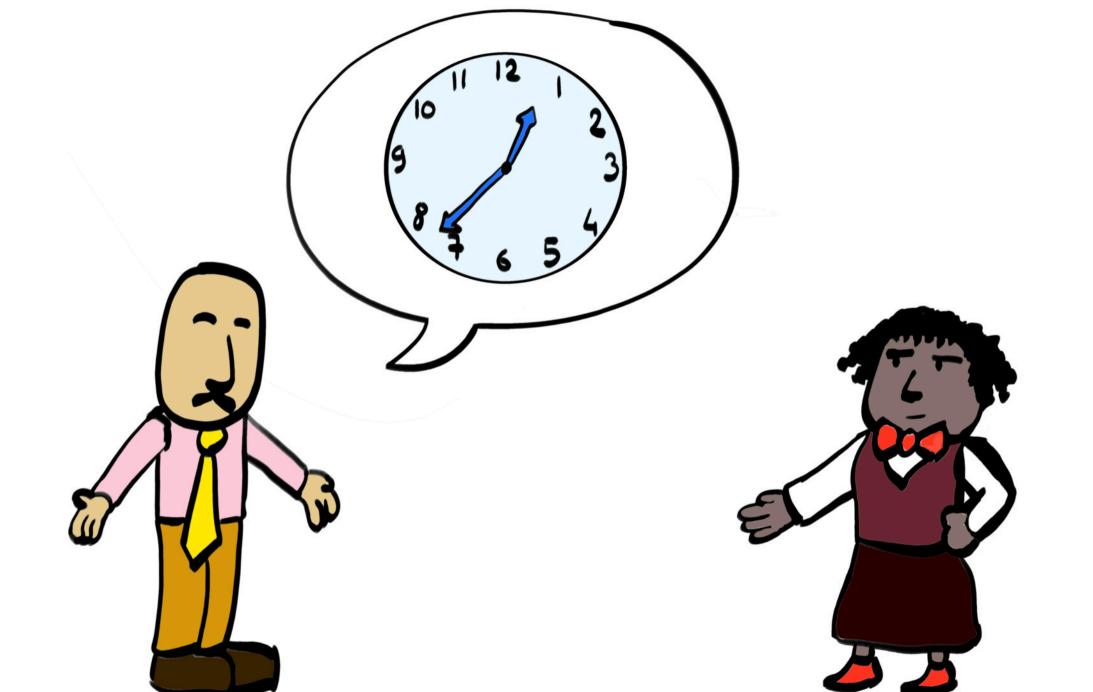


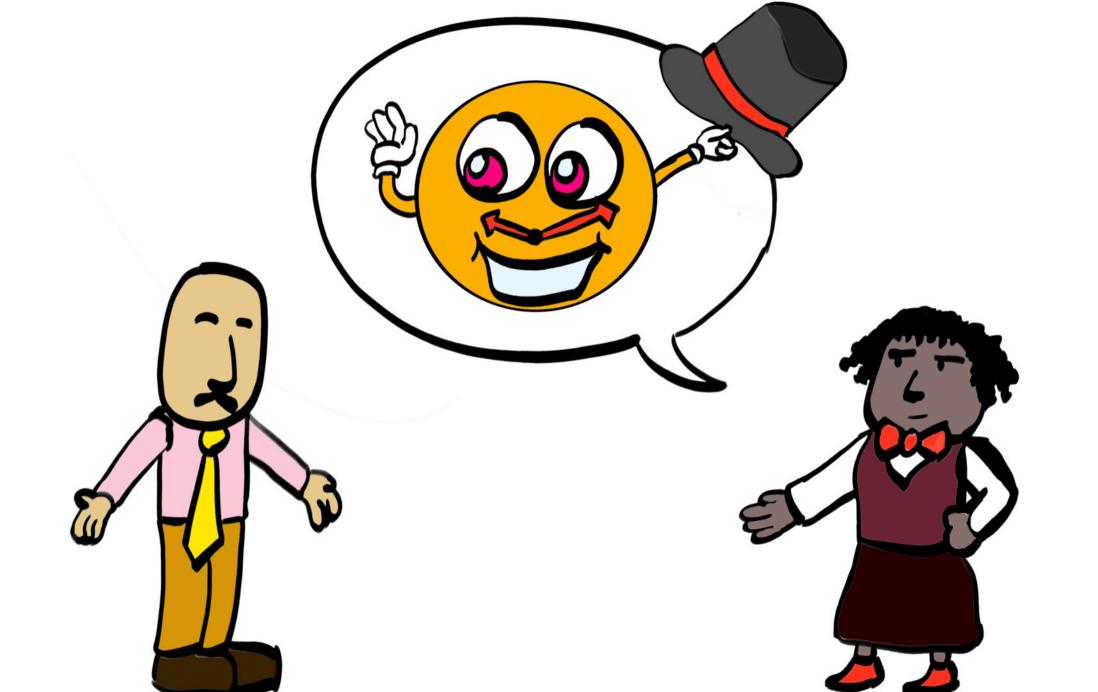


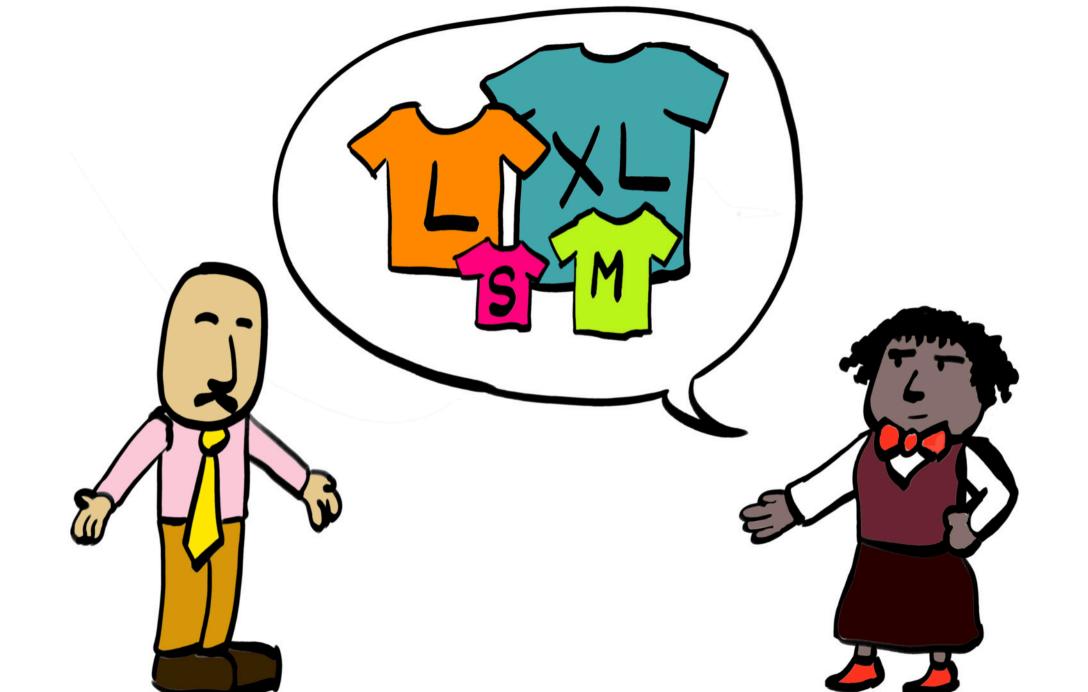






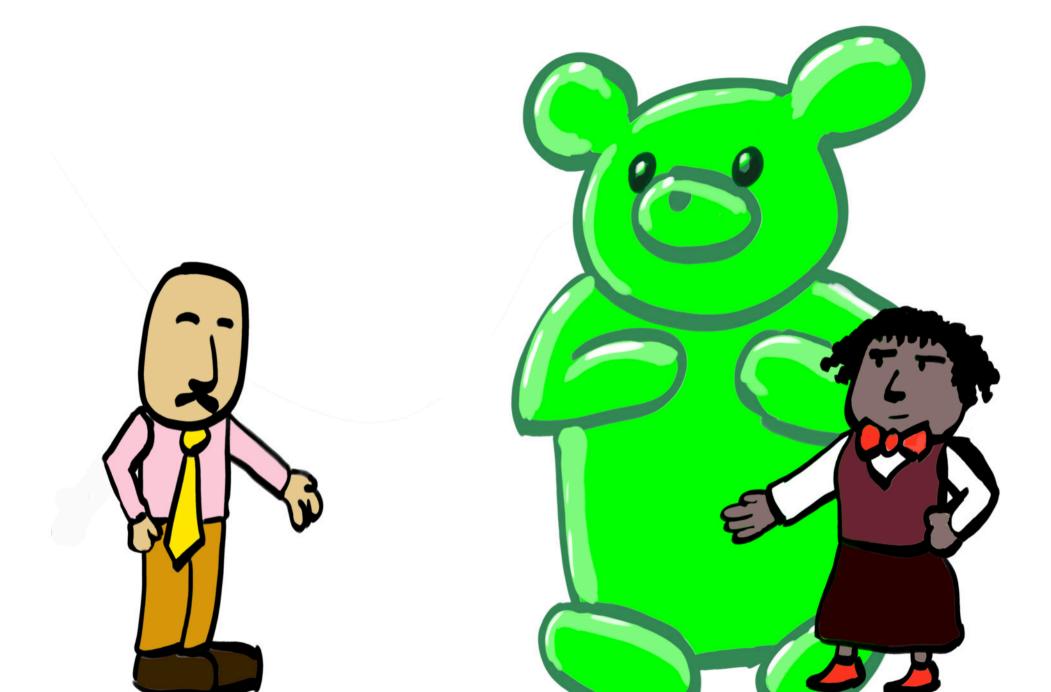


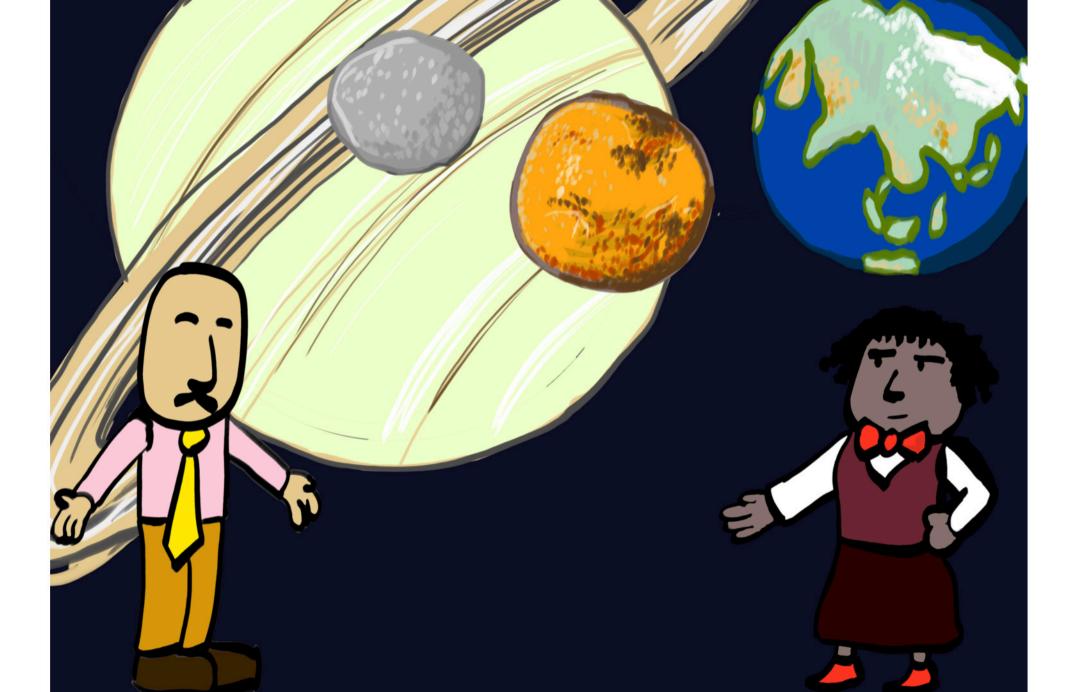




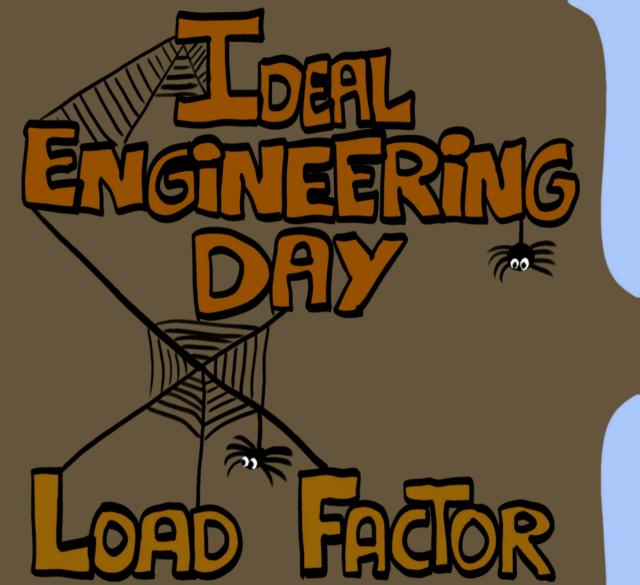














VELOCITY

EFFORT ESTIMATION IN AGILE SOFTWARE DEVELOPMENT: A SURVEY ON THE STATE OF THE PRACTICE



Usman, Muhammad and Mendes, Emilia and Börstler, Jürgen

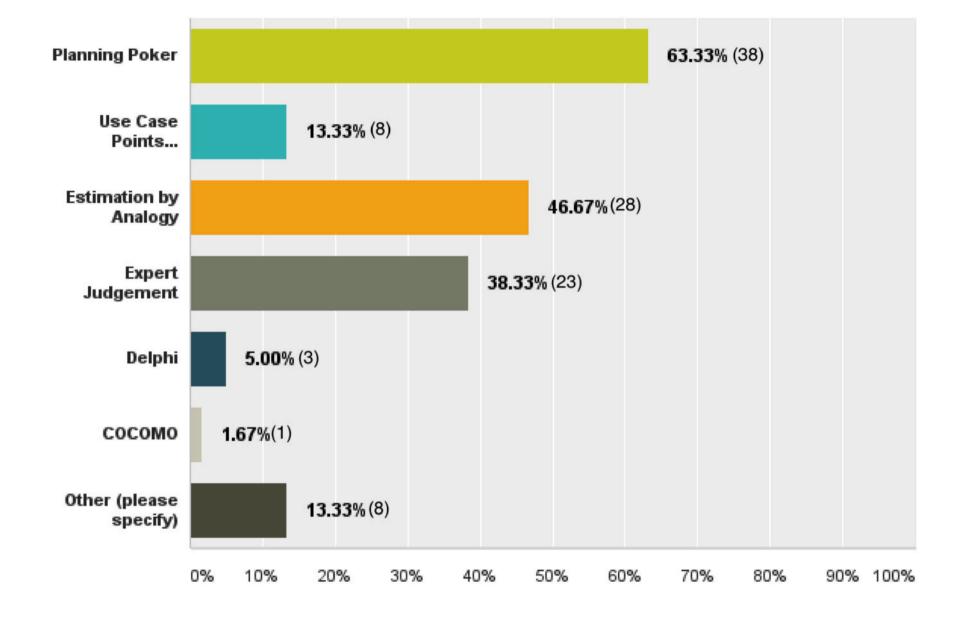


Figure 3: Effort Estimation Techniques

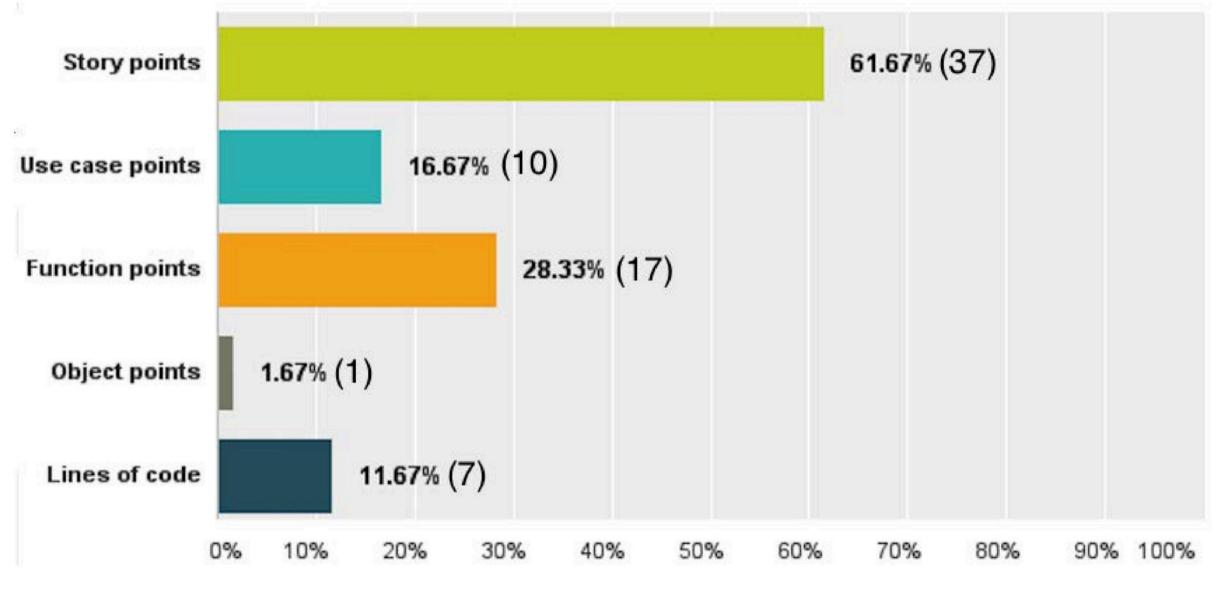
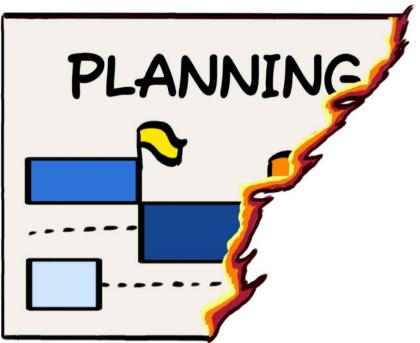


