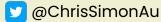
Drive Startup Success as an Adaptive CTO







@ChrisSimonAu@hachyderm.io

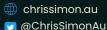


About Chris

- 2 x Co-founding CTO (since 2005)
 - 1 x exit by trade sale
 - 1 x operating business (Non-Executive Director)
- **Startup CTO Coach**
- Trainer, advisor, consultant, meetup organiser, open source developer, speaker



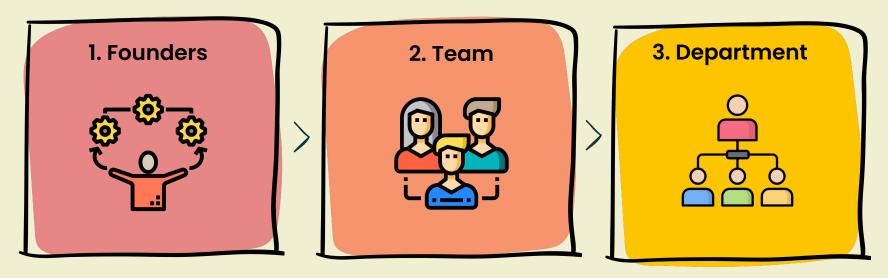
Empowering Technology

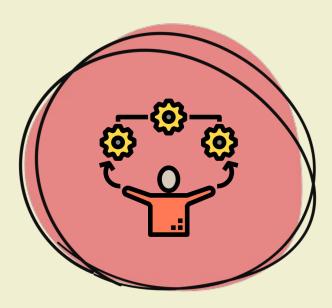




Three Phase CTO Journey

Adapt with your growing business.





Phase 1 -Founders

\triangle_{\triangle} Is a startup CTO necessary?

+ Follow · · ·

You Don't Need a CTO to Launch **Your Startup**



+ Follow

March 30, 2017

and rarely writes code. It's common for under-qualified startup cofounders to call themselves CTOs. However, many times they're just execution-focused engineers with inflated job titles. Theoretically, it would be great to have someone in this role

https://www.linkedin.com/pulse/you-dont-need-cto-launch-your-startup-dana-spiegel/



Marc van Neerven • 2nd

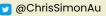
Transformational (fractional) CTO, Board Advisor, Cloud ... 8mo • 🕟

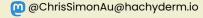
Dear SaaS founders.

Calling your Lead Developer a CTO isn't right, and may cause issues later on.

https://www.linkedin.com/posts/myneerven_cto-strategy-startups-activity-7018173658569269248-xzKX/







Startups: You Don't Need a CTO (Yet)



Jason Cole

Entrepreneur, CTO, Advisor, and Mentor

+ Follow

July 21, 2017

https://www.linkedin.com/pulse/startups-vou-dont-need-cto-vet-igson-cole/

INSIGHTS > PRODUCT DEVELOPMENT

From Idea to Launch: How to Build a Tech **Startup Without a CTO**



BY ARSHPREET KAUR | @ 15 MIN READ

https://www.netsolutions.com/insights/how-to-build-g-tech-startup-gs-g-non-technical-founder/

1. CTO Co-founder Qualities



Entrepreneurial



Technology Builder



Risk Manager

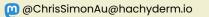


Business Leader

Salesperson









△ Entrepreneurial 🏋











MVP: Minimum Viable Product

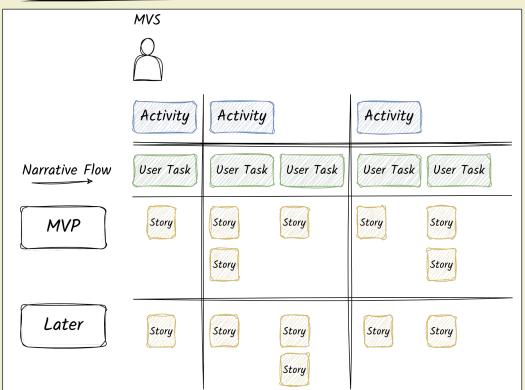


MVS: **Minimum Viable Segment**



△ Entrepreneurial 🏰





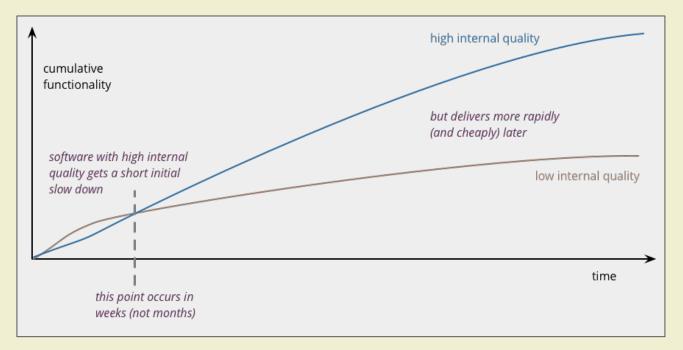
Should it be in MVP or later?

