



Agile Estimation and Capacity Planning

Welcome





laura@appliedframeworks.com

Laura Caldie

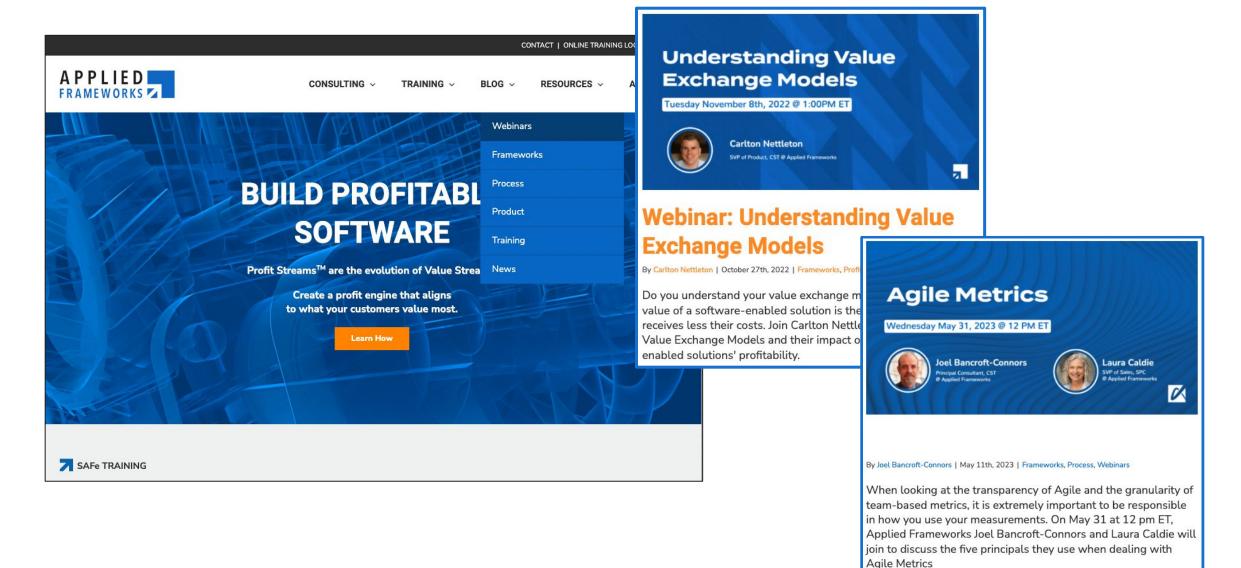
- Webinar Host
- SVP Sales, SPC
- Passion for Customer Research / Customer Understanding

We help organizations create sustainable, and profitable software-enabled solutions and services through...

- Agile Acceleration
- Agile Portfolio Management
- Agile Product Management

https://appliedframeworks.com/category/webinars/





About our speaker...





Joel Bancroft-Connors The Gorilla Coach

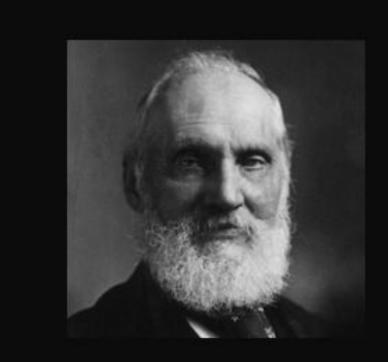
Troy Magennis Agile Forecasting & Data Analytics

- Certified Scrum Trainer
- + Certified Team Coach
- + TheGorillaTrainer@gmail.com
- + Linkedin.com/in/joelbc
- + YouTube.com/@TheGorillaCoach

- President- Focused Objectives
- https://www.focusedobjective.com/
- + <u>Troy.Magennis@focusedobjective.co</u>m
- LinkedIn.com/in/troymagennis







If you can not measure it, you can not improve it.

~ Lord Kelvin

AZ QUOTES



Why do we estimate?

How do we estimate?