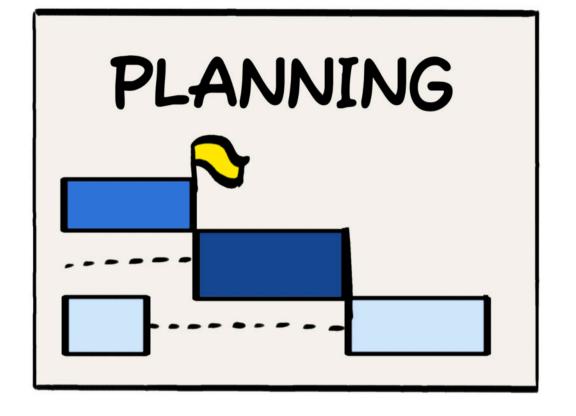
Figure 4: Size Metrics

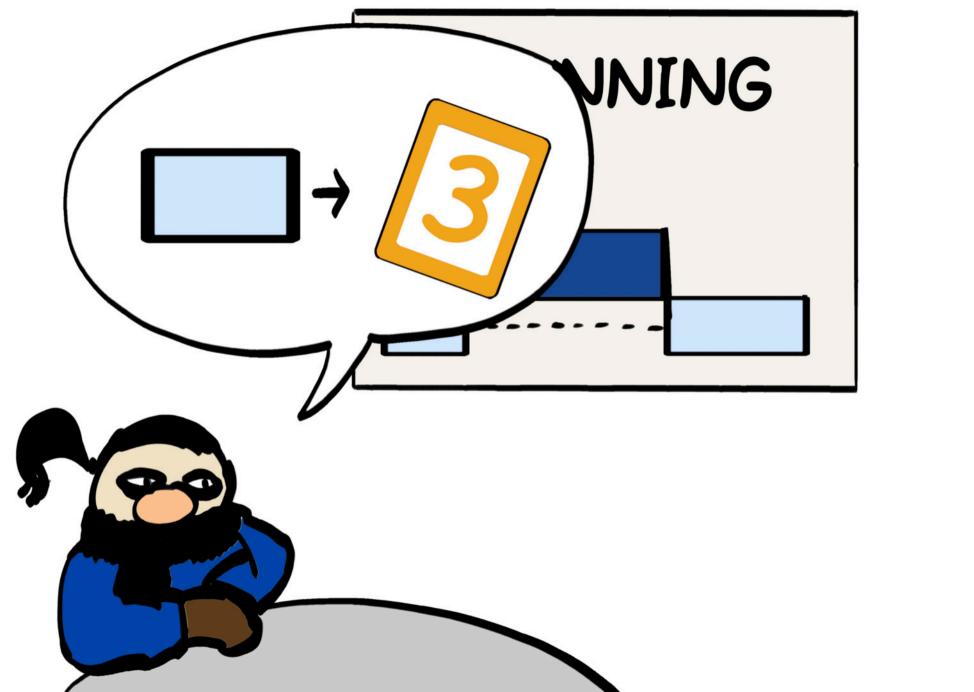


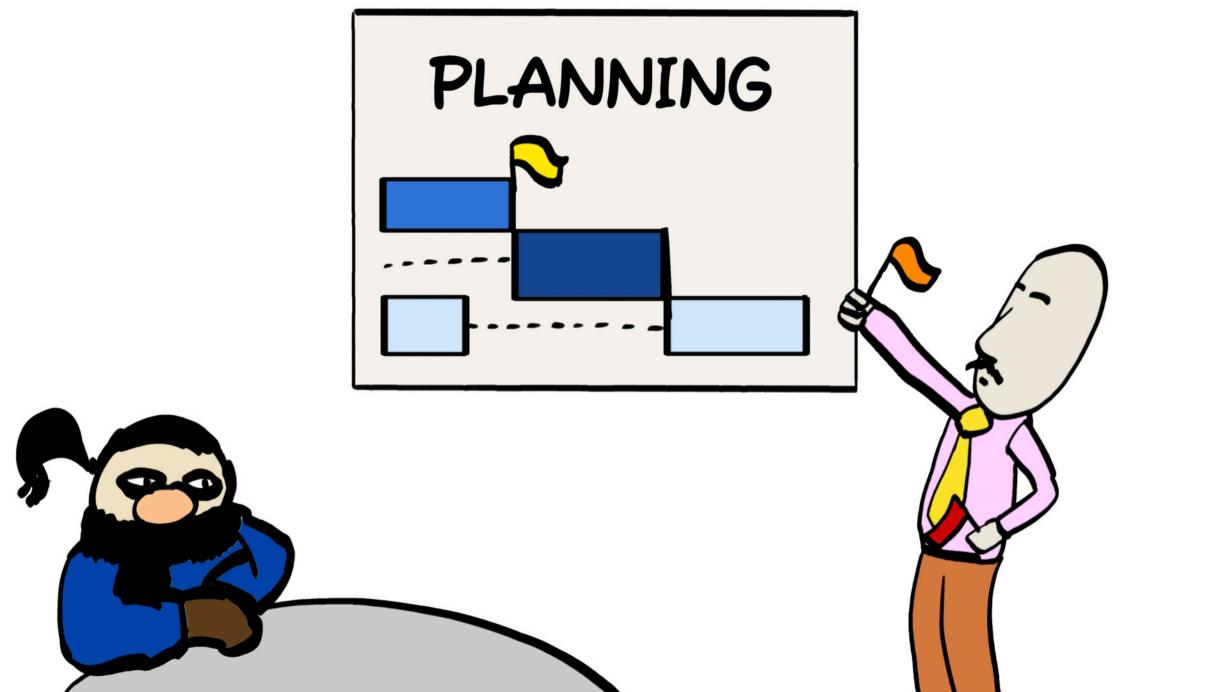






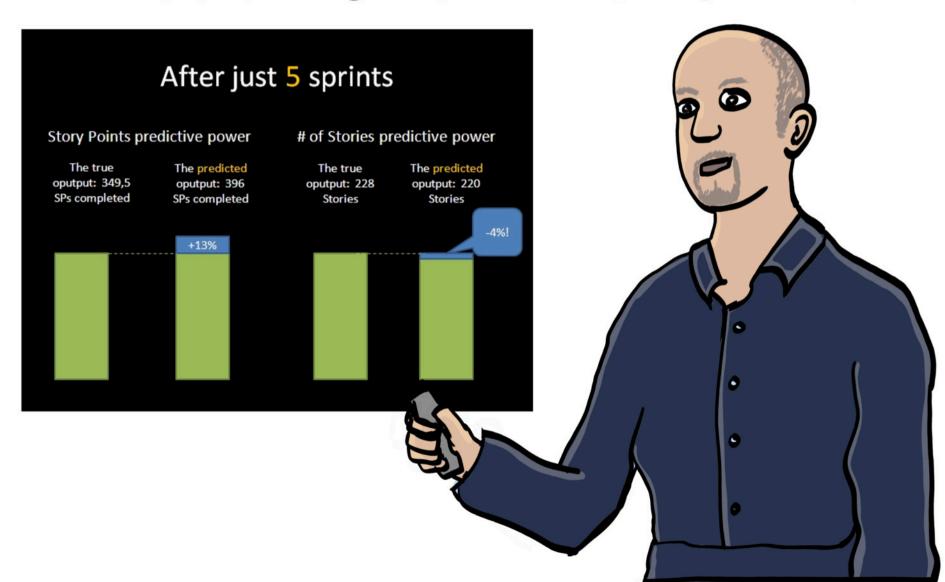


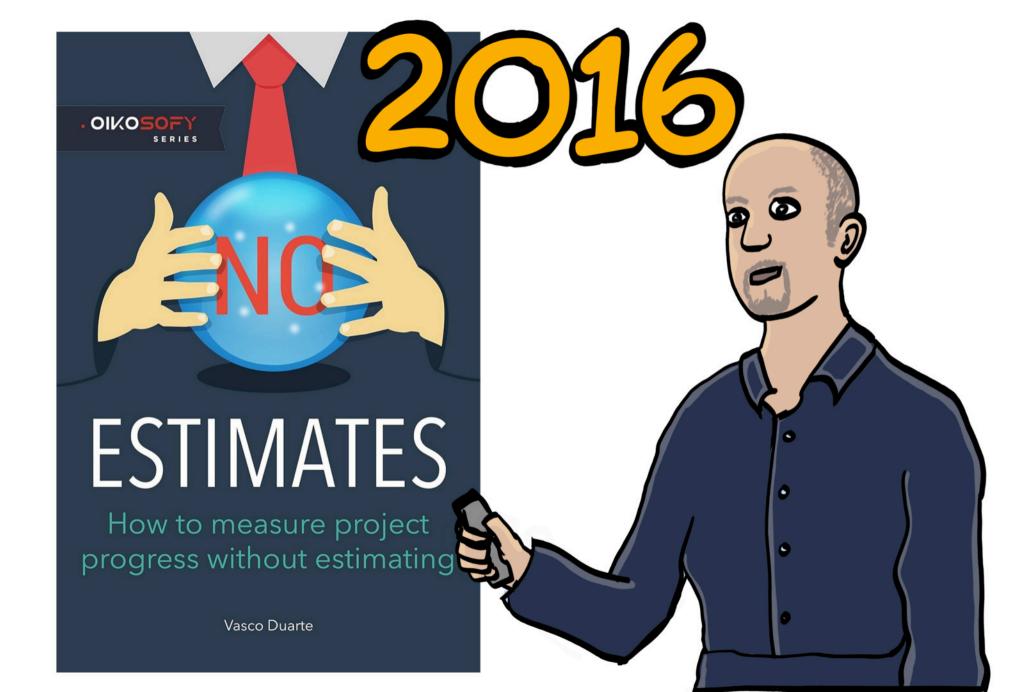


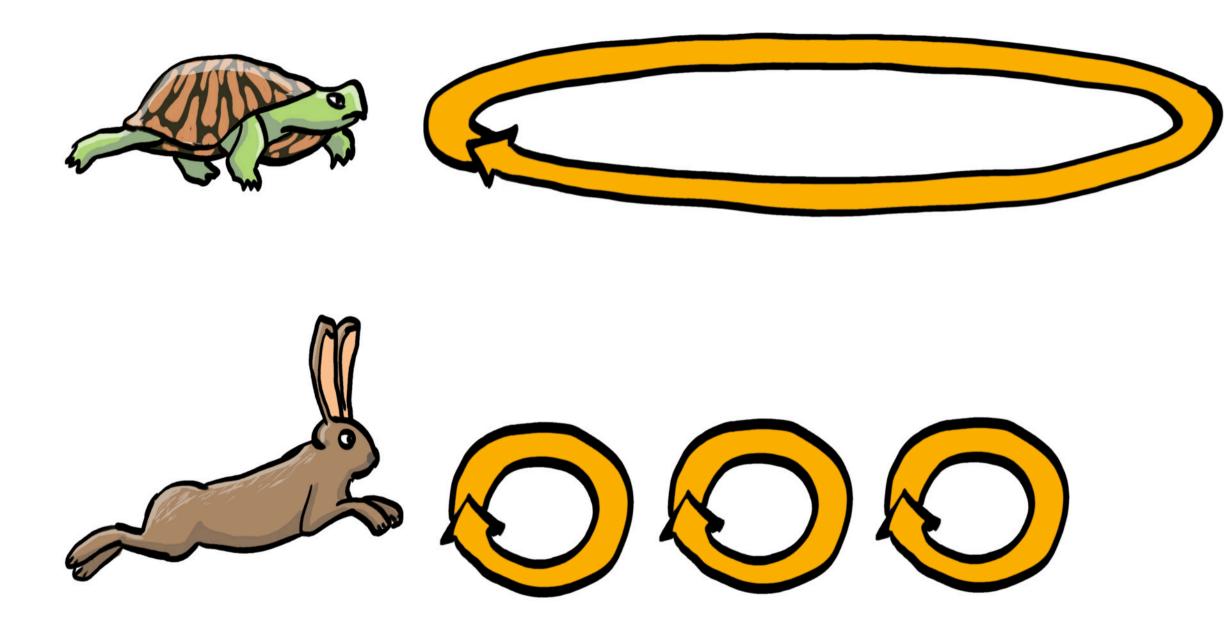




2012A BETTER WAY TO PREDICT RELEASE DATE!