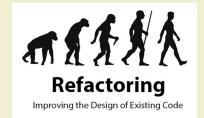
> Is it needed by the MVS?



Technology Builder

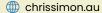


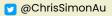




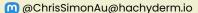


https://martinfowler.com/articles/is-quality-worth-cost.html











Risk Manager



Likelyhood	Consequences									
	Insignificant Risk is easily mitigated by normal day to day process	Minor Delays up to 10% of Schedule Additional cost up to 10% of Budget	Moderate Delays up to 30% of Schedule Additional cost up to 30% of Budget	Major Delays up to 50% of Schedule Additional cost up to 50% of Budget	Catastrophic Project abandoned					
Certain >90% chance	High	High	Extreme	Extreme	Extreme					
ikely 50% - 90% chance Moderate		High	High	Extreme	Extreme Extreme					
Moderate 10% - 50% chance			High	Extreme						
Unlikely 3% - 10% chance Low		Low	Moderate	High	Extreme					
Rare <3% chance	Low	Low	Moderate	High	High					







Risk Manager



		MANAMANANAN MANAMANAN MANAMANAN MANAMANA	Risk Register			
Risk	Category	Impact	Likelihood	Risk Rating	Mitigant	Residual

Risk Register

Mitigant

We will implement <mitigant> when <business metric> crosses <threshold>.





Phase 2 - Team

2. CTO Team Leader Qualities



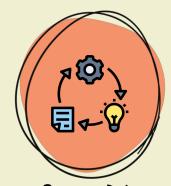
Recruiter



Energiser



Team Builder



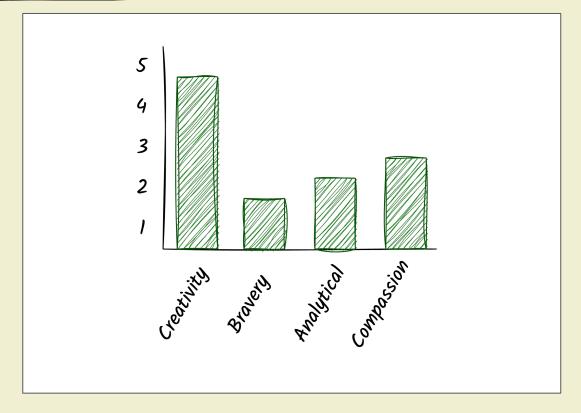
Process Driver (but not too much process)