Group Solitaire



Problems with Planning Poker











HOFSTADTER'S LAW

OPTIMISM BIAS

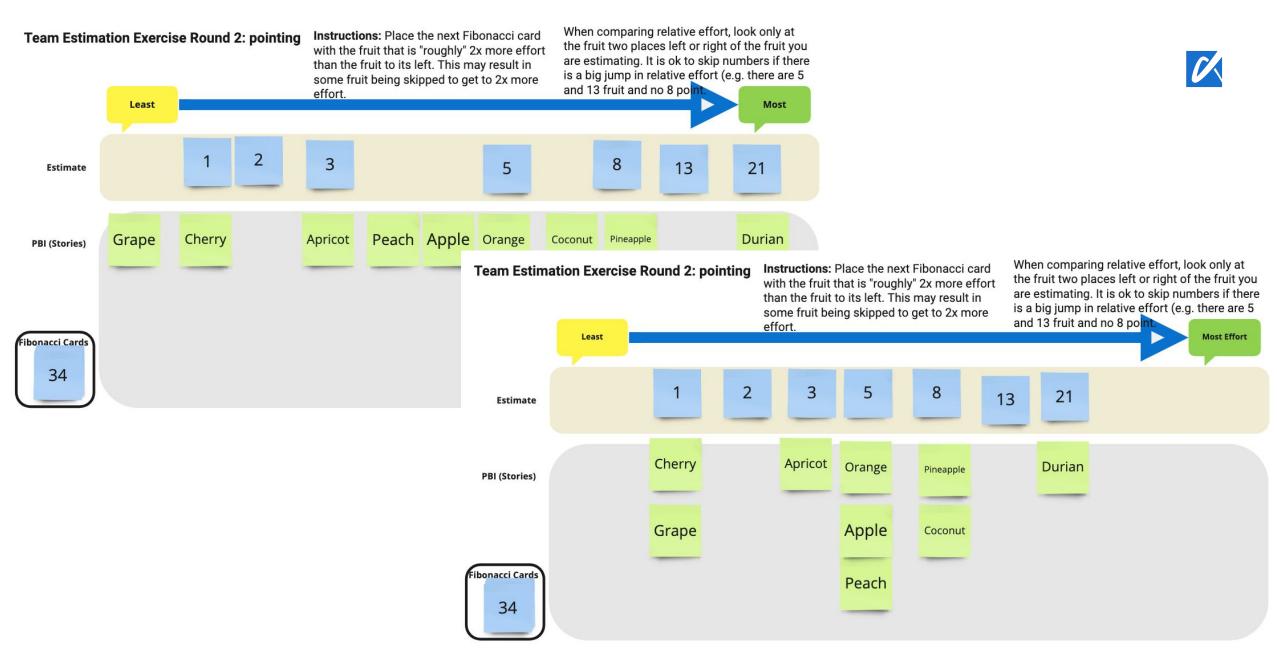
THE PLANNING FALLACY

WE DON'T DO TIME WELL

There has to be a better way







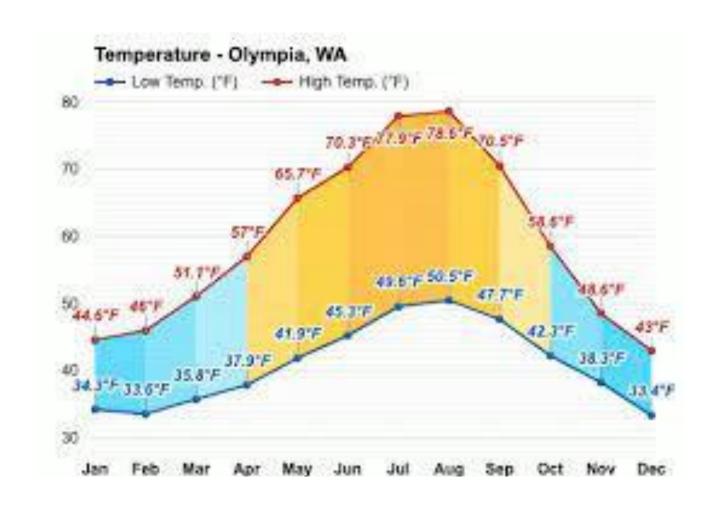
Miro Template: https://miro.com/miroverse/relative-estimation-template/