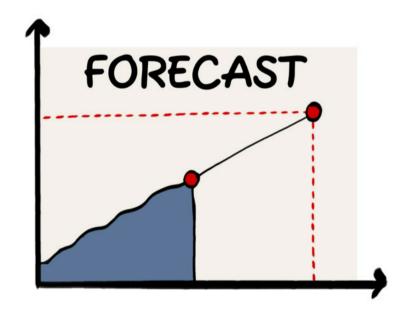




#No Estimates















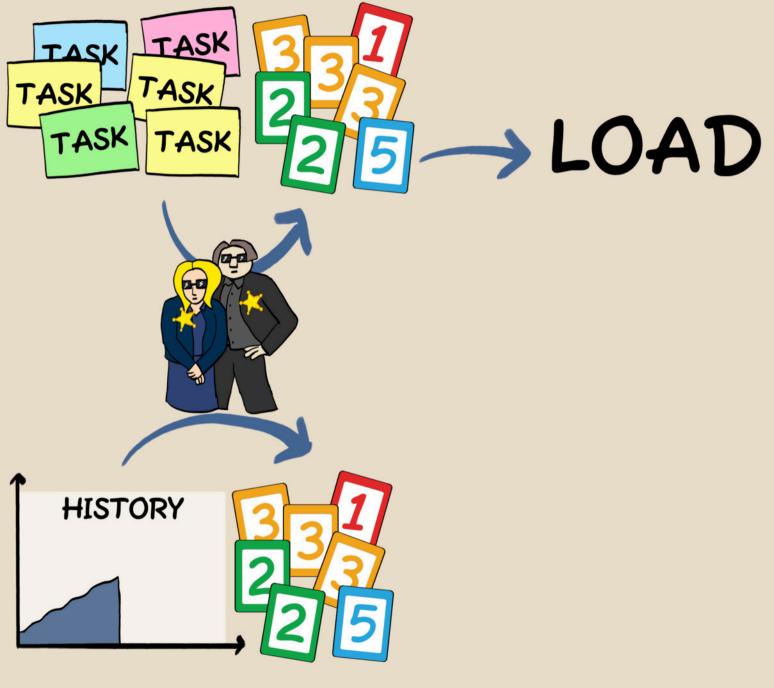


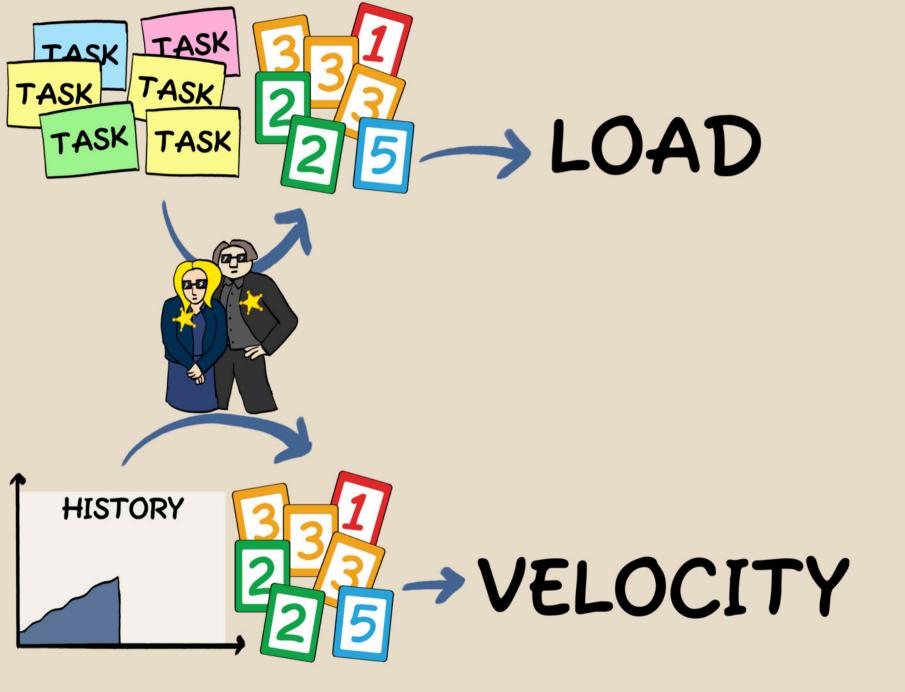


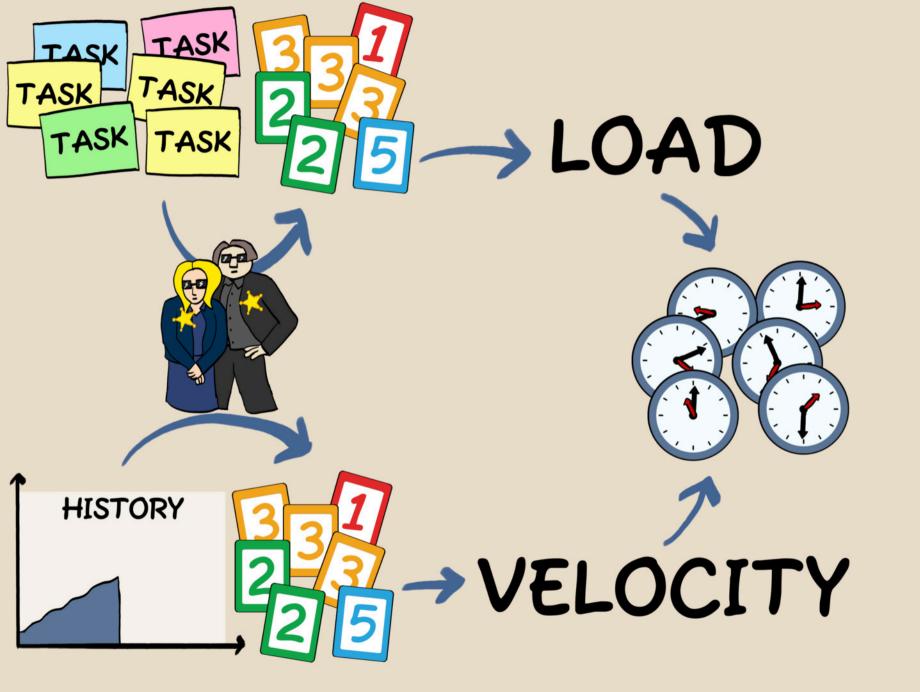


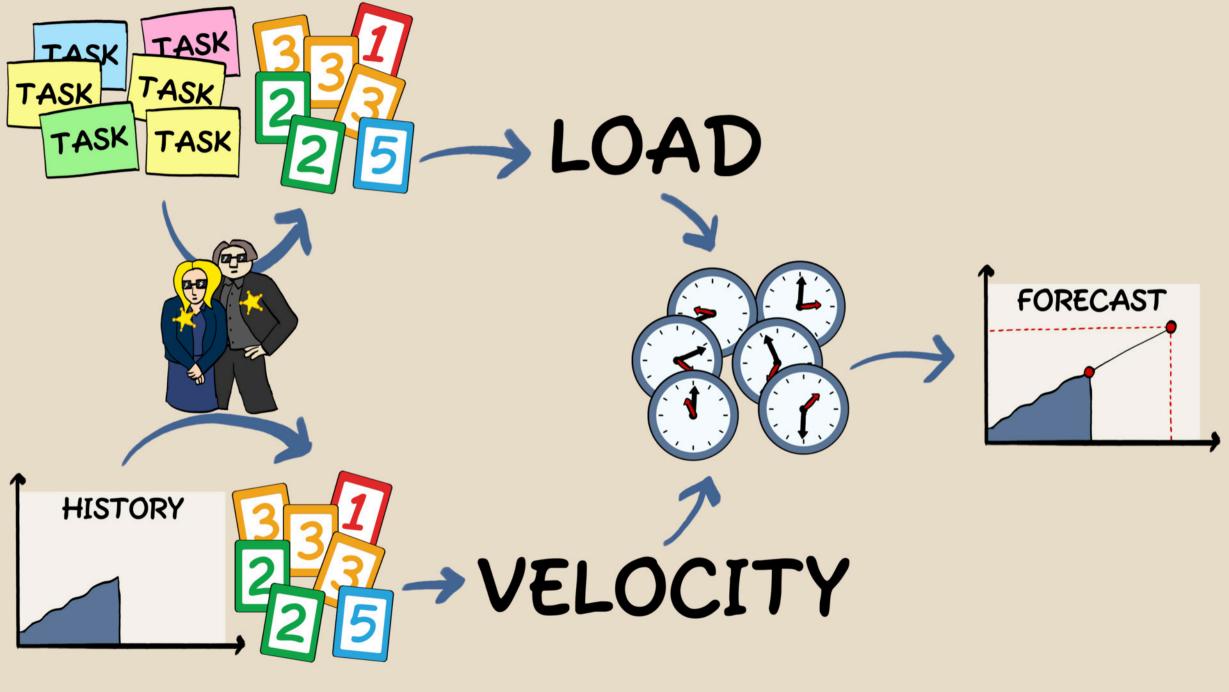


HISTORY

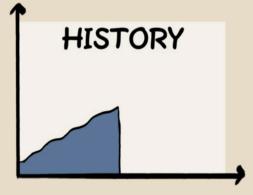




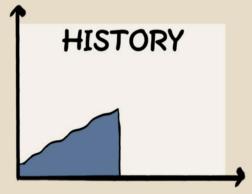






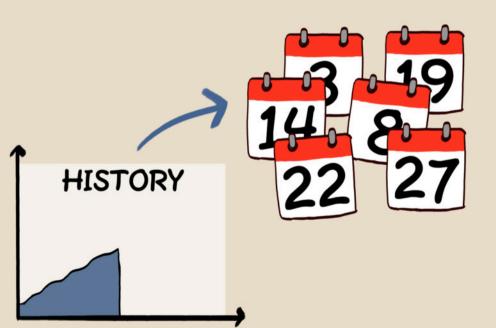






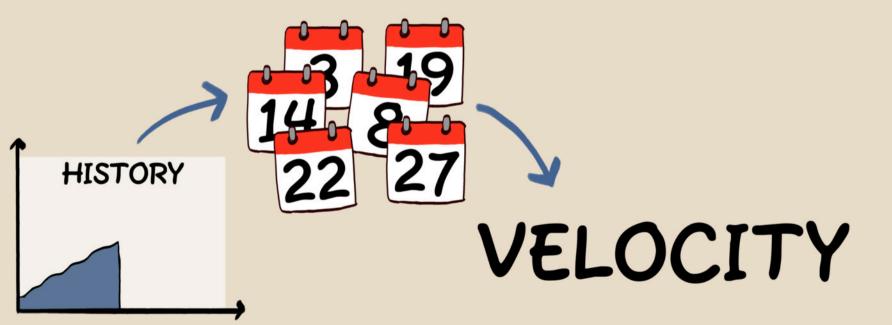


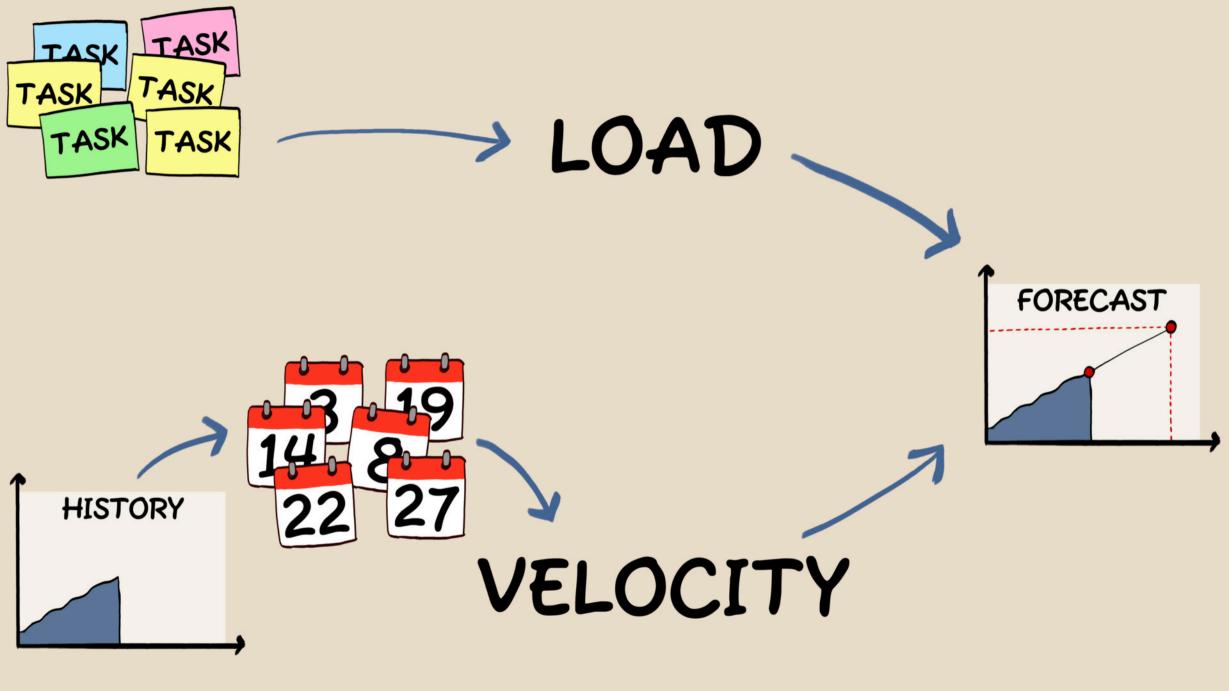
> LOAD

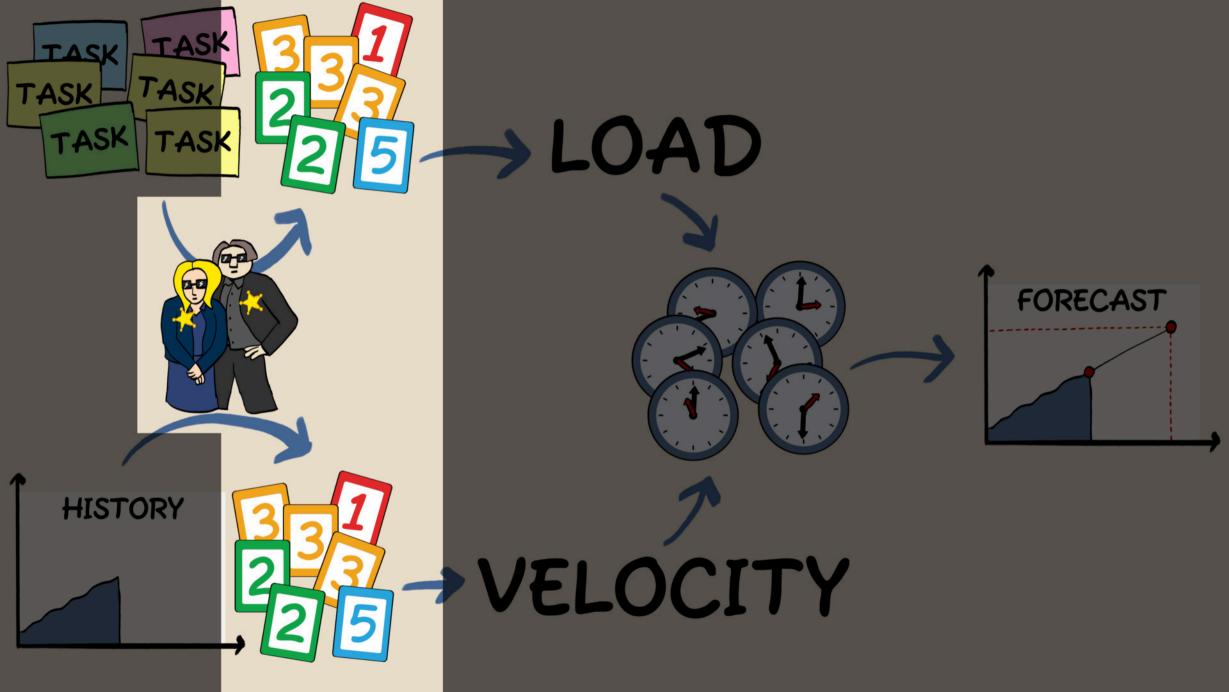


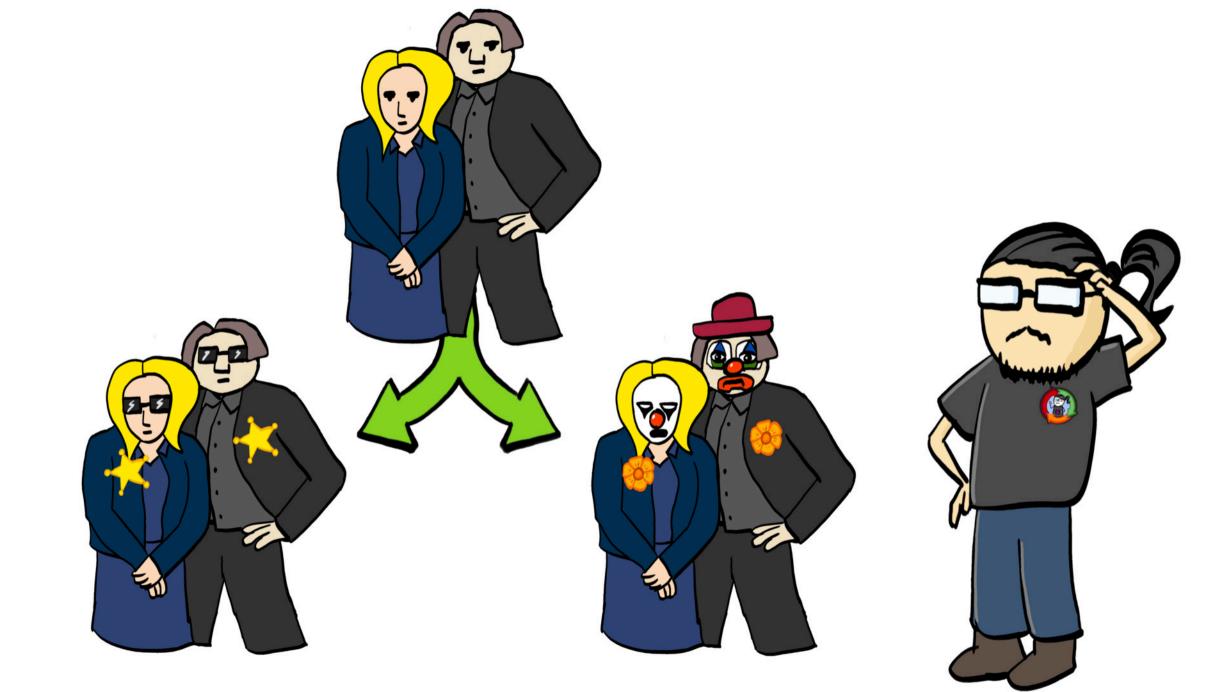


> LOAD









I CONTEXT

(II) STORY POINTS

III

IV

V

VI

VII

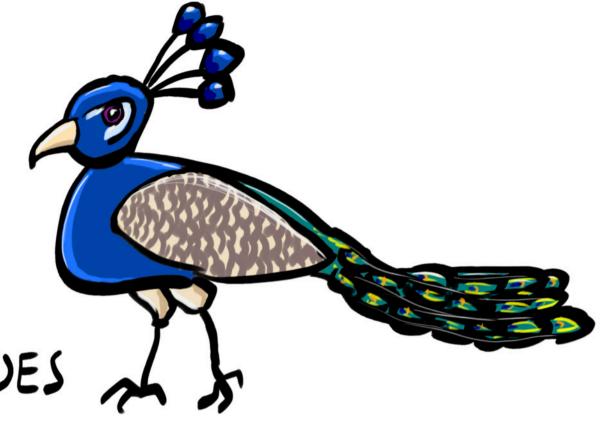
ON THE RELATIONSHIP BETWEEN STORY POINT AND DEVELOPMENT EFFORT IN AGILE OPEN-SOURCE SOFTWARE



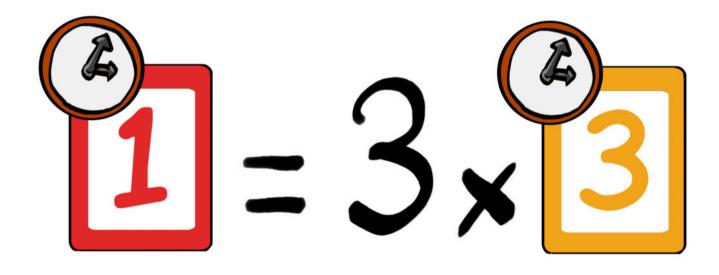
Tawosi, Vali and Moussa, Rebecca and Sarro, Federica

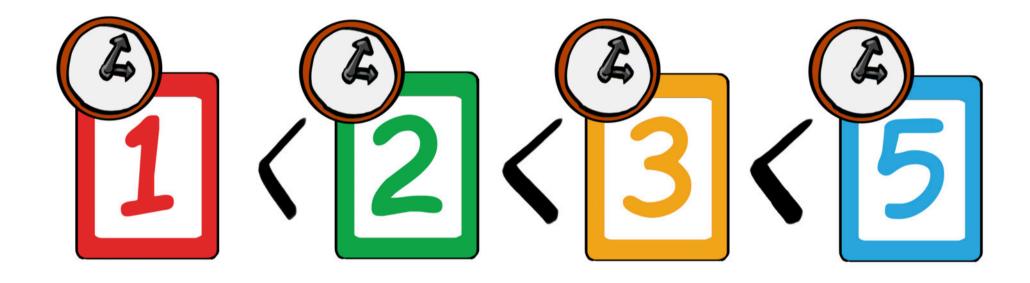
TAWOS DATASET

39 PROJECTS
450 0000 ISSUES









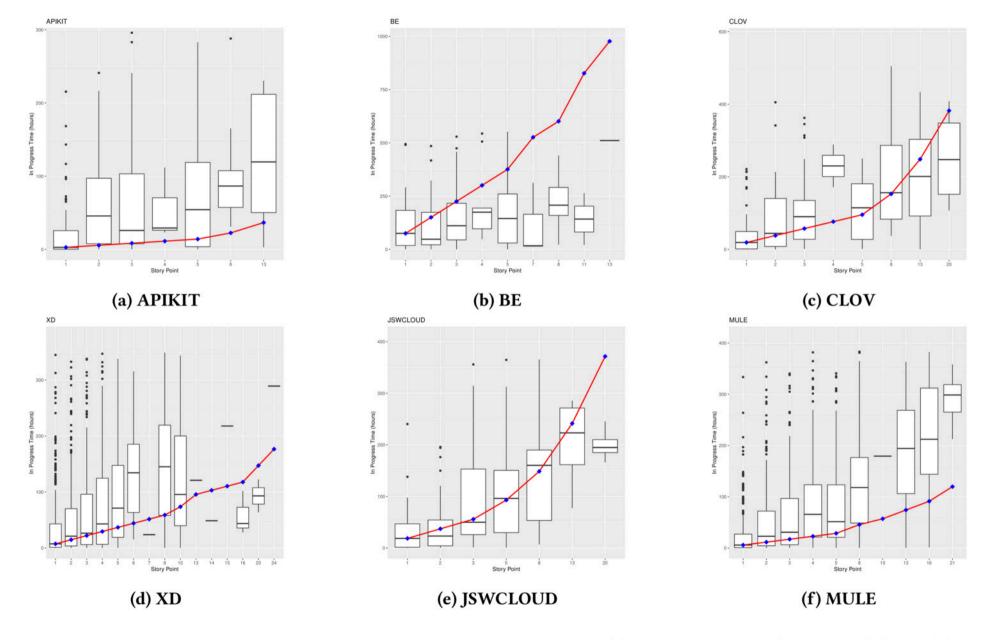


Figure 2: Boxplots of the distribution of development time per SP class for (a) APIKIT, (b) BE, (c) CLOV, (d) XD, (e) JSWCLOUD, (f) MULE. The red line depicts a project-specific baseline, drawn based on the median development time for one SP.

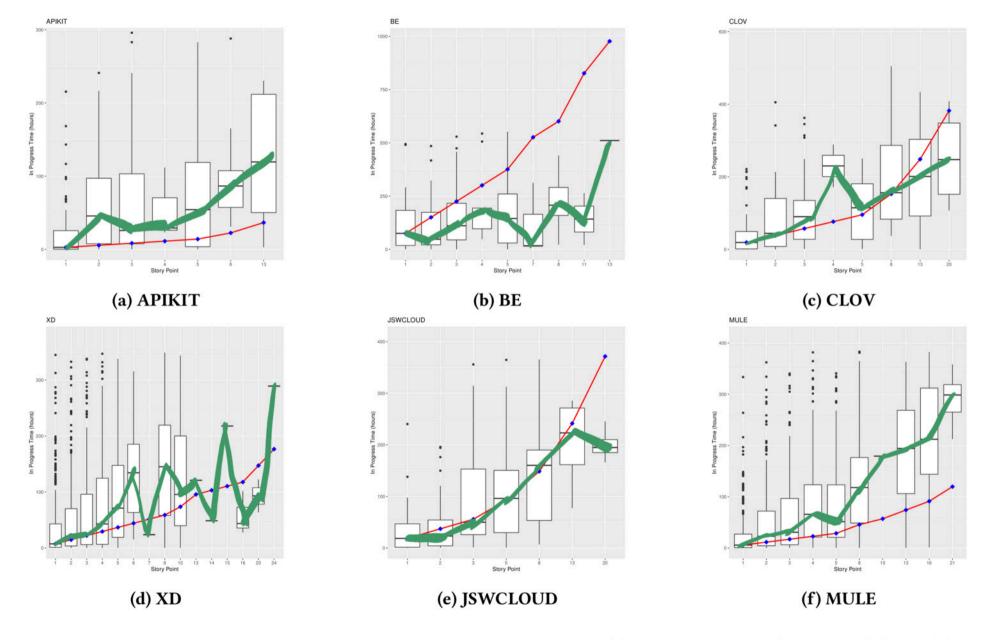
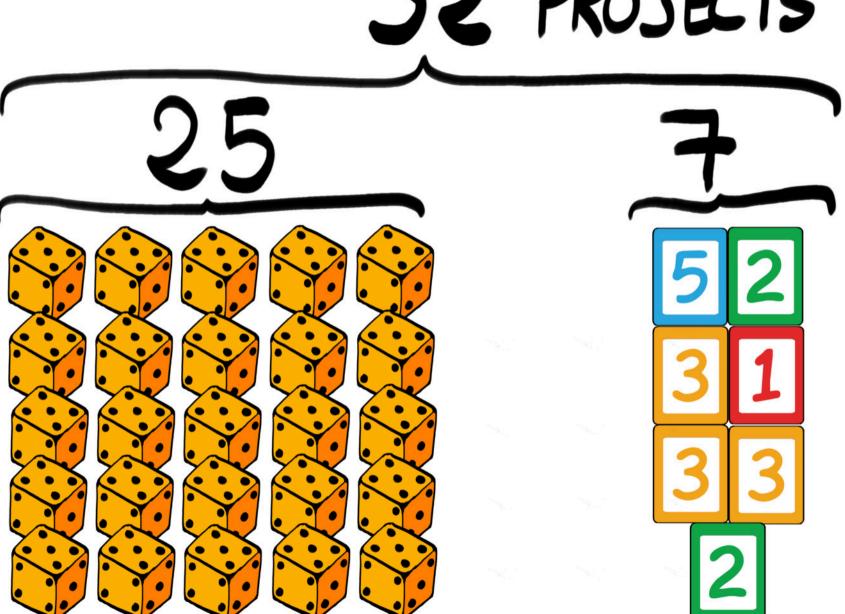
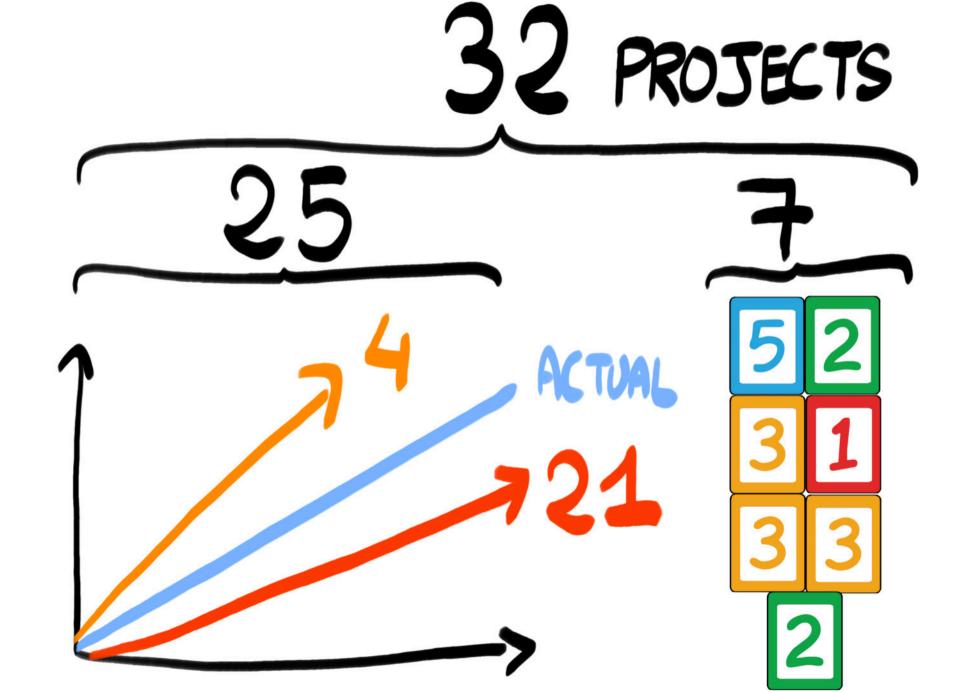
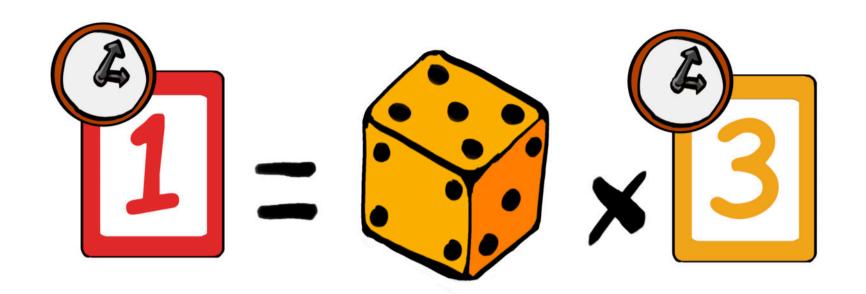


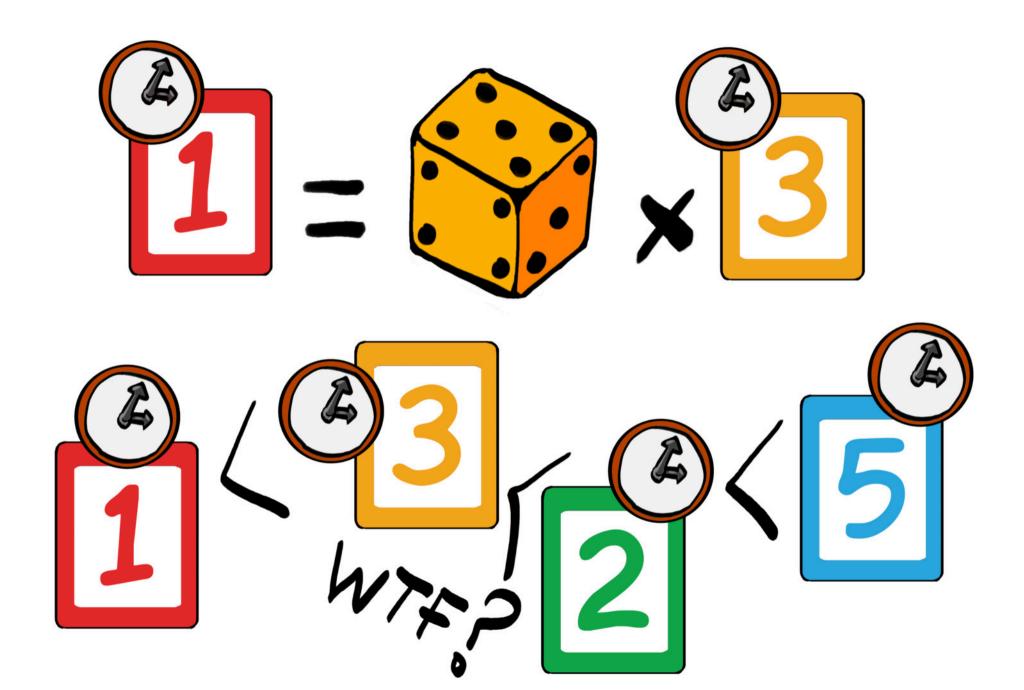
Figure 2: Boxplots of the distribution of development time per SP class for (a) APIKIT, (b) BE, (c) CLOV, (d) XD, (e) JSWCLOUD, (f) MULE. The red line depicts a project-specific baseline, drawn based on the median development time for one SP.