Culture Custodian

Recruiter



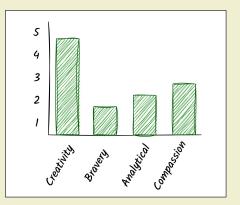


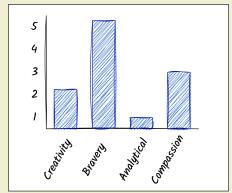


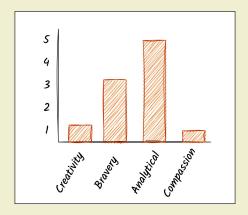
#YOWTLS23

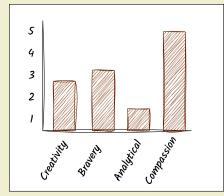
Recruiter









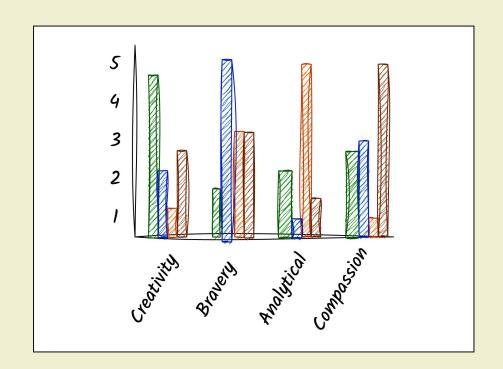


Recruiter



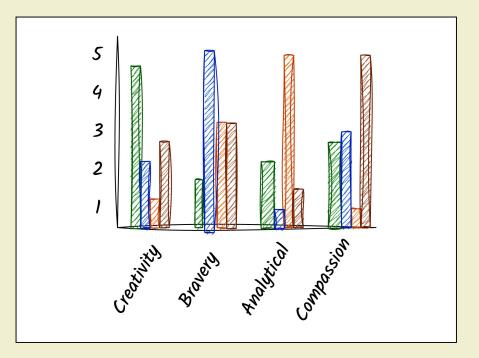


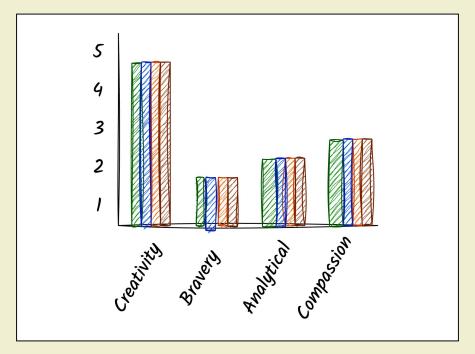
https://smallbusiness.chron.com/differences-between-groupwork-team-work-11004.html



Recruiter







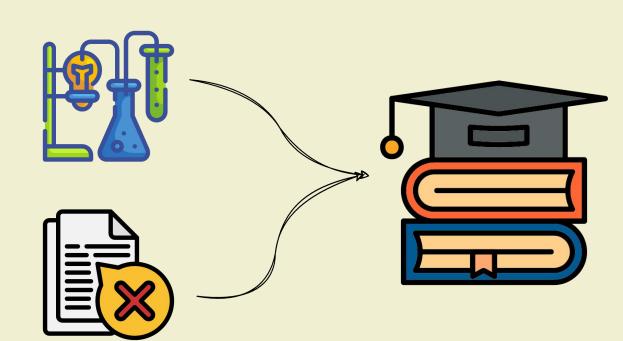
Culture Custodian

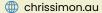


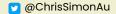
Psychological Safety



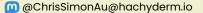
https://rework.withaooale.com/print/auides/5721312655835136/











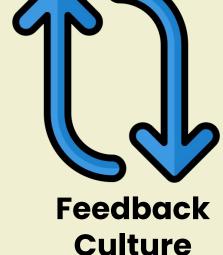


Culture Custodian



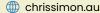


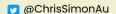


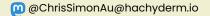


Be **Specific** about **Actions** and Outcomes

https://www.dancinawithmarkers.com/bloa/feedback

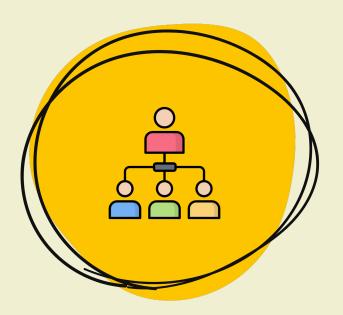












Phase 3 -Department

3. CTO Qualities



Situationally Aware



Talent Brand Ambassador



Socio-Technical Architect



Process & Tooling Scaler



Engineering Culture



△ Situationally Aware















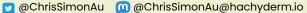














Socio-technical Architect

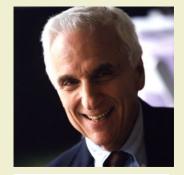




The basic thesis of this article is that organizations which design systems ... are constrained to produce designs which are copies of the communication structures of these organizations.

Because the design which occurs first is almost never the best possible, the prevailing system concept may need to change. Therefore, flexibility of organization is important to effective design.

