

lean startup

founded on build/measure/ learn

get out of the building (GOOB)

invalidate your risky assumptions

go for the minimal viable product (MVP)

fail fast, learn fast

get to the pivot

designing products for build/ measure/learn (lean startup)

requires 3 rules to be followed at all times

get to & maintain a shared understanding

form deep collaboration across disciplines

keep continuous customer feedback flowing

THE **LEAN** SERIES

Jeff Gothelf with Josh Seiden



Applying Lean Principles to Improve User Experience



lean ux and paypal

my journey in championing lean ux @ paypal



what I came from

continuous customer feedback (get out of the building - GOOB)

customer metrics drive everything

think it. build it. ship it. tweak it

fail fast. learn fast.

lots of experimentation... build/measure/learn

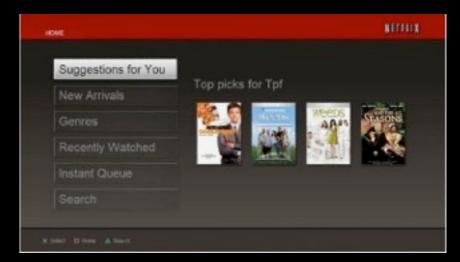
launching the ps3 experience

16 different test cells

2 different tech blogs were simultaneously reviewing different experiences

focus was on build/measure/learn

four different PS3 experiences launched on same day









paypal vs netflix

paypal circa 2011

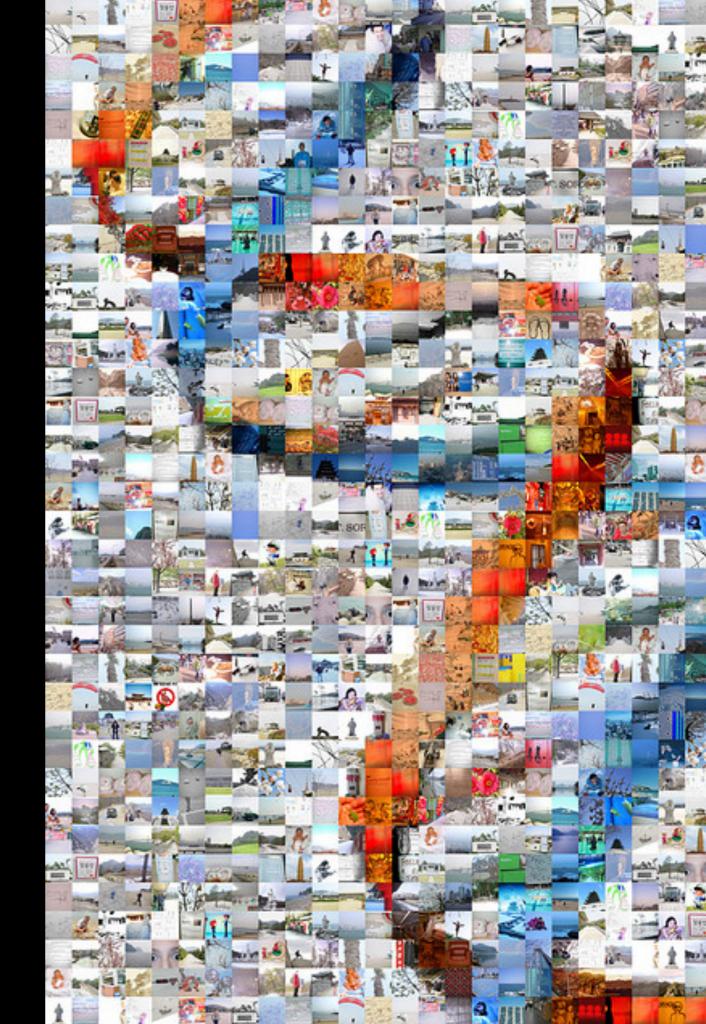
roll your own. disconnected delivery experience. culture of long shelf life. inward focus. risk averse.