32 PROJECTS

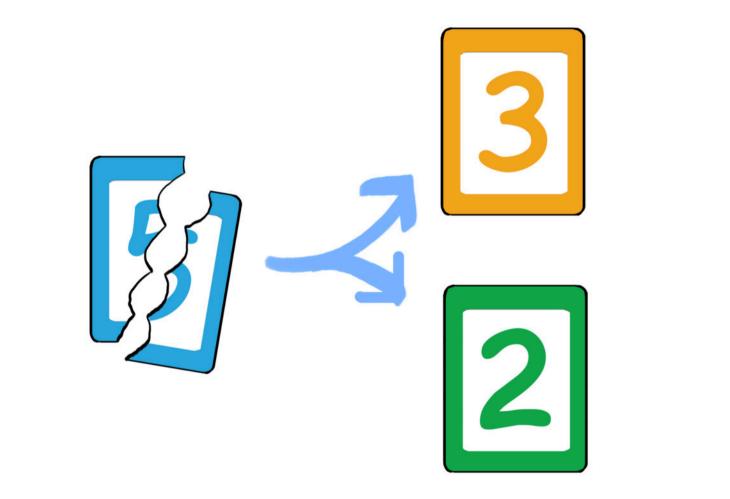














SP showed a low (50%) or medium (25%) correlation with Timespent

SEXTAMT: A SYSTEMATIC MAP TO NAVIGATE THE WIDE SEAS OF FACTORS AFFECTING EXPERT JUDGMENT SOFTWARE ESTIMATES



Matsubara, Patrícia and Gadelha, Bruno and Steinmacher, Igor and Conte, Tayana

2021 - Journal of Systems and Software

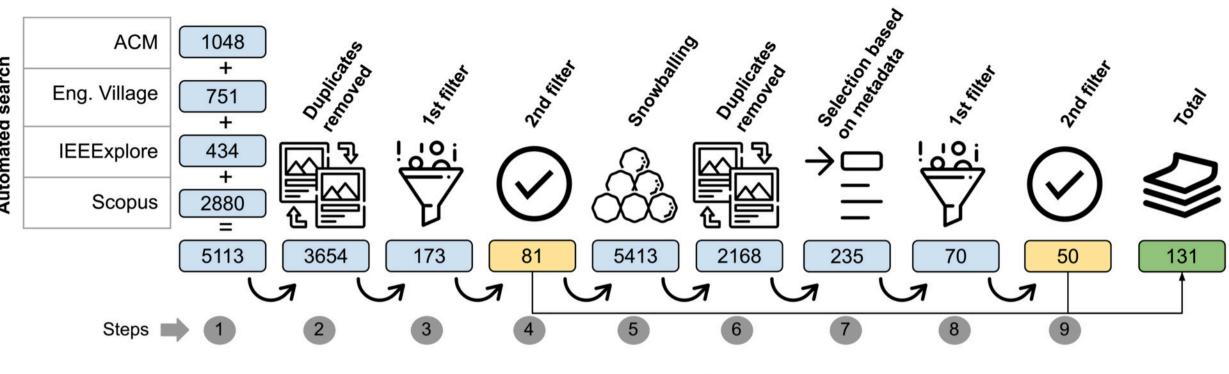


Figure 1 - Search and selection results

235 FACTORS 69 EXPLORED SEVERAL TIMES

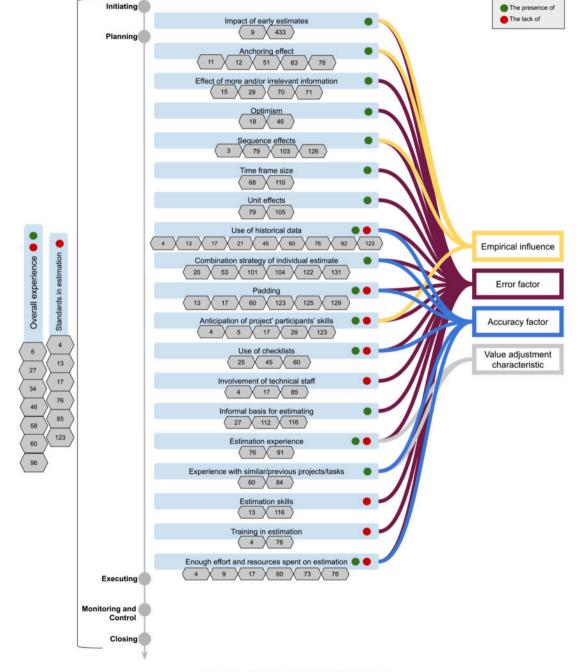
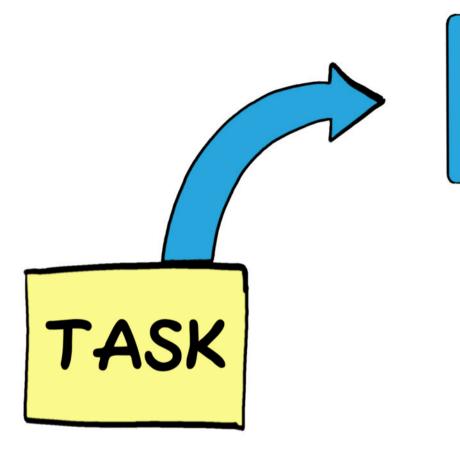
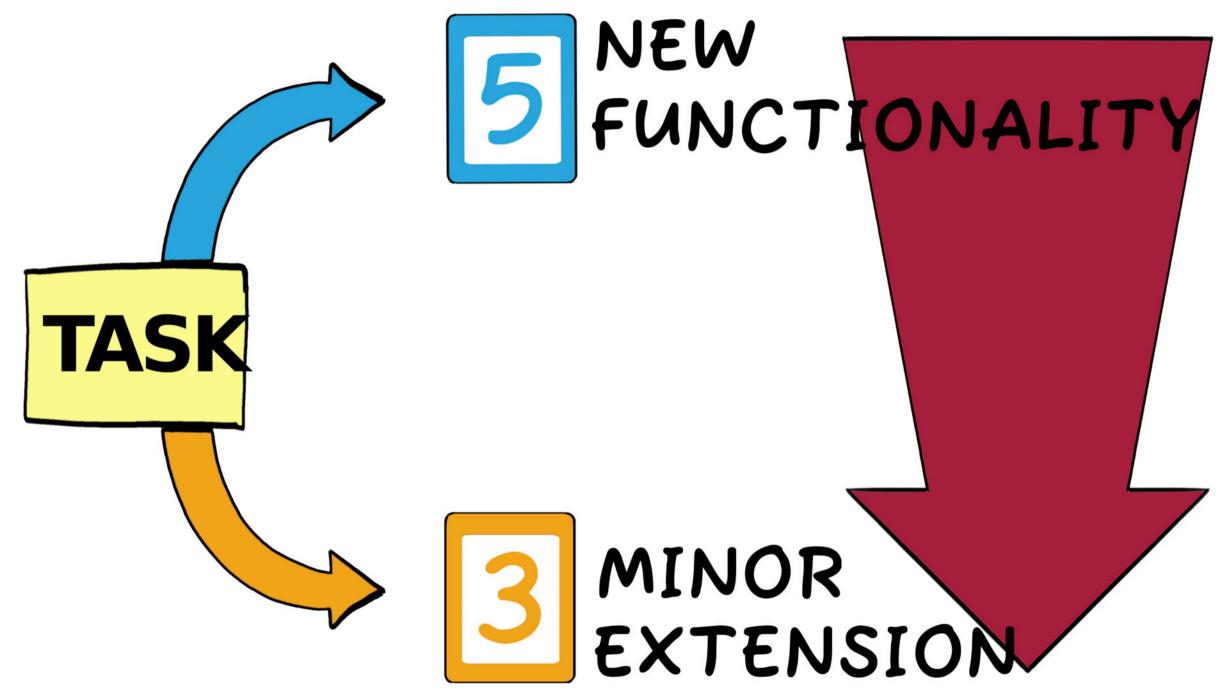


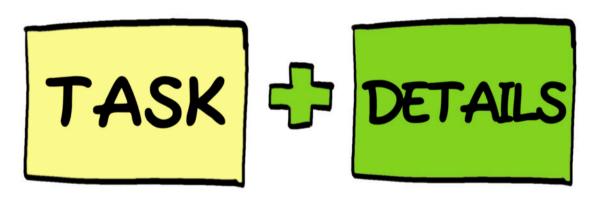
Figure 9 - Factors related to Estimators



5 NEW FUNCTIONALITY

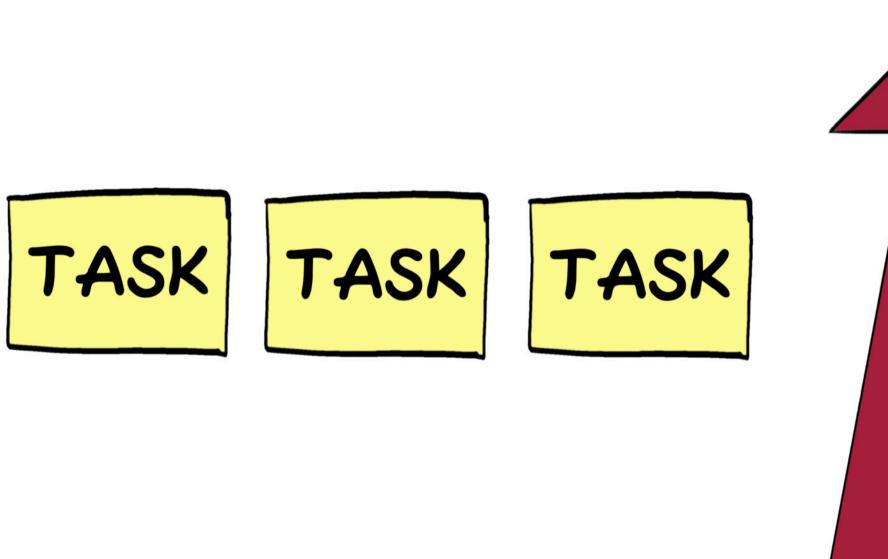


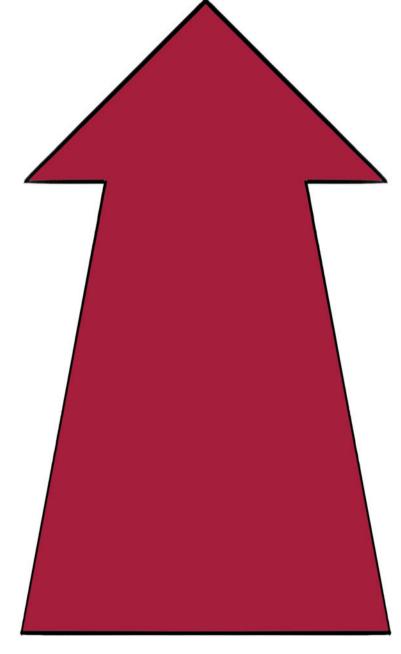






TASK TASK

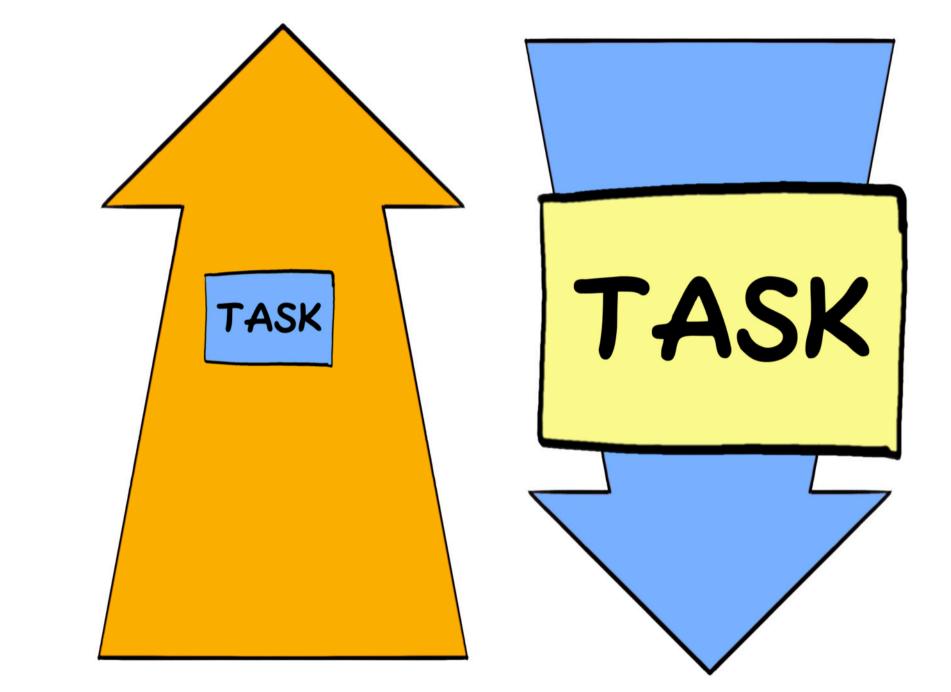






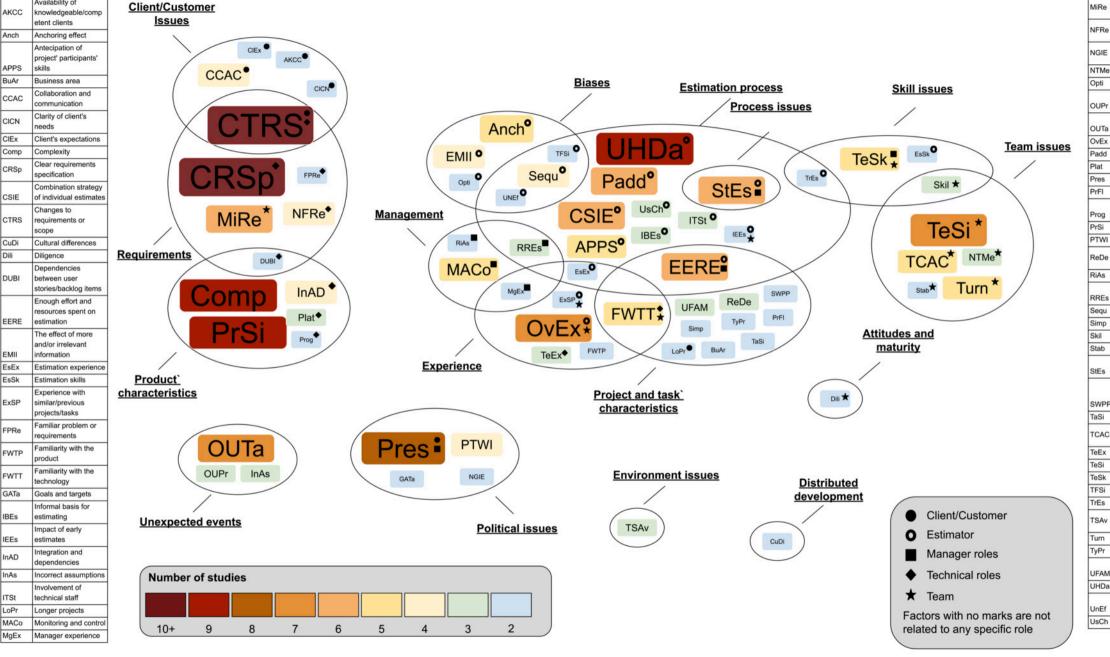






TASK





Availability of

estimates NTMe New team members Optimism Occurrence of unforeseen problems Overlooked and unplanned tasks OvEx Overall experience Padd Padding Plat Platform Pres Pressure Project flexibility language PrSi PTWI Price-to-win issues Resources ReDe dependencies RiAs Risk assessment Reestimation and revision of estimates Sequence effects Simp Simplicity Skil Skill Stab Stability Standards in StEs estimation Similarity with revious SWPP tasks/projects TaSi Task size Collaboration and TCAC communication TeEx Technical experience TeSi Size TeSk Technical skill Time frame size Training in estimation Tool support and TSAv avaliability Turn Turnover Type of project Use of flexible/agile development model Use of historical data Unit effects (Lower granularity time unit UsCh Use of checklists

Misunderstanding of

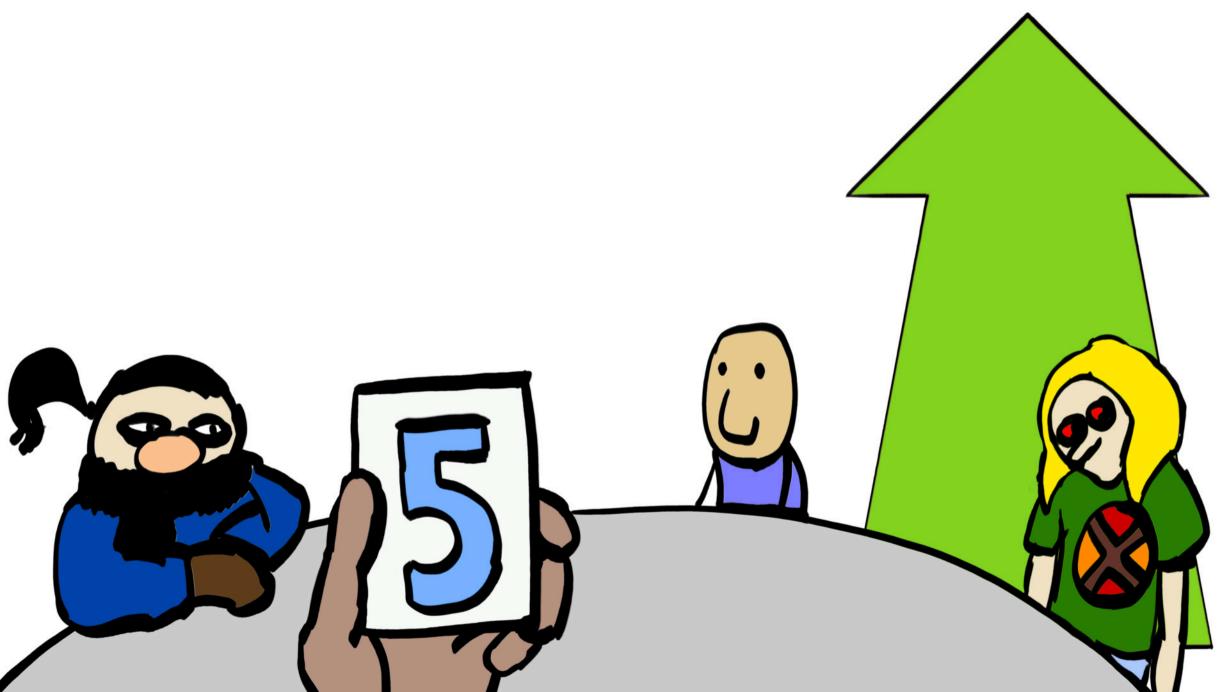
Negotiations games in

requirements

Non-functional

requirements

Figure 7 - The SEXTAMT



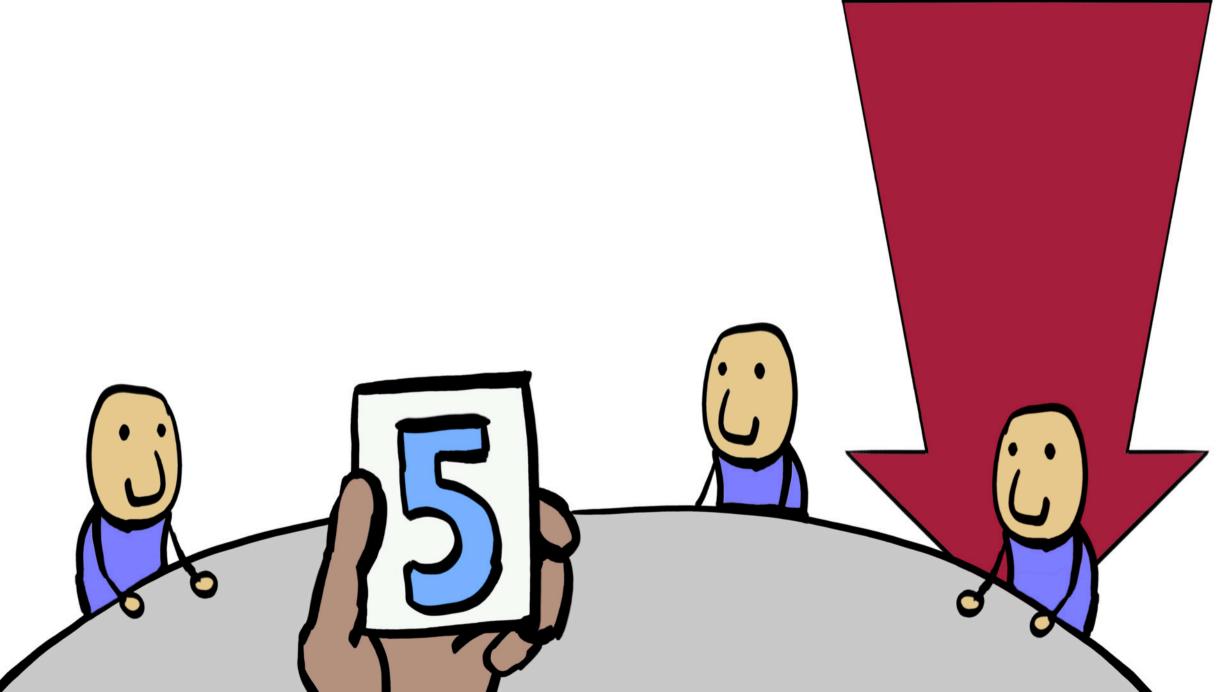
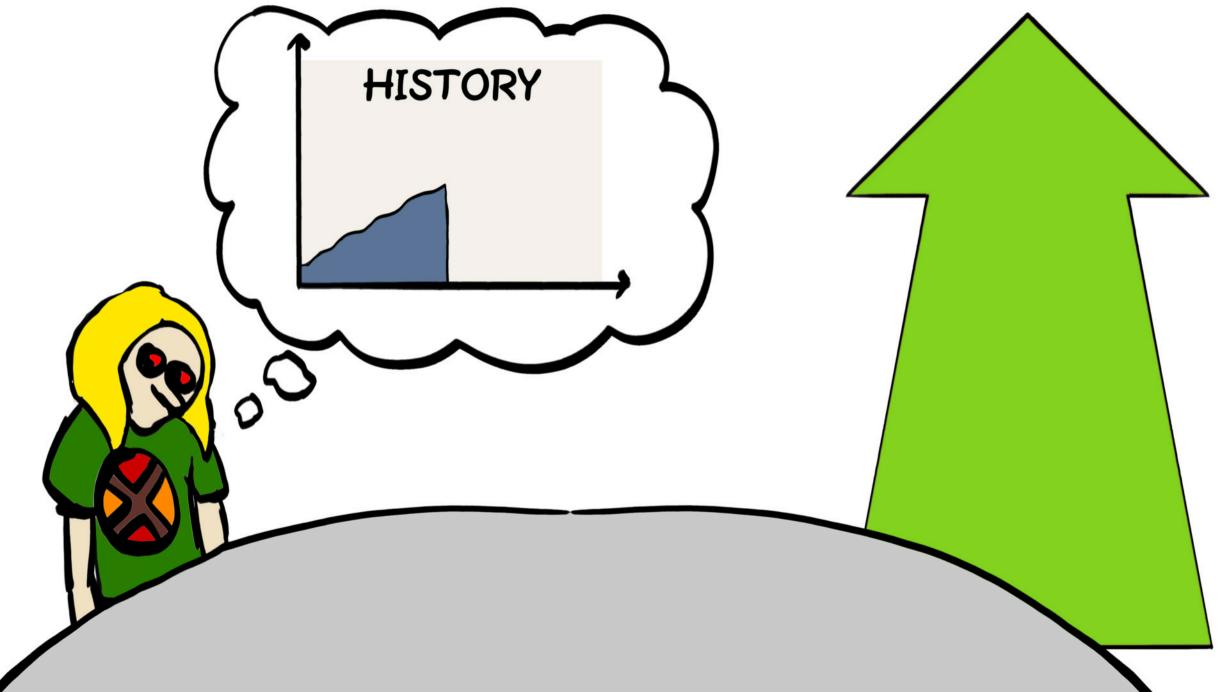
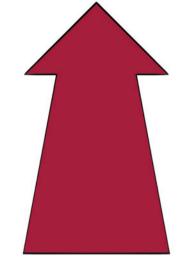


Table A.2: Infoway checklist V3 (prioritized and classified after dynamic validation) Checklist factor Scale No. **Mandatory Part** What is the type of the task? Implementation, testing, research Only an NFR, FR with major NFR constraints, FR The task is implementing a Functional Requirement (FR) or Non-Functional Requirement (NFR) or both? with minor NFR constraints, only FR Rank team's technical competence/skills required to imple-Very good, good, average, below average, lacking 3 ment and test this task How similar is the task to the previously developed tasks? To a great extent, somewhat, very little, not at all 4 Rank team's domain knowledge required to implement this Very good, good, average, below average, lacking task How clear is your understanding of the task? Very good, good, average, below average, need to talk 6 to customer before moving on The implementation of the task requires understanding and/or Yes, not sure, no changing legacy code Does the task involve communication between multiple (sub) 8 Yes, not sure, no systems? **Optional Part** 9 Does the task require an architectural change? Yes, not sure, no 10 Does the team has new member(s)? Yes, no 11 Will the team or some member(s) be working on other prod-Yes, not sure, no ucts/projects/tasks in parallel? 12 Does the task involve accessing and/or modifying several dif-Yes, not sure, no ferent elements/tables in the persistence/DB layer? Is the task size suitable to fit in the planned sprint? 13 Yes, not sure, no Rank team's recent productivity Very good, good, average, below average, lacking 14 Based on the above characterizations, most likely effort estimate for this task is: ——— hours