- Mel Conway, 1968

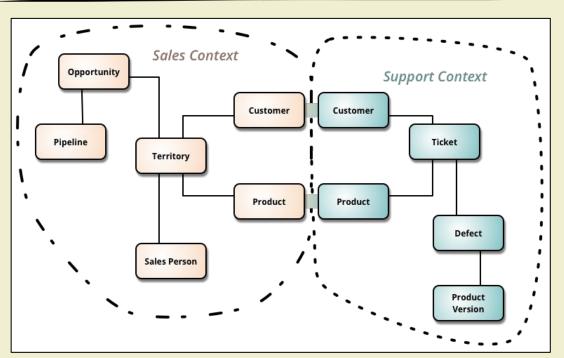




Socio-technical Architect



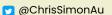






https://martinfowler.com/bliki/DomainDrivenDesign.html



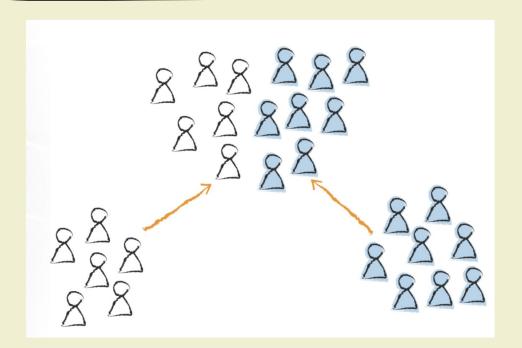




Socio-technical Architect







Dynamic Reteaming



https://www.heidihelfand.com/dynamic-reteaming/



△ Process & Tooling







March 6, 2021 Volume 19, issue 1



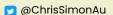
The SPACE of Developer Productivity

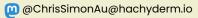
There's more to it than you think.

Nicole Forsgren, GitHub Margaret-Anne Storey, University of Victoria Chandra Maddila, Thomas Zimmermann, Brian Houck, and Jenna Butler, Microsoft Research

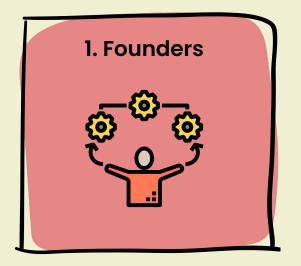


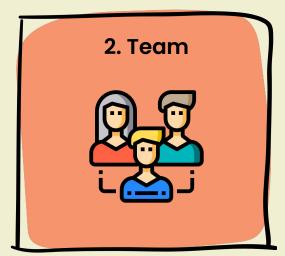


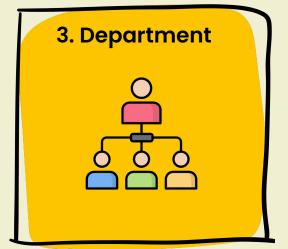




Recap - 3 Phase CTO Journey



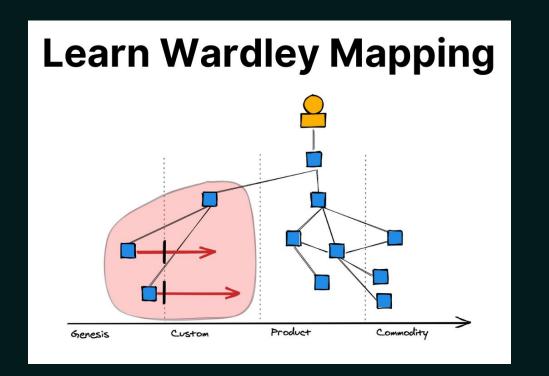




Wardley Mapping



https://learnwardleymapping.com/



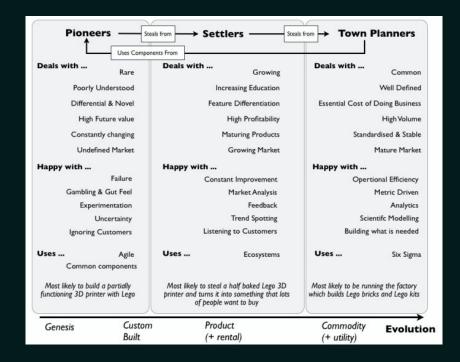








Wardley's Personas





https://blog.gardeviance.org/2012/06/pioneers-settlersand-town-planners.html



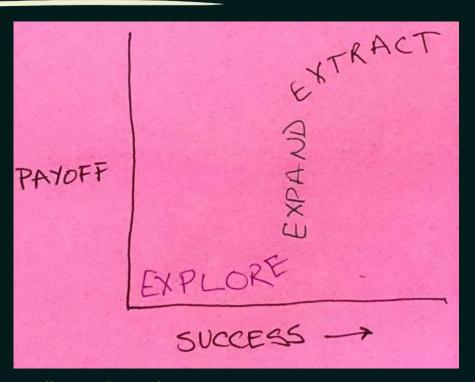






Kent Beck's 3X





https://medium.com/@plindberg/kent-becks-3x-87088712d8aa

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@ChrisSimonAU

@ChrisSimonA@ hachyderm.io