No matter how good your estimates are, it won't all get done



Forecasting and Capacity Planning

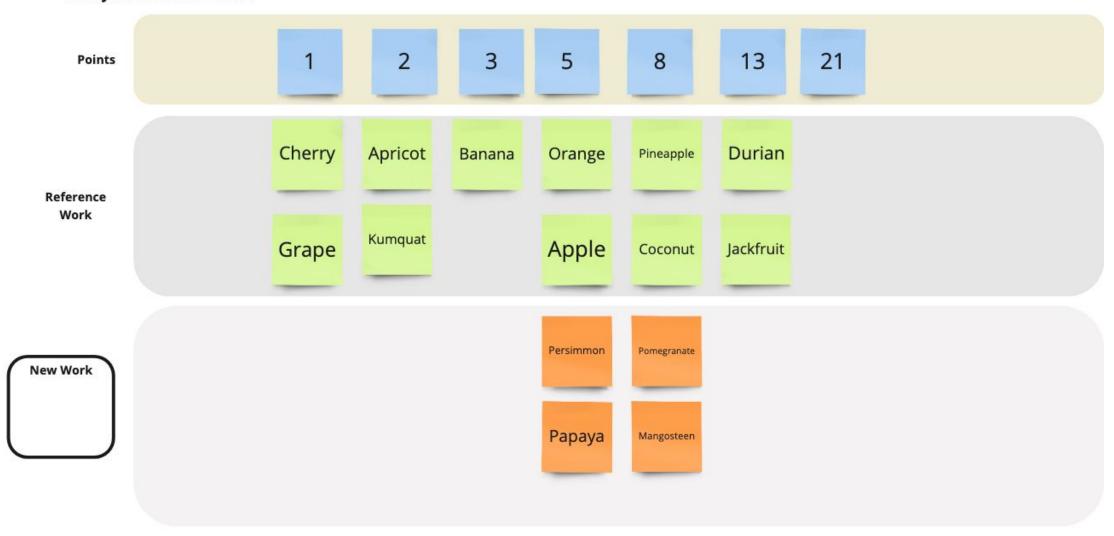
- There will always be more work
- Prioritizing helps
- The date will almost never change
- Being able to answer
 "How much can we do" is vital



Story Reference Boards



Story Reference Board



Capacity Planning with Story Reference Boards



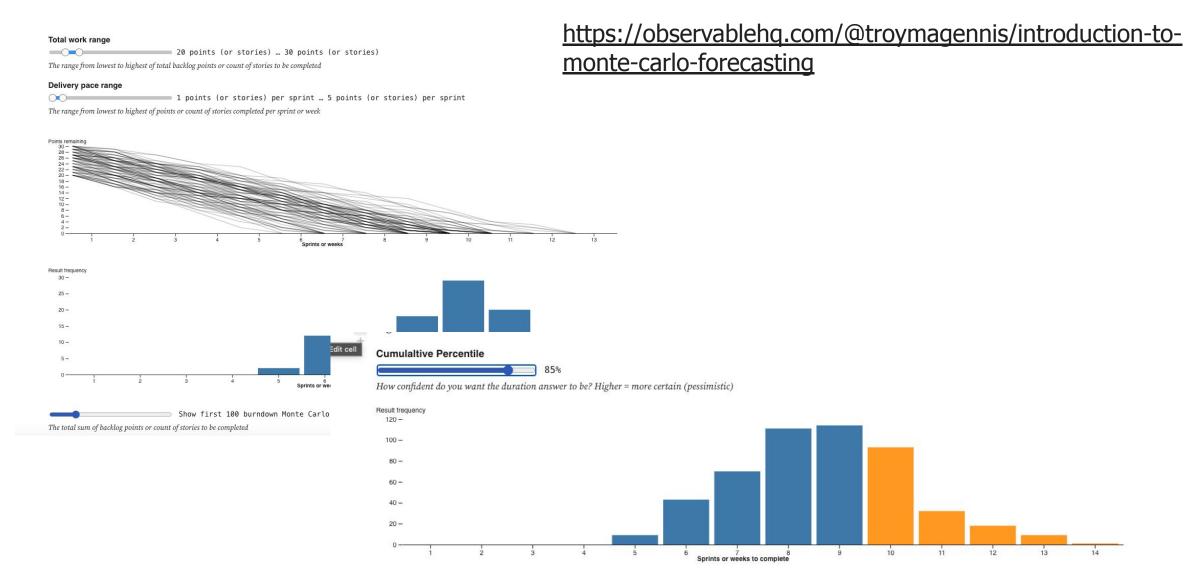


An even better way...