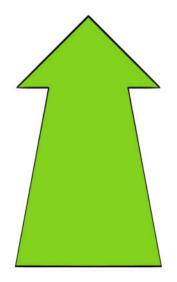




TASK

TASK

TASK



I CONTEXT II STORY POINTS

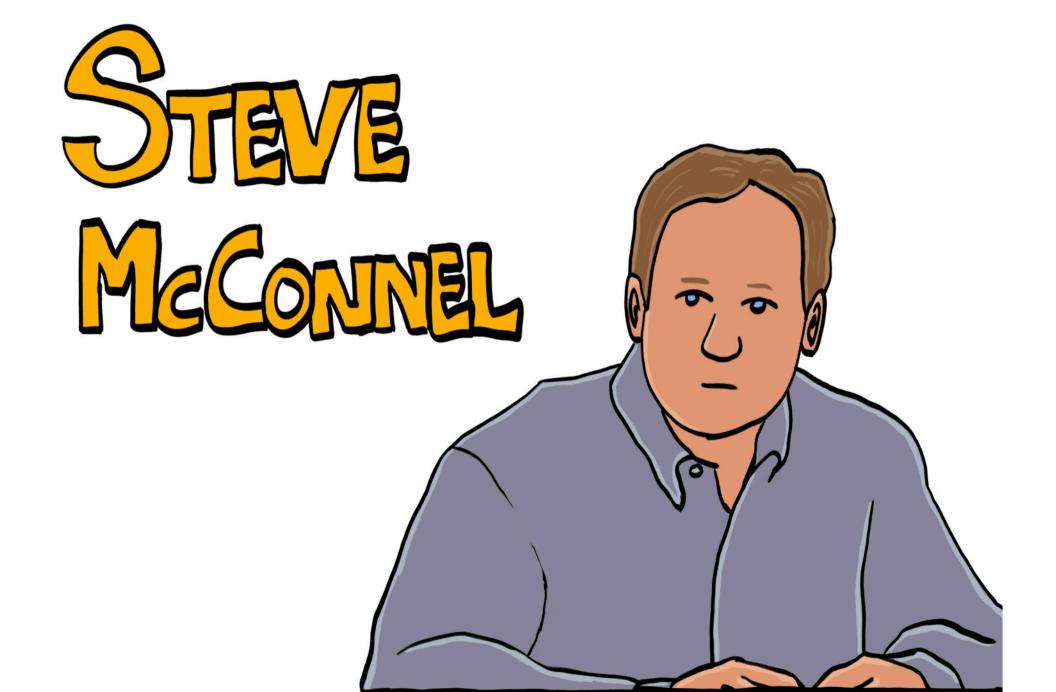
(III) NOESTIMATES TECHNIQUES

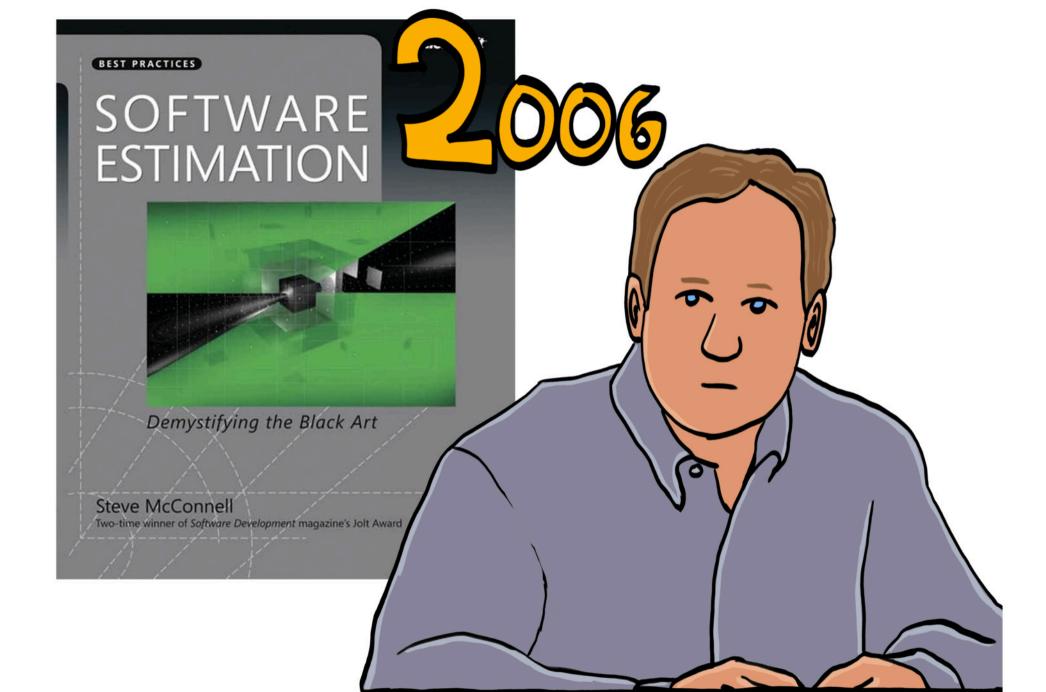
IV

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VI

VII



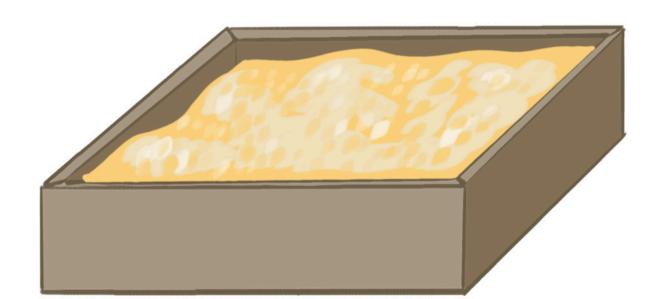


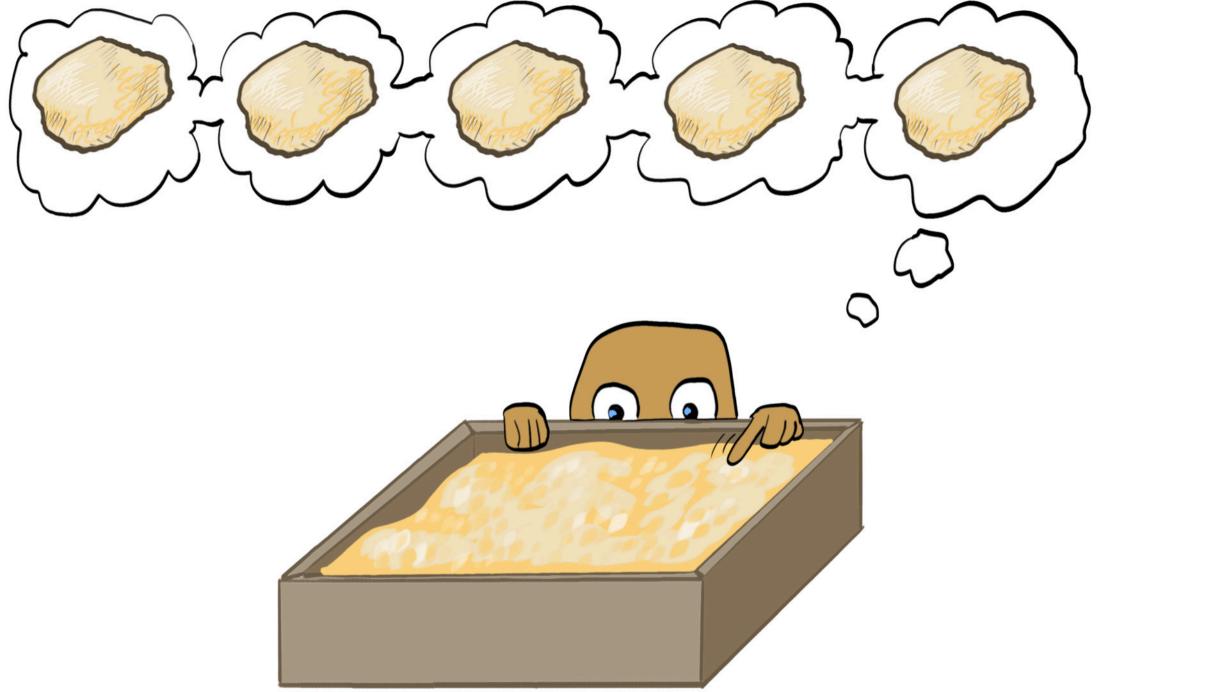
SOFTWARE ESTIMATION : DEMYSTIFYING THE BLACK ART / S. MCCONNELL.

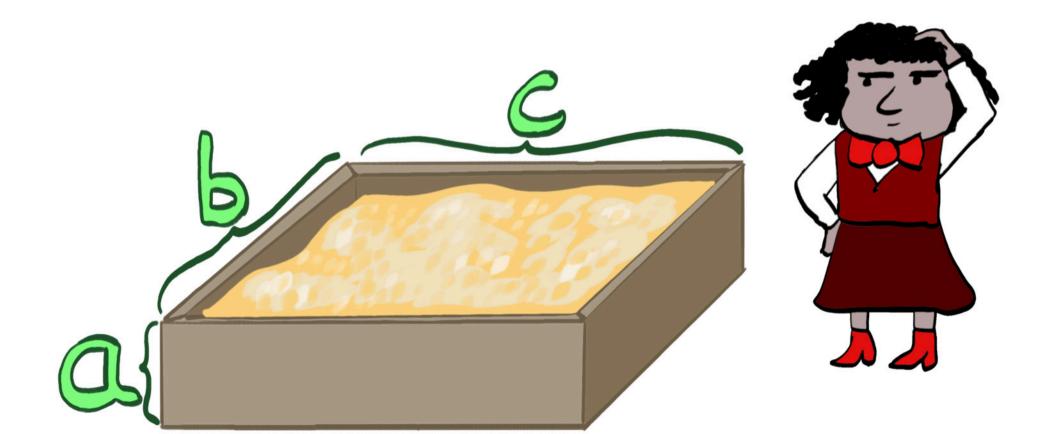


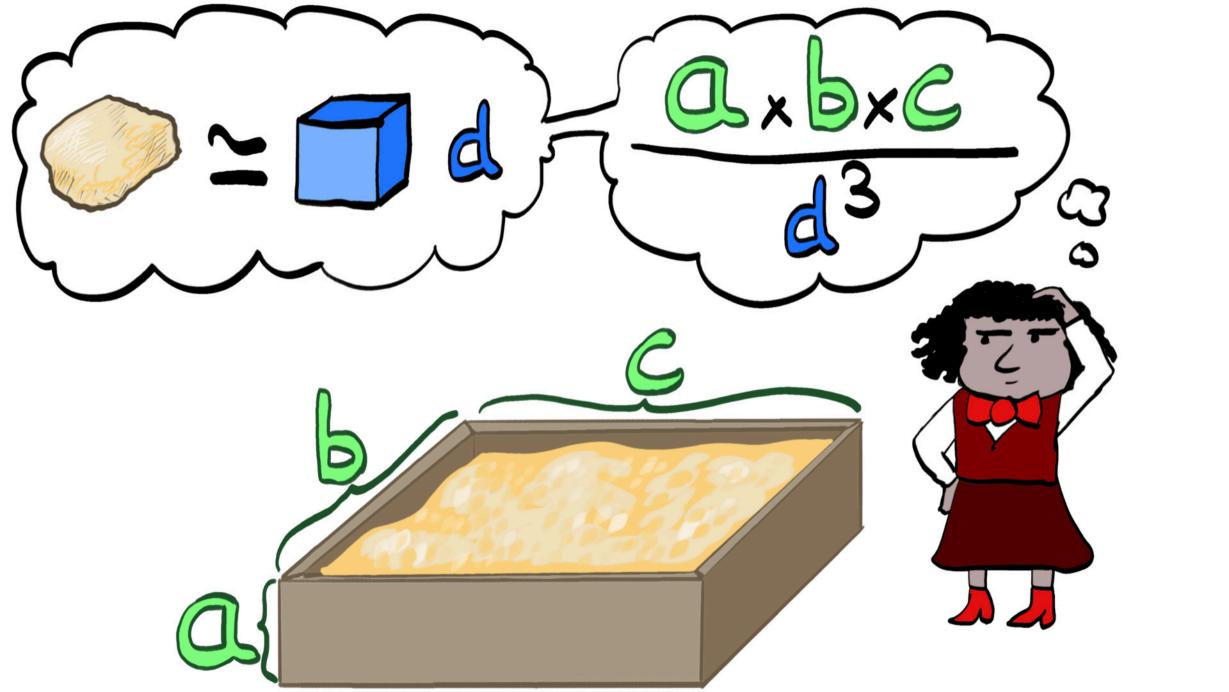
Mcconnell, Steve









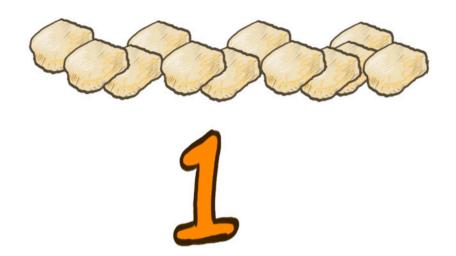


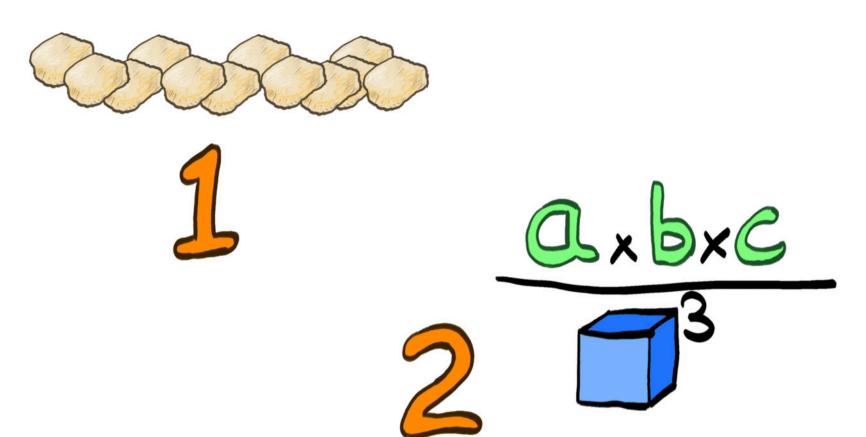


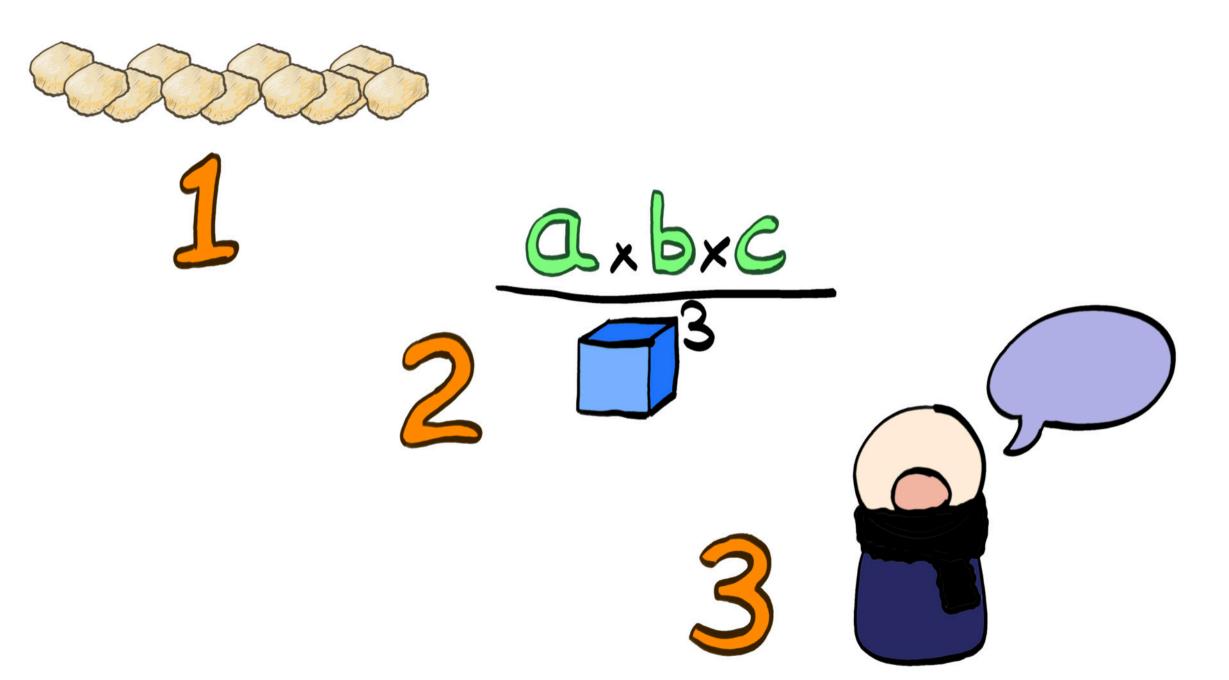








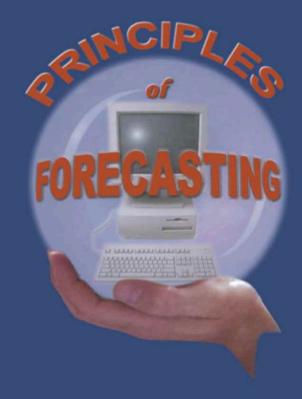




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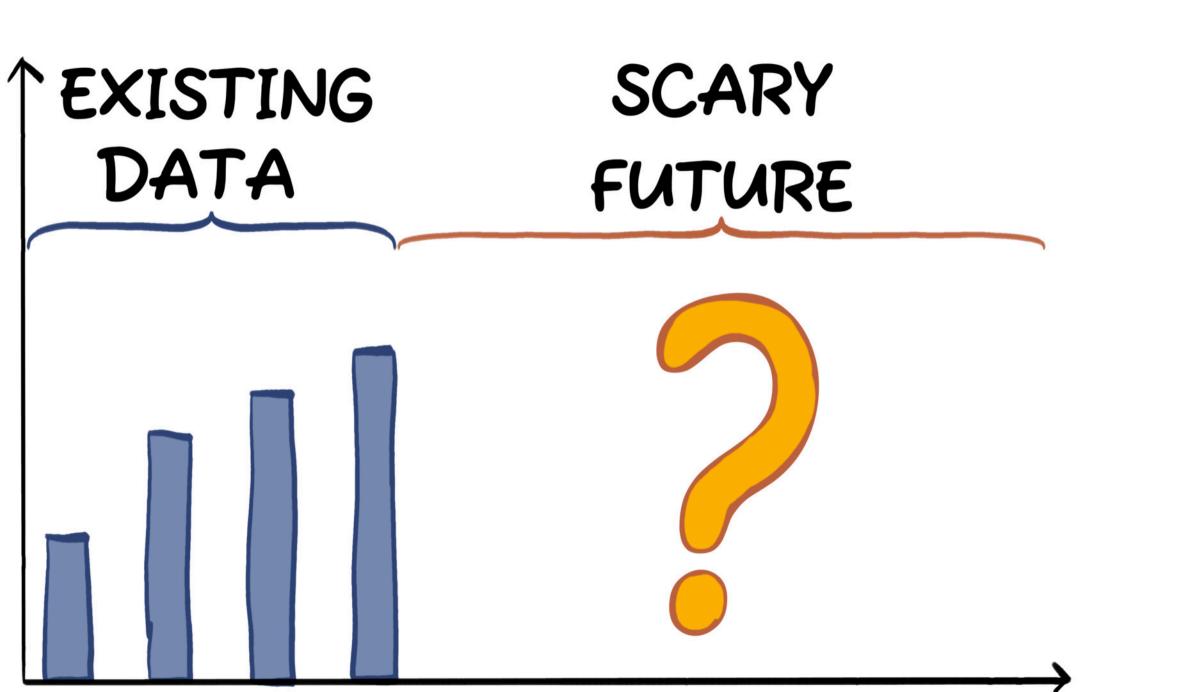
J. Scott Armstrong

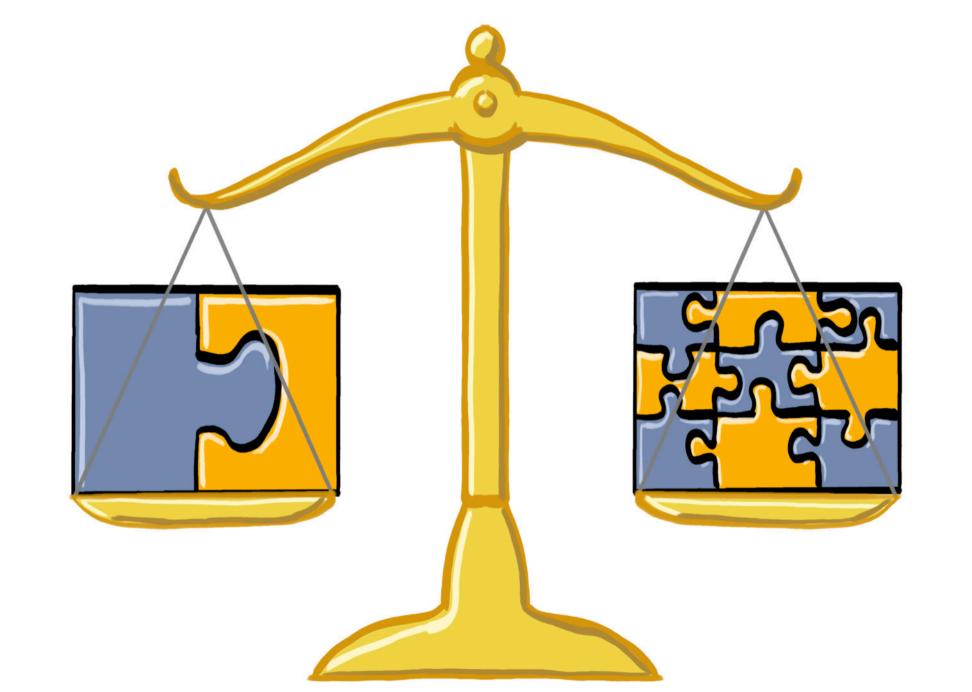


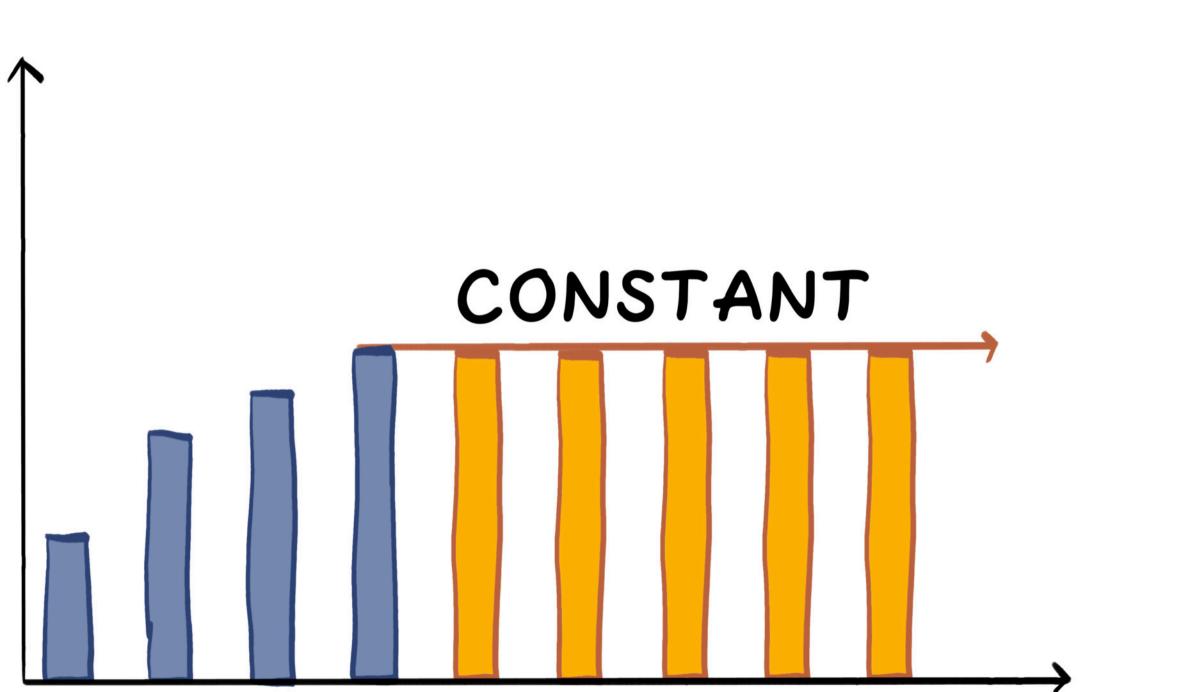
SIMPLE VERSUS COMPLEX FORECASTING: THE EVIDENCE (SIMPLE-FORECASTING.COM)

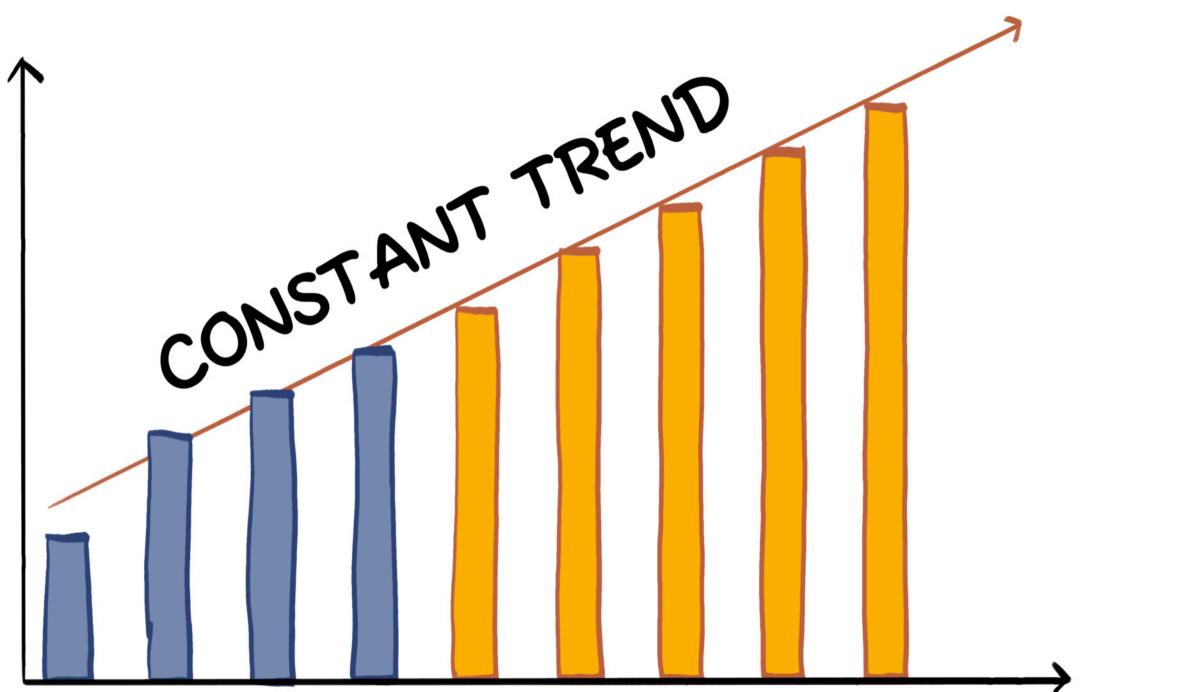


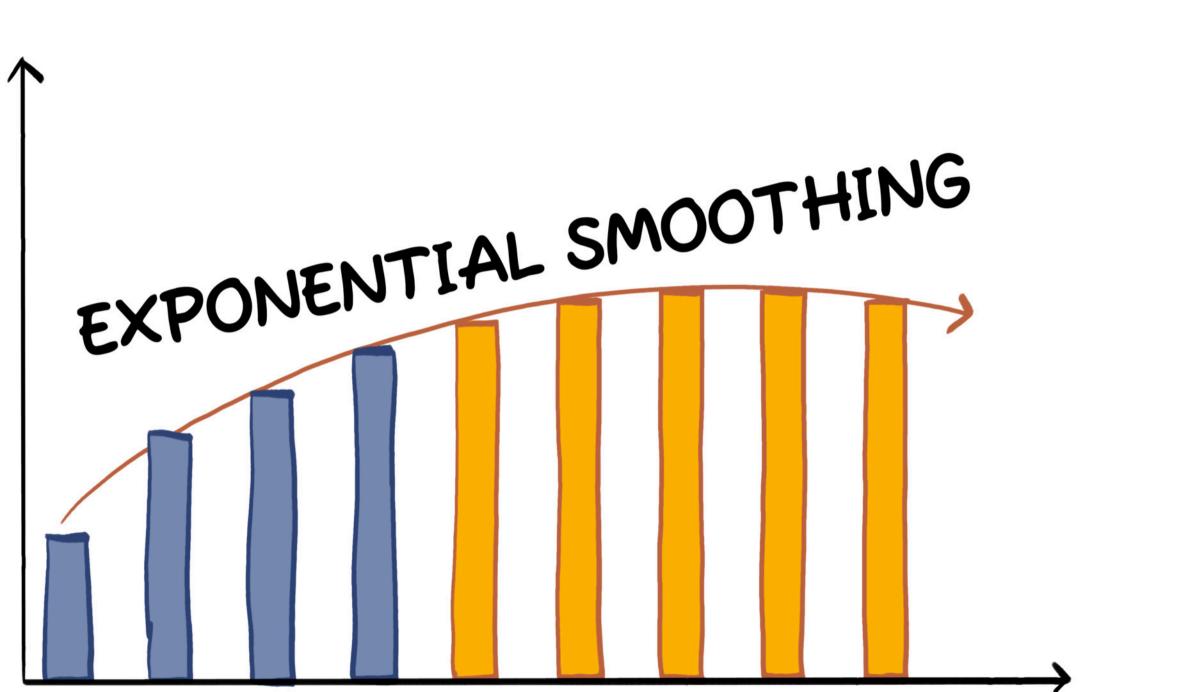
Green, Kesten and Armstrong, J.











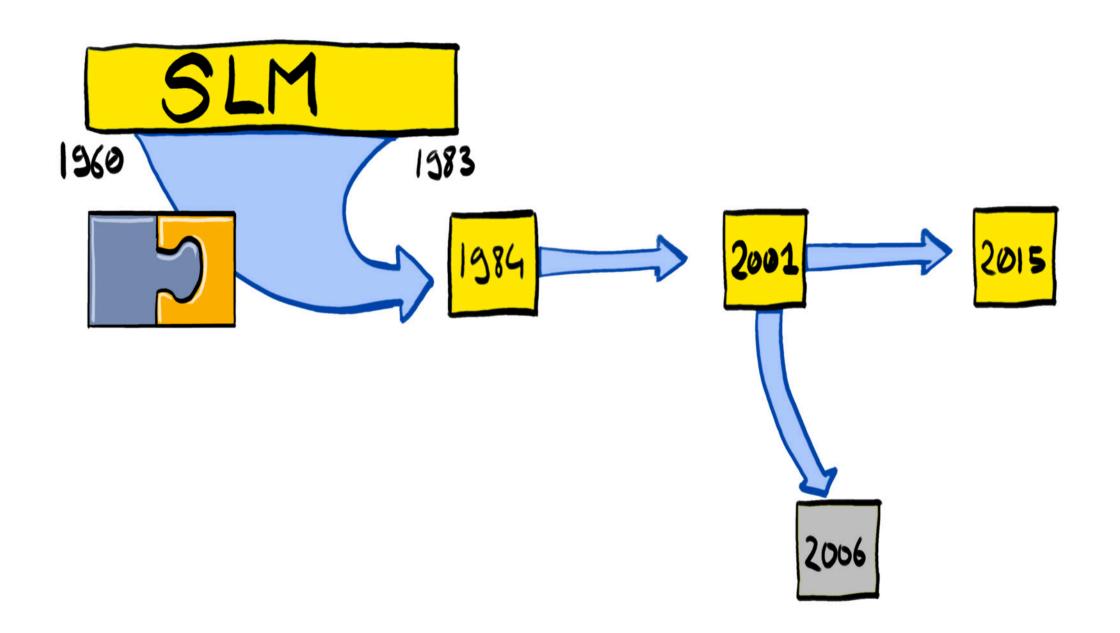
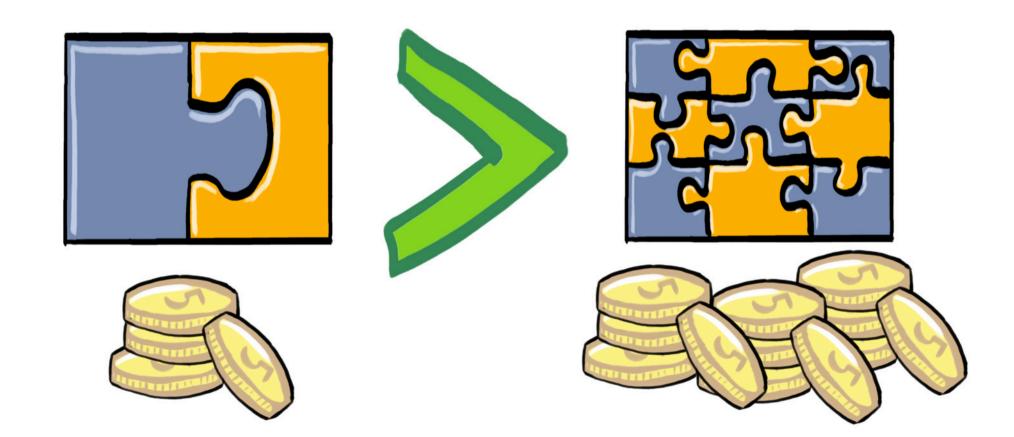


Table
Summary of evidence on accuracy of forecasts from complex vs. simple methods
------ Number of Comparisons ------

	Number of Comparisons							
Method type	Total papers	Total compar- isons	Simple better or <u>similar</u>	Effect size	Error increase vs simple (%)			
Judgmental	4	4	4	4	28.2			
Extrapolative	17	62	51	12	27.5			
Causal	8	23	19	5	25.3			
Combined	3	8	7	4	23.9			
All method types	32	97	81	25				
Weighted average*					26.7			

^{*}Weighted by total papers





PRINCIPLES OF FORECASTING: A HANDBOOK FOR RESEARCHERS AND



Armstrong, J.

2001 - Technological Forecasting and Social Change - TECHNOL FORECAST SOC CHANGE

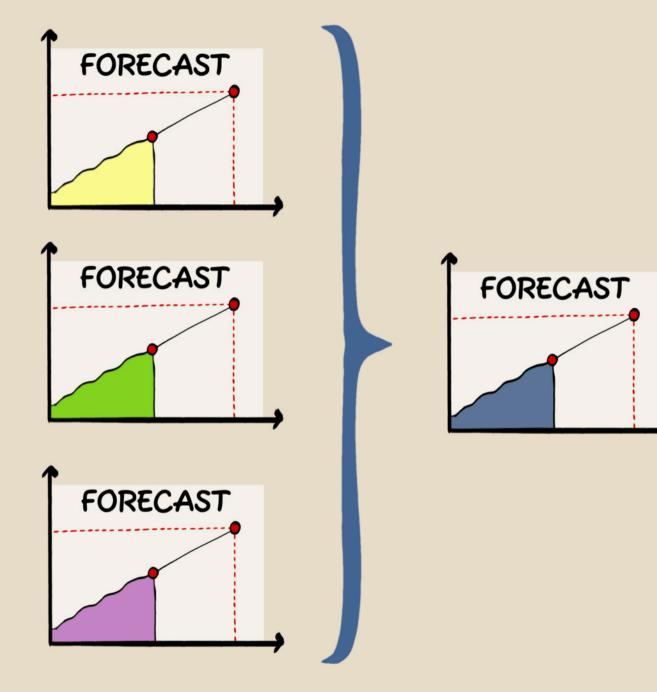


Exhibit 1. Error reductions from combining ex ante forecasts

Study	Methods	Compo- nents	Criterion	Data	Situation	Validation forecasts	Forecast horizon	Percent error reduction
Levine (1960)	intentions	2	MAPE	annual	capital expenditures	6	1	18.0
Okun (1960)		2			housing starts	6	1	7.0
Landefeld & Seskin (1986)		2	MAE		plant & equipment	11	1	20.0
Armstrong et al. (2000)		4	RAE		consumer products	65	varied	5.5
Winkler & Poses (1993)	expert	4	Brier	cross-section	survival of patients	231	varied	12.2
Thorndike (1938)		4 to 6	% wrong		knowledge questions	30	varied	6.6
Makridakis et al. (1993)		5	MAPE	monthly	economic time series	322	1 – 14	19.0
Richards & Fraser (1977)	*	5	*	annual	company earnings	213	1	8.1
Batchelor & Dua (1995)		10	MSE	*	macroeconomic	40	1	16.4
Kaplan et al. (1950)		26	% wrong	cross-section	technology events	16	varied	13.0
Zarnowitz (1984)		79	RMSE	quarterly	macroeconomic	288	1	10.0
Sanders & Ritzman (1989)	extrapolation	3	MAPE	daily	public warehouse	260	1	15.1
Makridakis & Winkler (1983)		5	*	monthly	economic time series	617	18	24.2
Makridakis et al. (1993)		5				322	1 – 14	4.3
Lobo (1992)		5		quarterly	company earnings	6,560	1-4	13.6
Schnaars (1986)		7	5	annual	consumer products	1,412	1-5	20.0
Landefeld & Seskin (1986)	econometric	2	MAE	annual	plant & equipment	7	1	21.0
Clemen & Winkler (1986)		4	MAD	quarterly	GNP (real & nominal)	45	1 – 4	3.4
Shamseldin et al. (1997)		5	MAPE	annual	rainfall runoff	22	1	9.4
Lobo (1992)	expert/extrap	2	MAPE	annual	company earnings	6,560	1 – 4	11.0
Lawrence et al. (1986)		3		monthly	economic time series	1,224	1 – 18	10.7
Sanders & Ritzman (1989)		3		daily	public warehouse	260	1	15.5
Lobo & Nair (1990)		4	*	annual	company earnings	768	1	6.4
Landefeld & Seskin (1986)	inten- tions/econ	2	MAE	annual	plant & equipment	11	1	11.5
Vandome (1963)	extrap/econ	2	MAPE	quarterly	macroeconomic	20	1	10.1
Armstrong (1985)	*	2		annual	photo sales by country	17	6	4.2
Weinberg (1986)	expert/econ	2		cross-sectio	performing arts	15	varied	12.5
Bessler & Brandt (1981)	experrt/ extrap/ econ	3	*	quarterly	cattle & chicken prices	48	1	13.6
Fildes (1991)		3	MAE	annual	construction	72	1 & 2	8.0
Brandt & Bessler (1983)		6	MAPE	quarterly	hog prices	24	- 1	23.5
						Unweighte	d avarana	12.5

HINOESTIMOTES

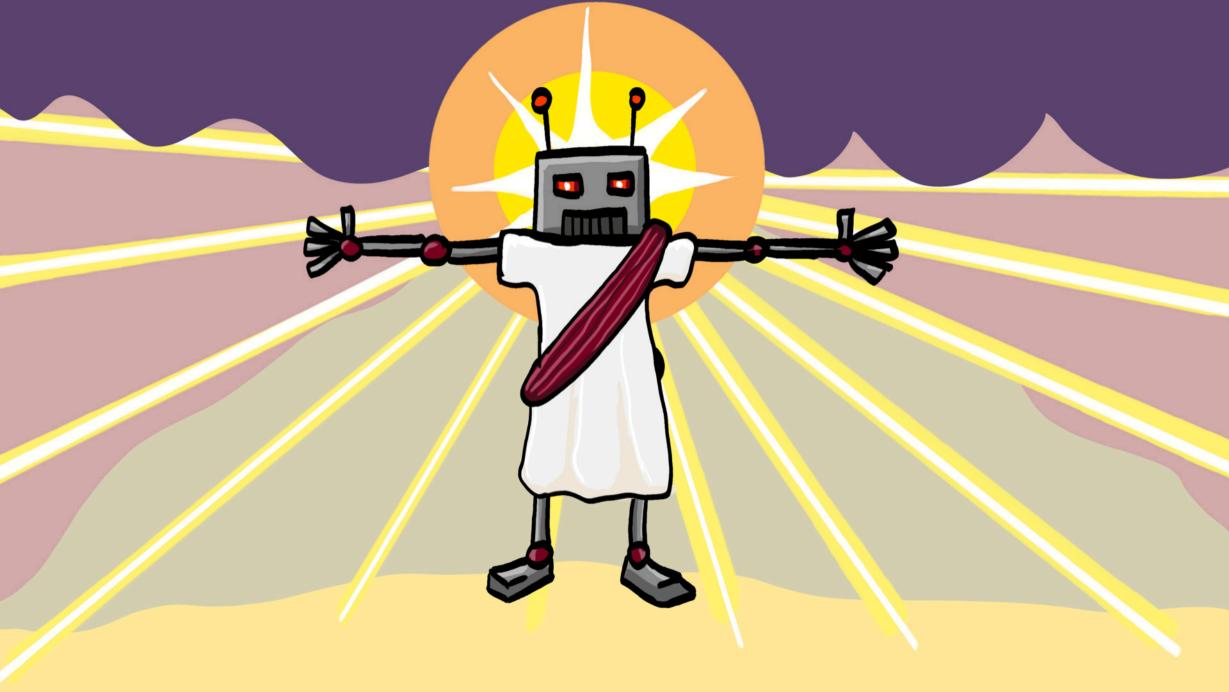
SIMPLE
METHODS



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VII

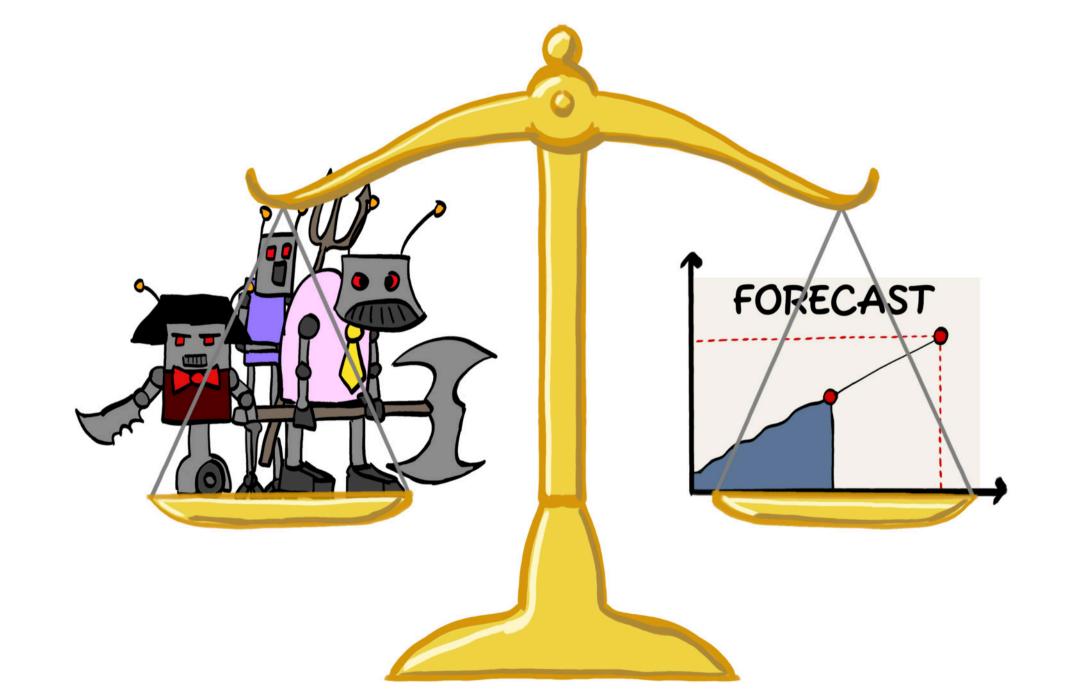


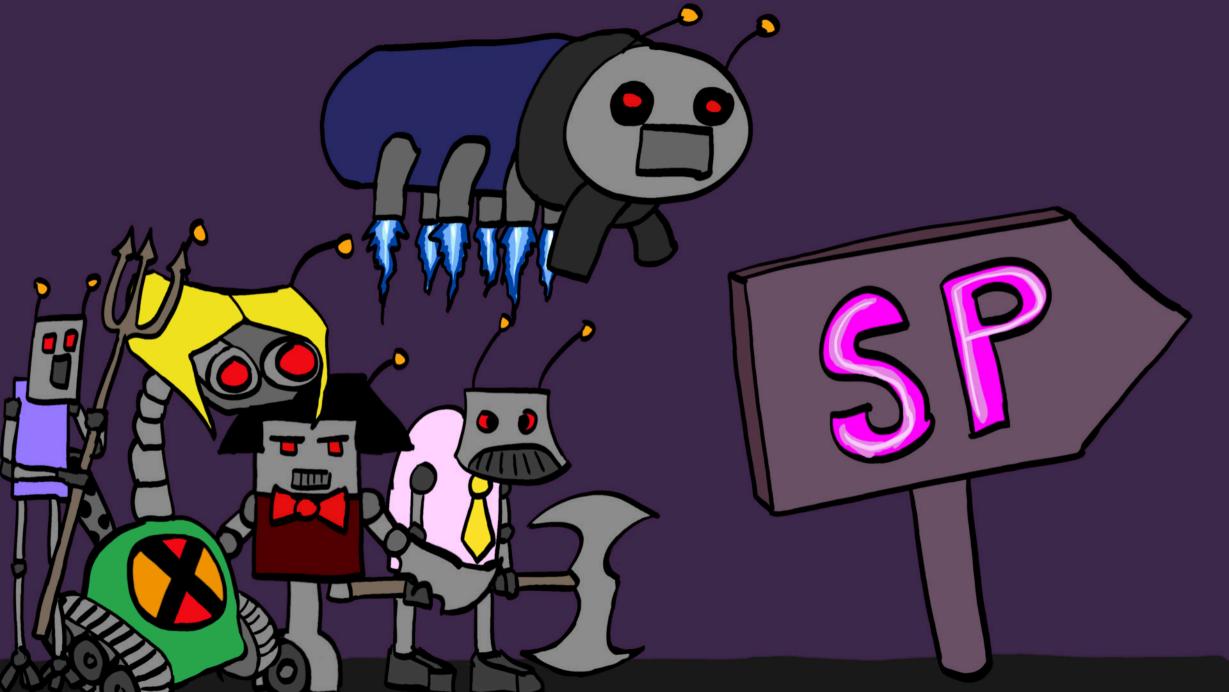
AGILE EFFORT ESTIMATION: HAVE WE SOLVED THE PROBLEM YET? INSIGHTS FROM A REPLICATION STUDY