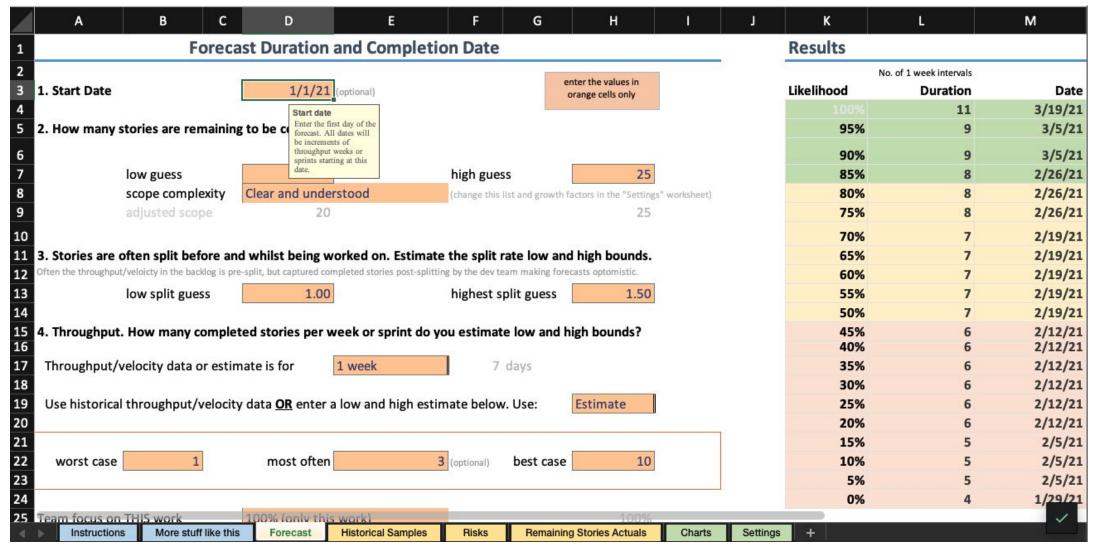
Simple Monte Carlo Examples





Throughput forecaster





https://github.com/FocusedObjective/FocusedObjective.Resources/raw/master/Spreadsheets/Throughput%20Forecaster.xlsx

Multiple Feature Cut Line Forecaster



Feature Cut Line Forecaster and Explorer					edit orange input cells like this one!		<u>.</u> 1	
1. Start Date	1/1/21 2. Target Date	3/1/21		3. Likelihood	85%		8. Month	Throughput Adjustment (increase or decrease throughput by multiplying)
4. Stories are often spl Enter the first day of the forecast. All dates will be increments of throughput weeks or 1.00 Start date Enter the first day of the forecast. All dates will be increments of throughput weeks or 1.00 Highest guess					2.00		Month January February	Multiplier Why? (add a comment with the assumptions) 1.0 1.0
sprints starting at this date. 5. Throughput (or velocity): now many completed stories per week or sprint do you estimate low and high bounds?						March April May	1.0 1.0 1.0	
Throughput/velocity data or estimate is per Week 7 days (choose a time interval that throughput of velocity is measured in weeks from the list in the orange cell above)							June July	5 1.0 7 1.0
Use historica	l data <u>OR</u> enter a low and high estimate belo	w.		Choose here:	Estimate		August Septembe October	8 1.0 9 1.0 10 1.0
Worst case 5 Best case 8 November 11 1.0 December 12 1.0								
Team focus on THIS work 100% (only this work) 100%								
6. Enter the features and story count (or point) estimates here					Start date: 01/01/2021			
Start Order	Feature (or Epic) Name (just for reference)	Story Count (or points) Low	Story Count (or points) High Guess	Scope complexity (how well understood is this scope)	Complete by Week	Forecast Completion (85% CI)	Date Legen	d
1	Feature 1	5	-				/22/21	Forecast on or before the target date
2	Feature 2	8	15		6	√ 2,	12/21	Forecast misses target date by one Week or less
3	Feature 3	15	25		12	× 3,	26/21	Forecast misses target date by MORE than one Week
4	Feature 4	20	30				14/21	
5	Feature 5	10	40		26	×	7/2/21	
6						-		
7						-		
- 8 9								
10								
11	2						3	
12	() () () () () () () () () ()							
Instructions More Like This Forecast Historical Samples Settings and Calculations +								



Questions?



Thank you!

Y () in