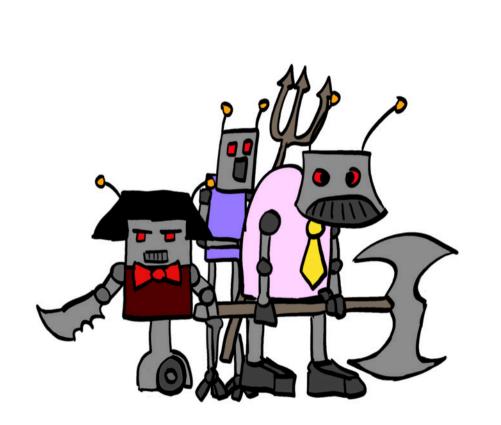


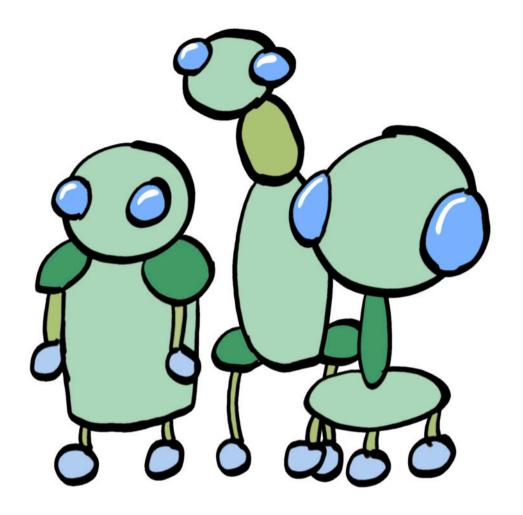
Tawosi, Vali and Moussa, Rebecca and Sarro, Federica

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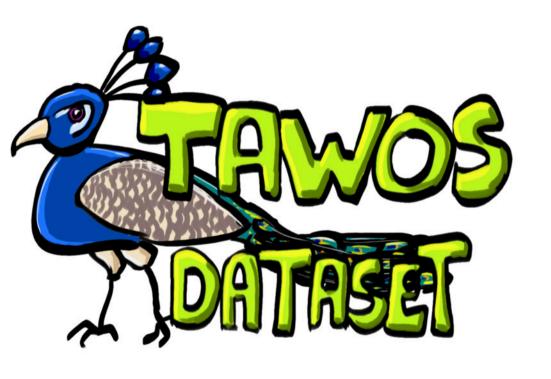


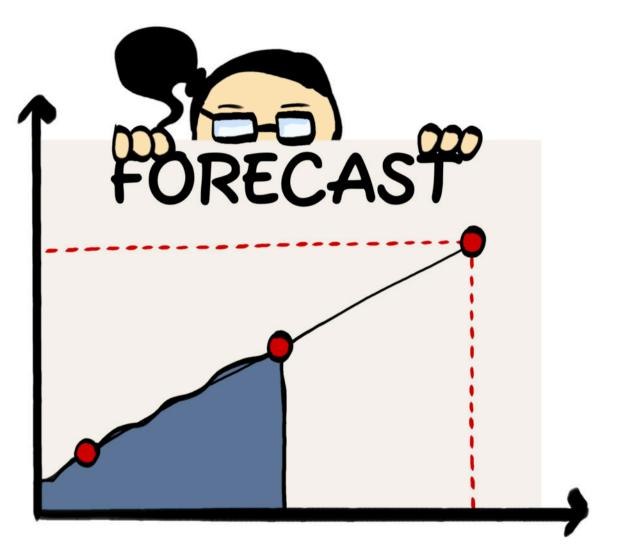


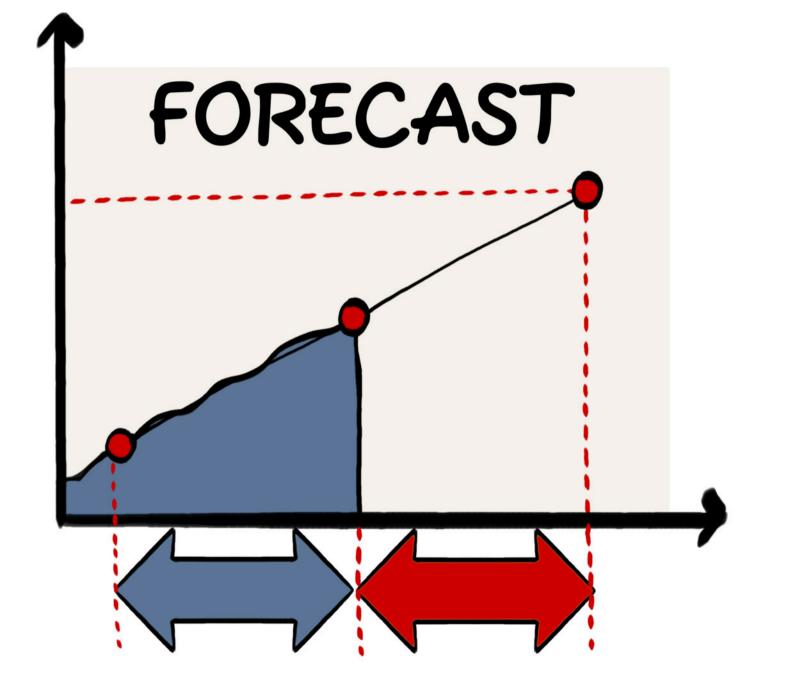


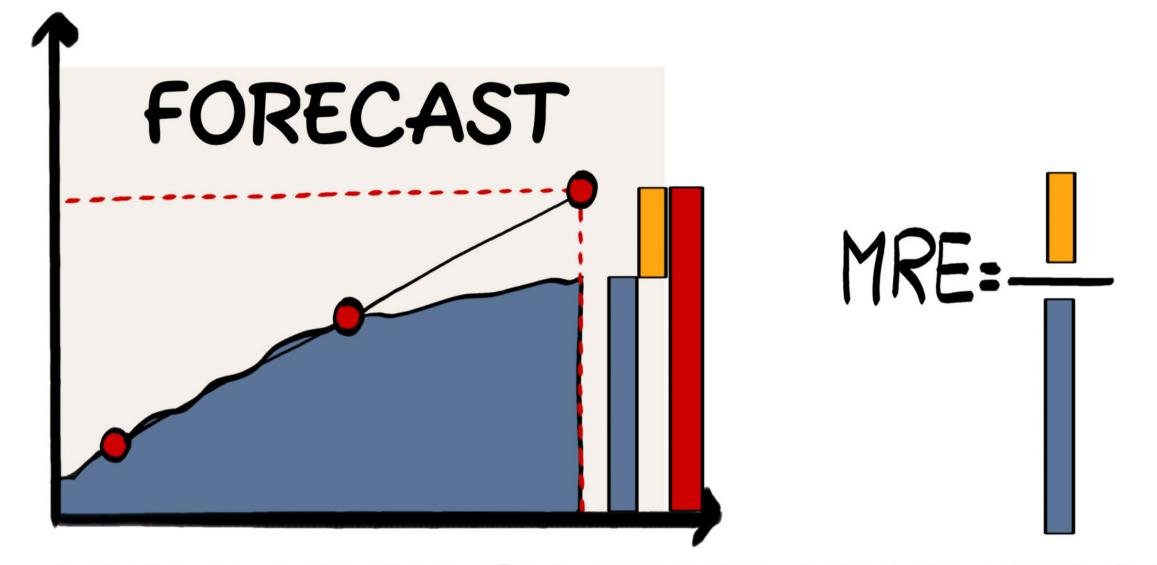


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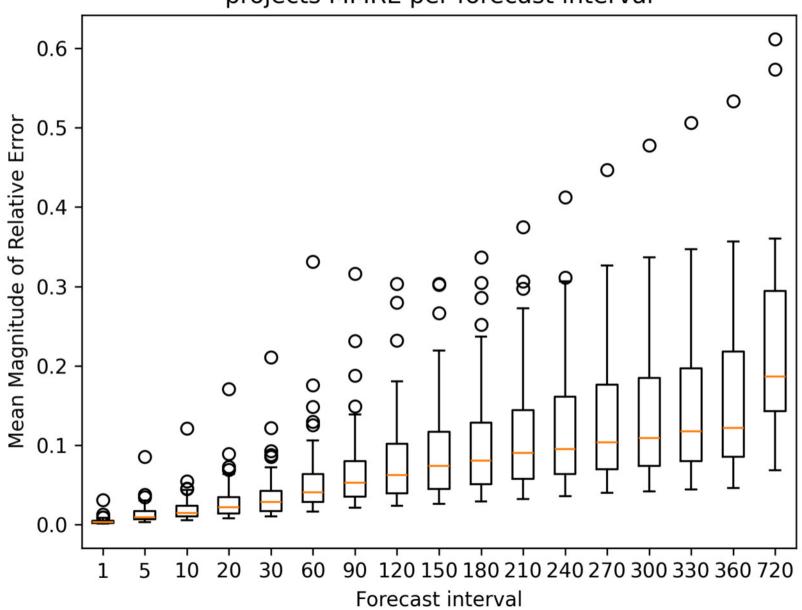




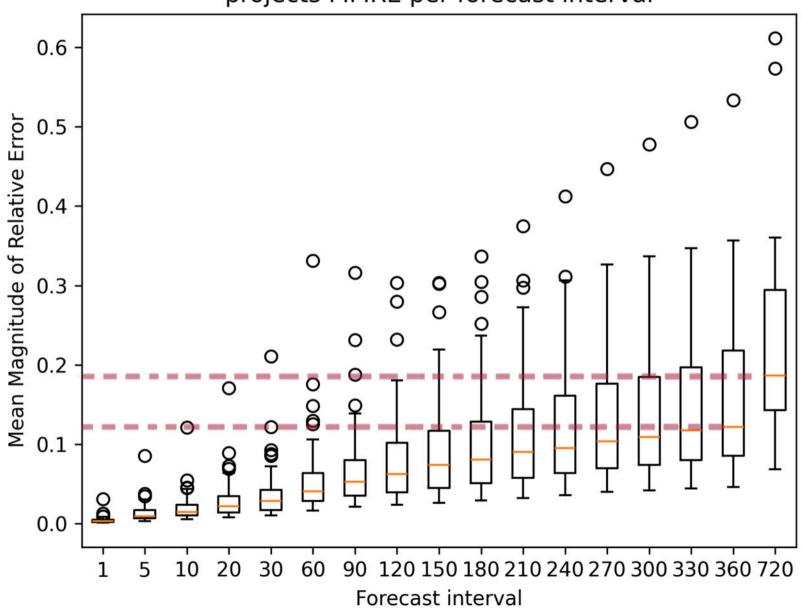


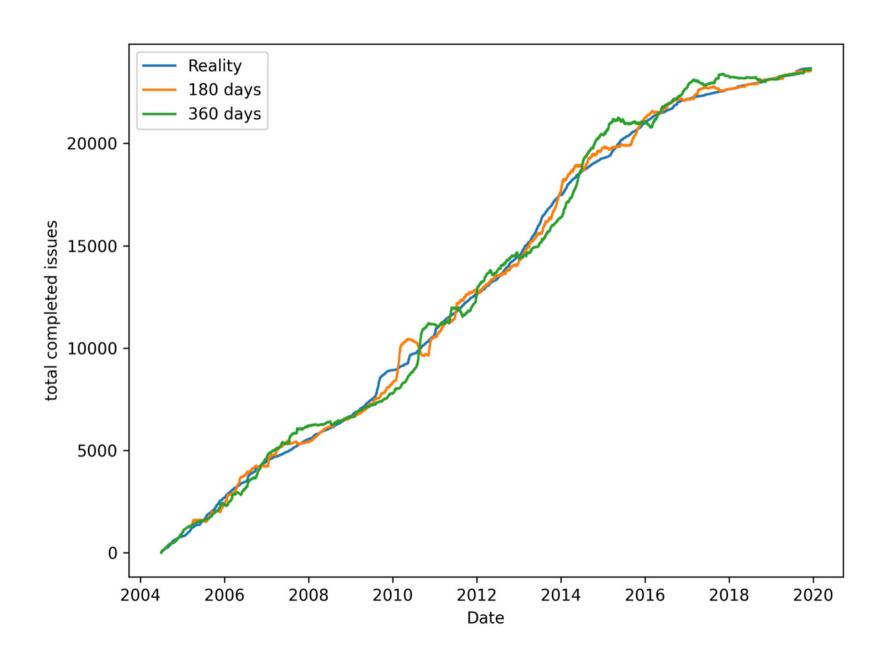
MRE: MAGNITUDE OF RELATIVE ERROR

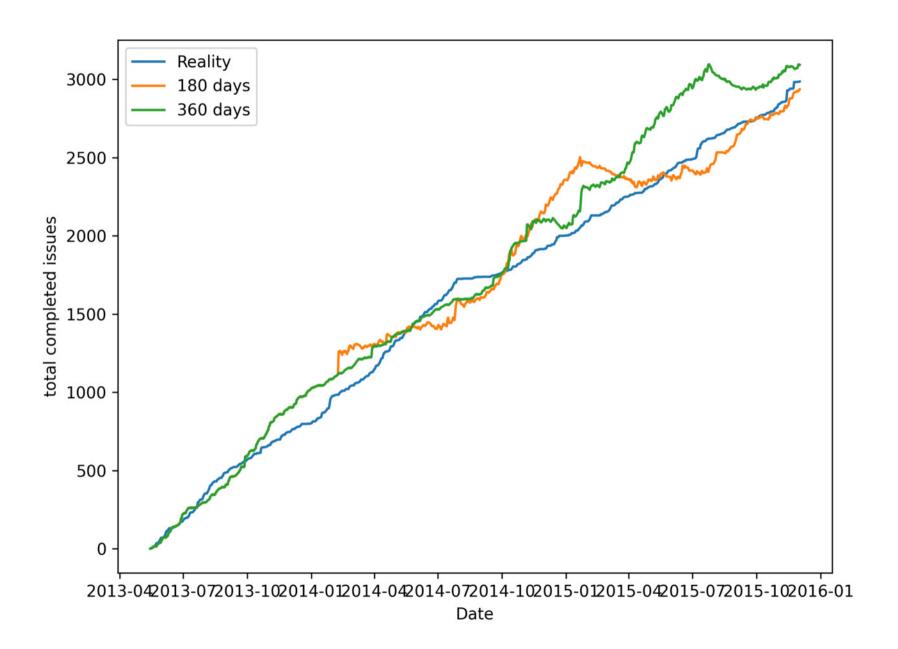
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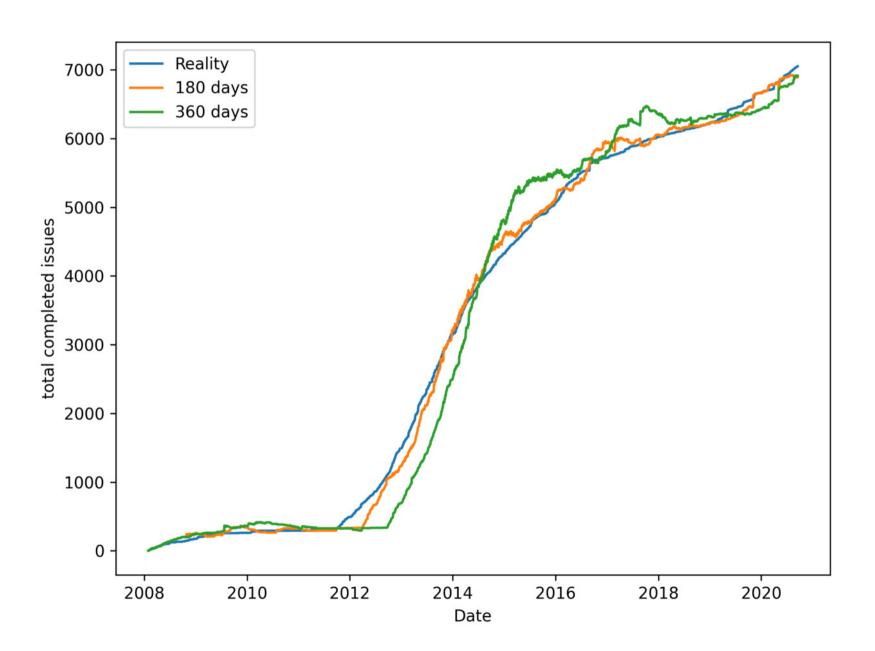


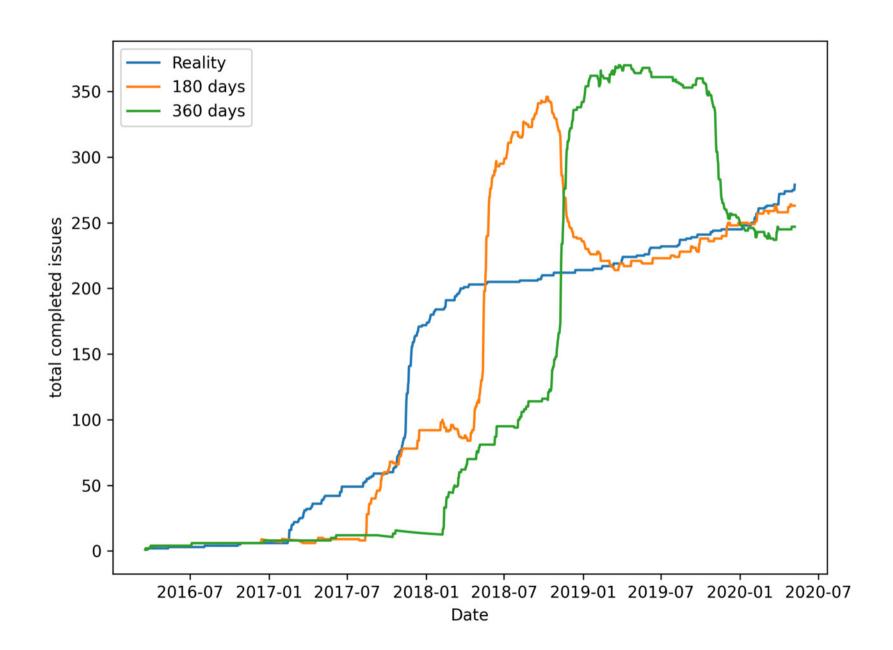
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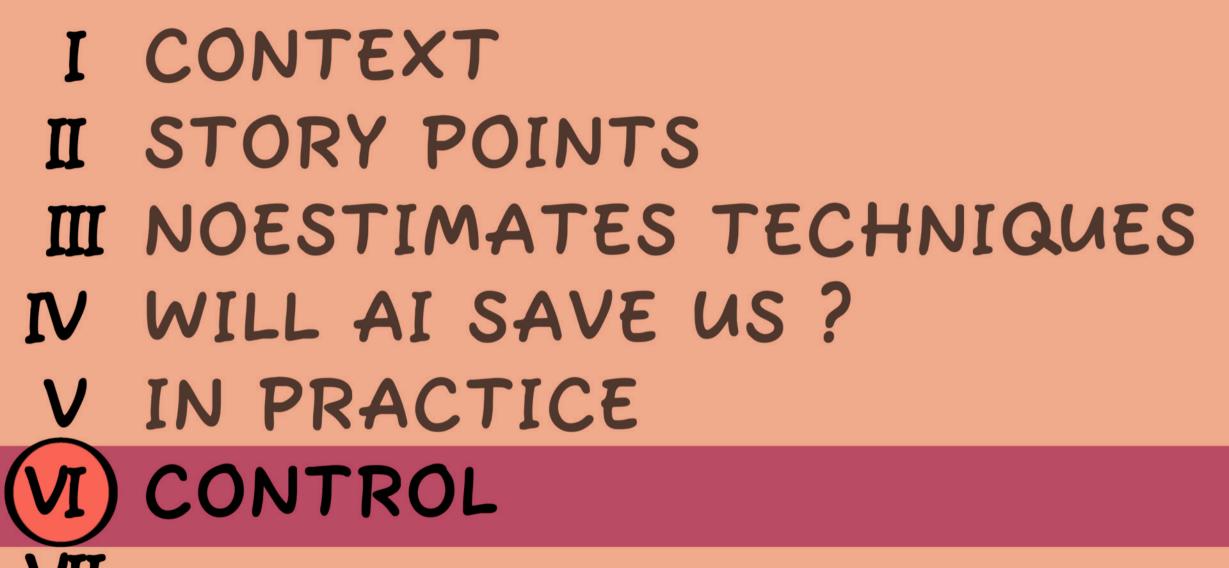


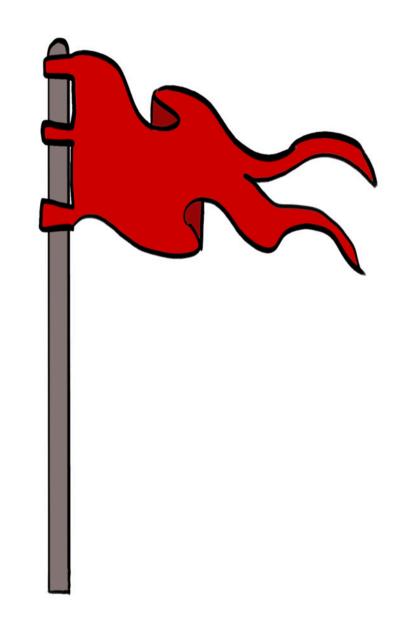


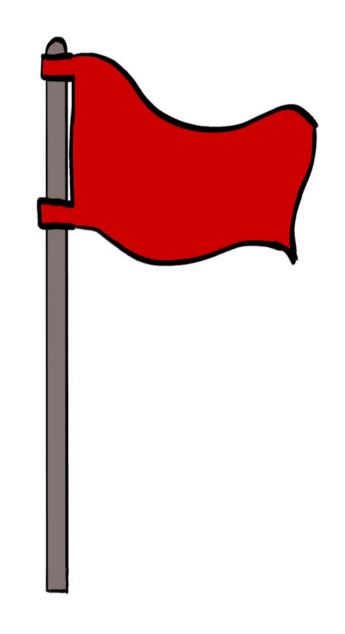




















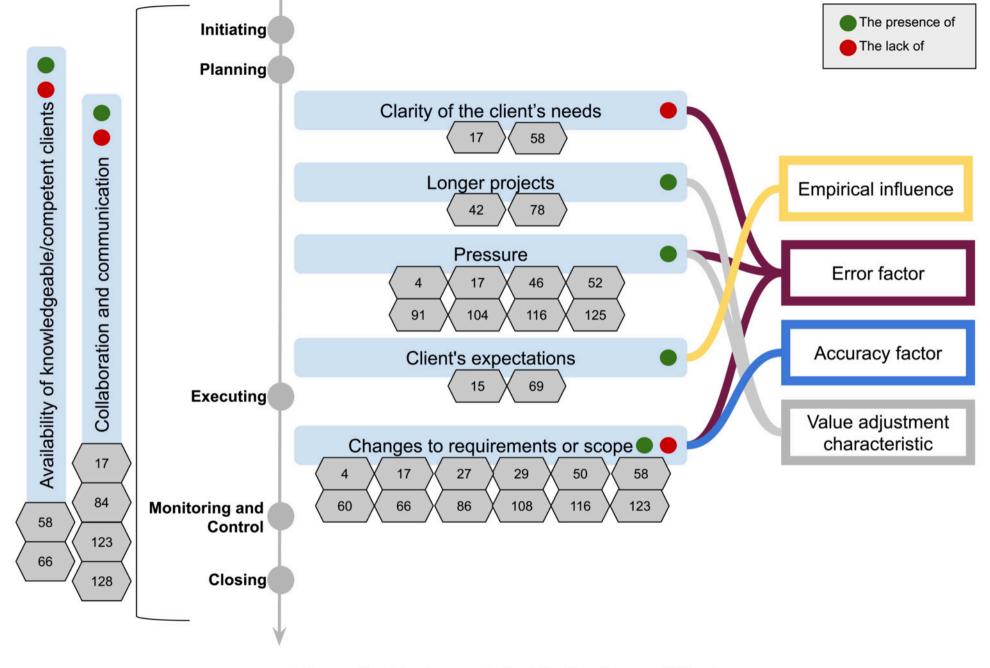


Figure 8 - Factors related to Customer/Client

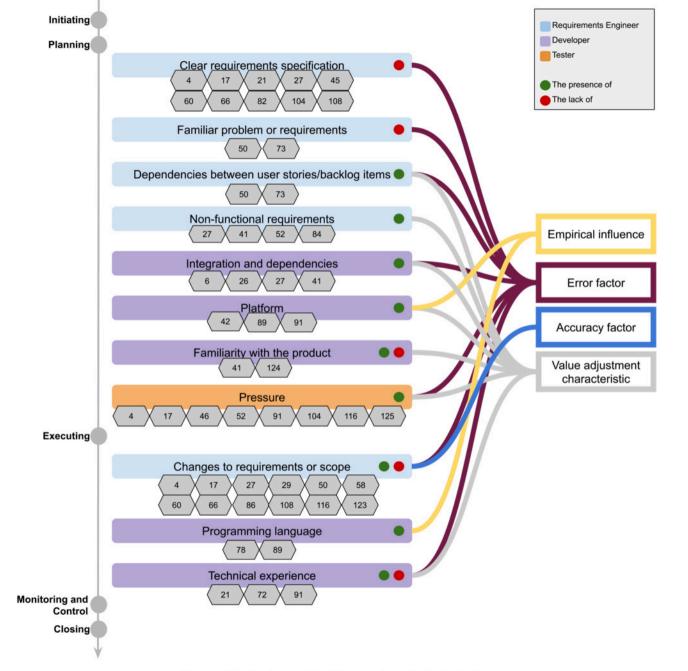


Figure 11 - Factors related to people in technical roles



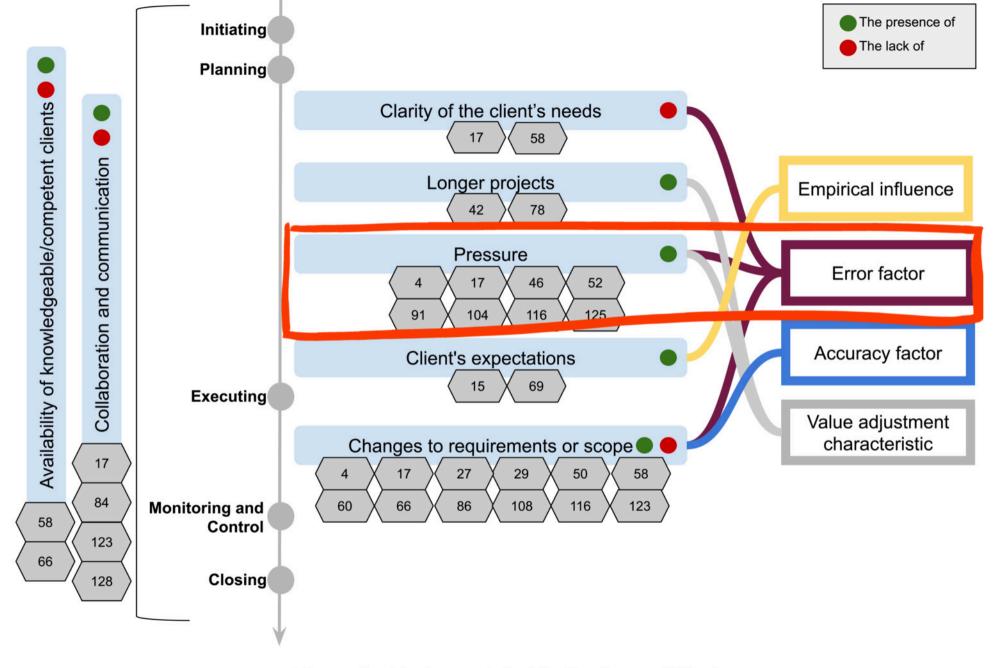


Figure 8 - Factors related to Customer/Client

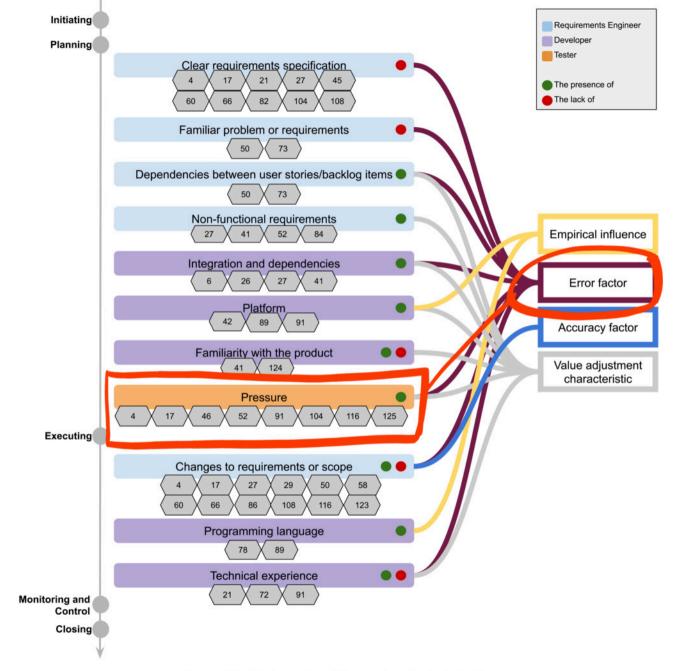
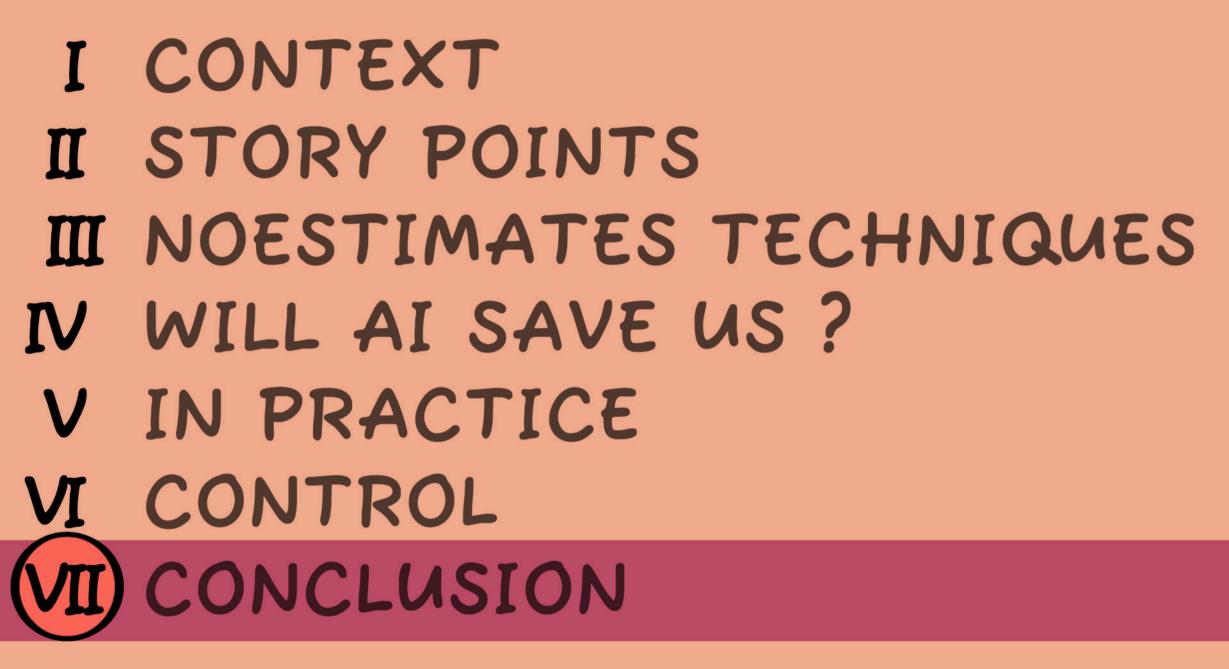
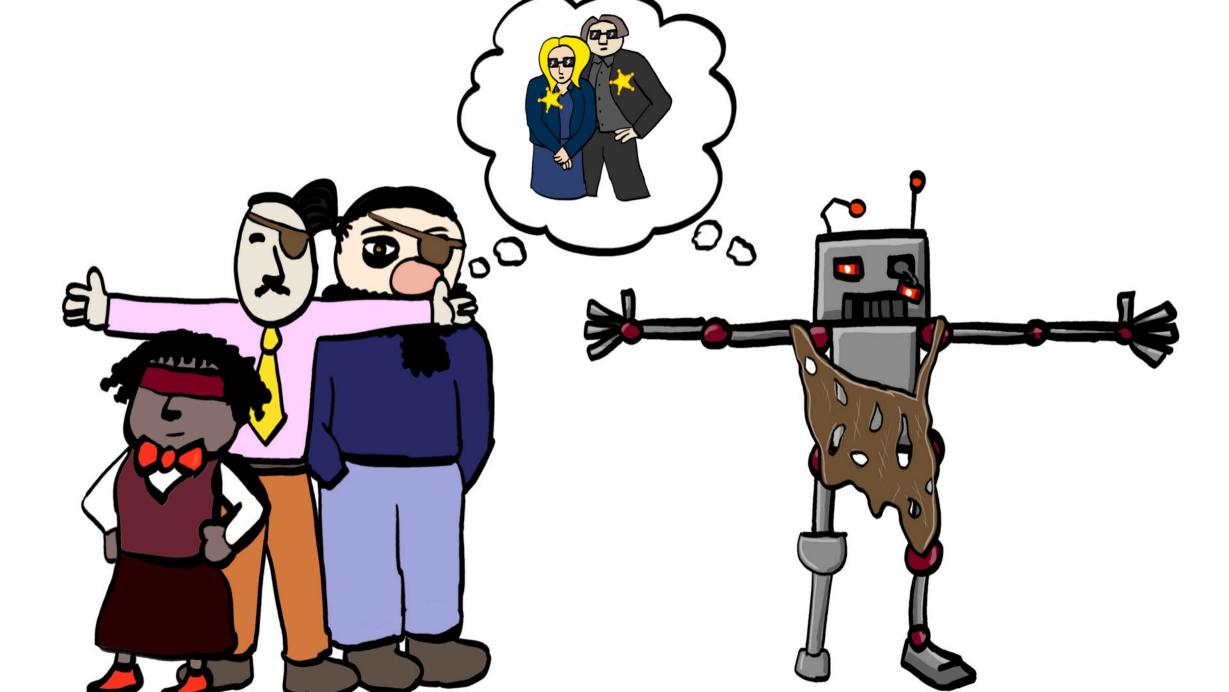
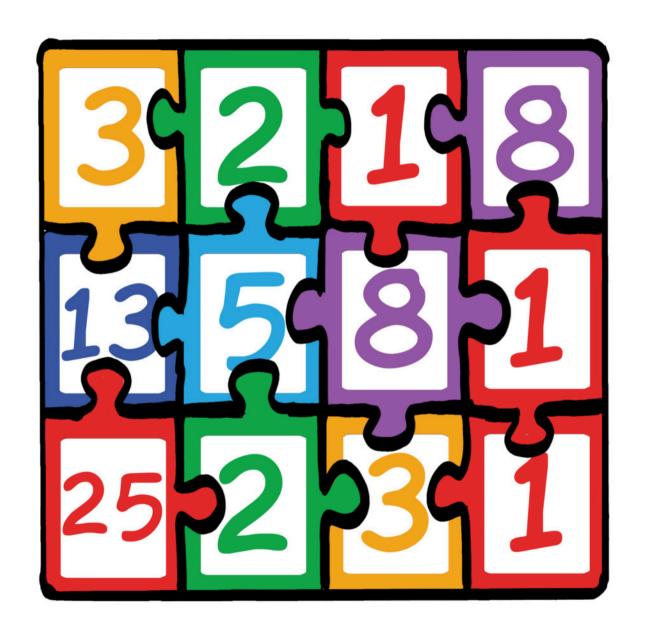
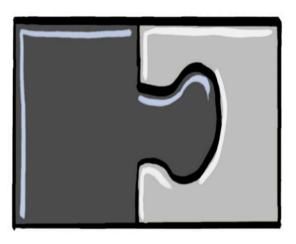


Figure 11 - Factors related to people in technical roles

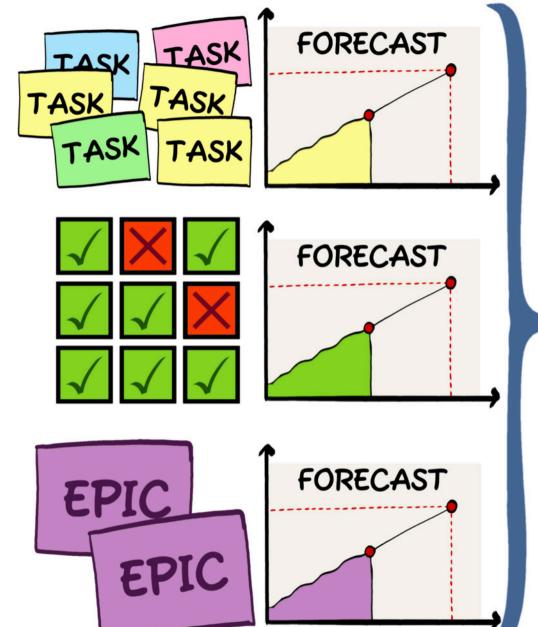


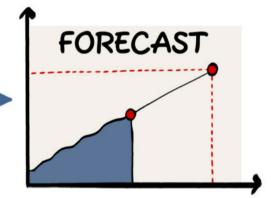








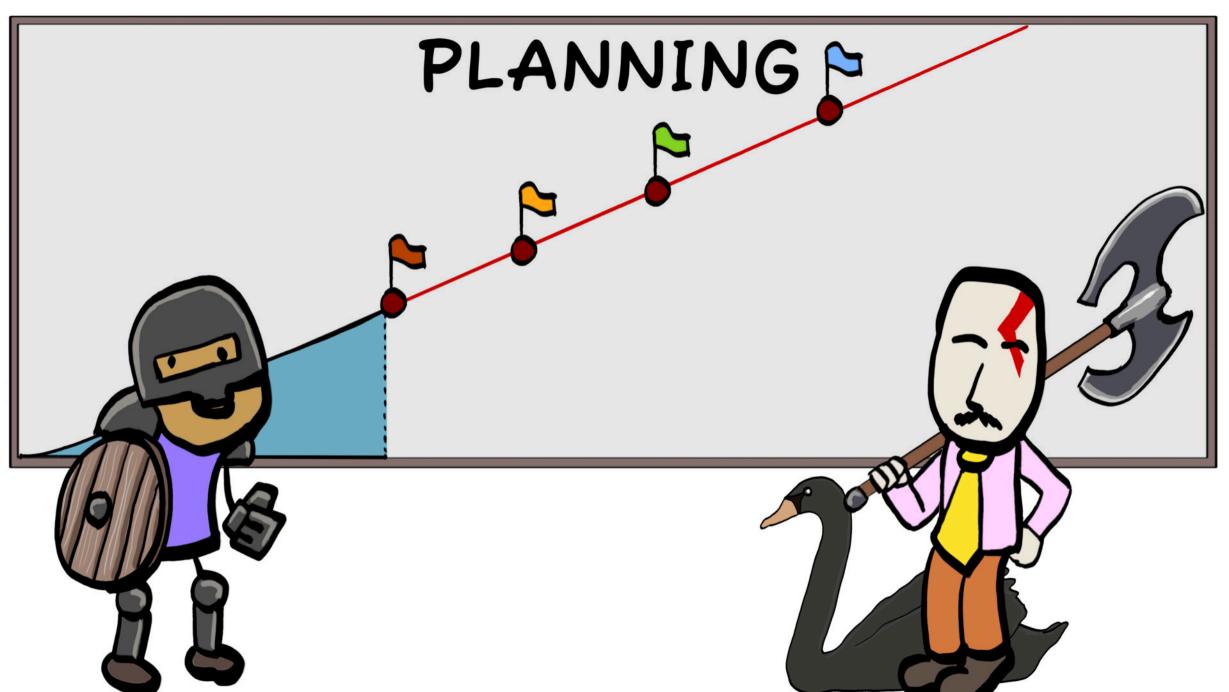


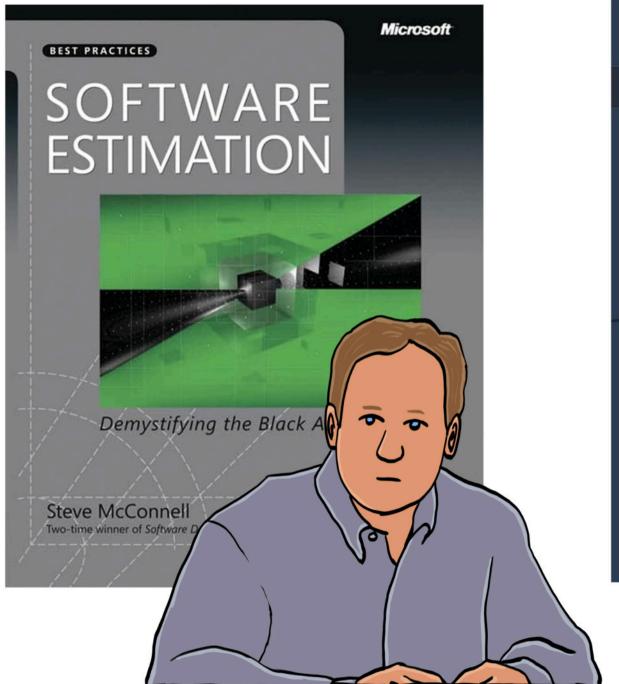


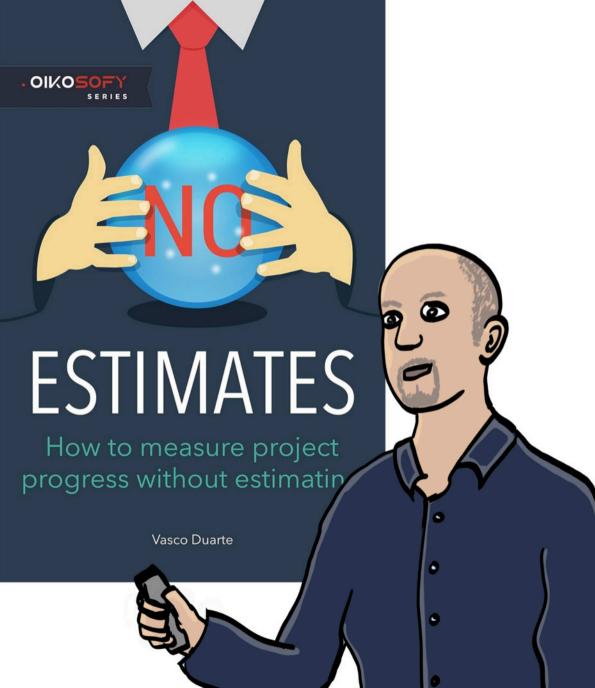
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