new dna @paypal

january 2012 fleshed out ui layer that could support rapid experimentation

march 2012 david Marcus becomes president of PayPal

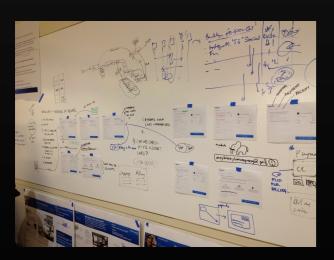
april 2012 kick off of lean project

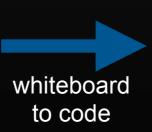


hermes project

lean ux in action

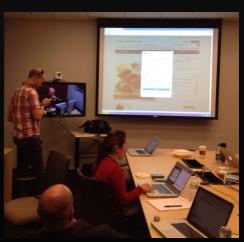












product/design/engineering teams

usability/ customers

My Volusion Store

before leanux

Contact information

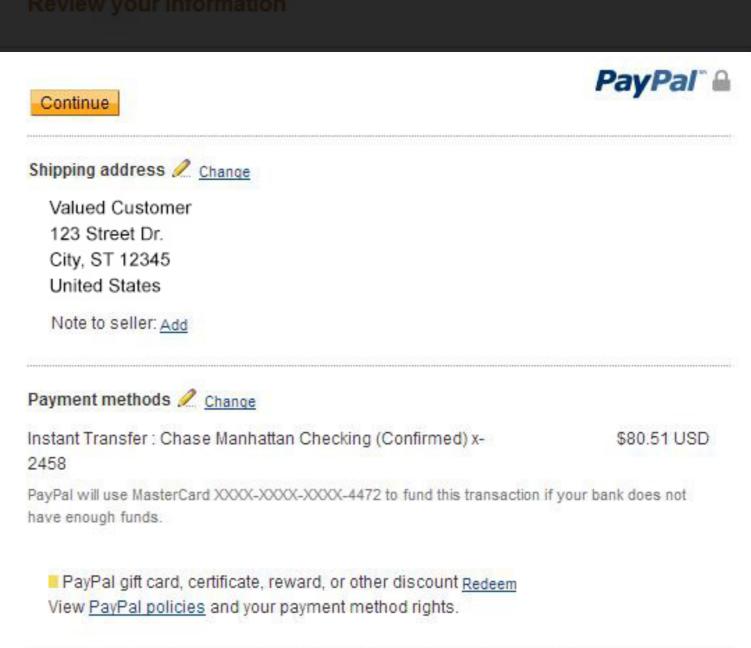
Continue

valued customer@mail.com

Your order summary

Descriptions	Amount
Order Sub-Total Item price: \$60.00	\$60.00
Quantity: 1	
Item total	\$60.00
Tax	\$7.80
Shipping and handling:	\$12.71

Total \$80.51 USD



You're almost done. You will confirm your payment on My Volusion Store.



the anti-patterns

lessons learned about what inhibits lean teams from thriving



genius designer

all design emanates from an huber designer, team doesn't collaboratively participate in design/ideation.

solution: Keep the inspiration of genius designer but bring in others to brainstorm, focus on MVP (minimal viable product) to test with customers immediately, critical to build team success early.

tribal group

when a team is very small members are forced to work across disciplines. As soon as team gets bigger, tribes reform around skills. collaboration stops.

solution: keep team reasonably small. leaders in each discipline must form a tribe that works across disciplines. keep collaboration high.





newcomer

lean teams will form shared understanding. however, when new "stranger" joins we assume this hard earned understanding will just happen.

solution: the team must immediately stop and initiate the newcomer. be patient, answer questions, reset vocabulary and enjoy the new voice in the team. get back to regular cadence.

visitor

input from outside the team is essential. however, watch out people cycling in & out of the team can cause the same disruption that the **stranger** anti-pattern causes, also known as swoop and poop.

solution: customer trumps visitor, take input, test early and often with customers, that is the only "visitor" that ultimately matters.





naysayer

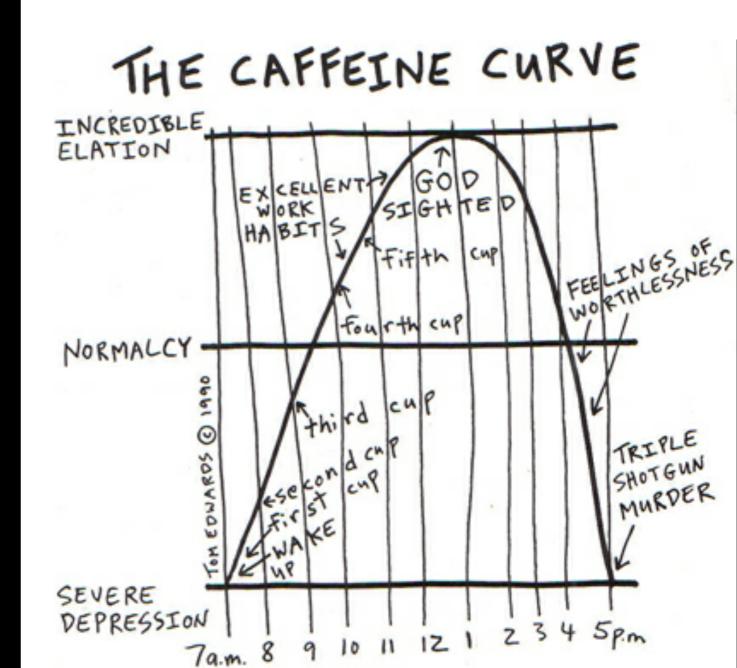
with collaboration so important it is key to believe in the process to create great products, a single naysayer can bring the team down in an instant.

solution: the naysayer must either learn new techniques or leave the team. often they have valid concerns, channel that energy convergence time not divergence thinking.

bad habits

teams will often make a good start by trying out new behaviors and seemingly leave old behaviors behind, beware! old habits will creep back in.

solution: you must do it long enough and be successful long enough to ensure team members internalize the new habits, build in checks and balances that enforce new habits.





magic tools

design & prototyping tools can accelerate ideation and design. however, be careful, tools that empower prototyping can enable designers to work in isolation.

solution: use tools as means to collaborate, never revert to "delivery" model of design, sketching is a real key to encourage collaboration, also "design in the wild" approach.

INSTEAD, JUST USE THE WHITEBOARD

Yep. That's it

Don't have different deliverables for DESIGN?

ENGINEER

DESIGNER

Instead You're all working on 1 deliverable



going dark

when a developer, product manager, or designer goes dark for more than a day (or two) the team is losing valuable collaboration.

solution: working in isolation is necessary from time to time. however, limit to short periods of time. make work continuously visible. balance individual productivity with group creativity



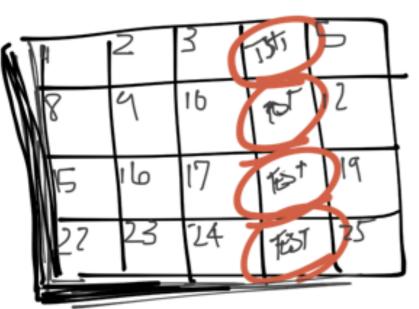


change of cadence

change of cadence is actually a good and normal happening. however, whenever the rhythm changes it can bring productivity down.

solution: prepare the team for the change and quickly get focus and re-establish with new cadence.





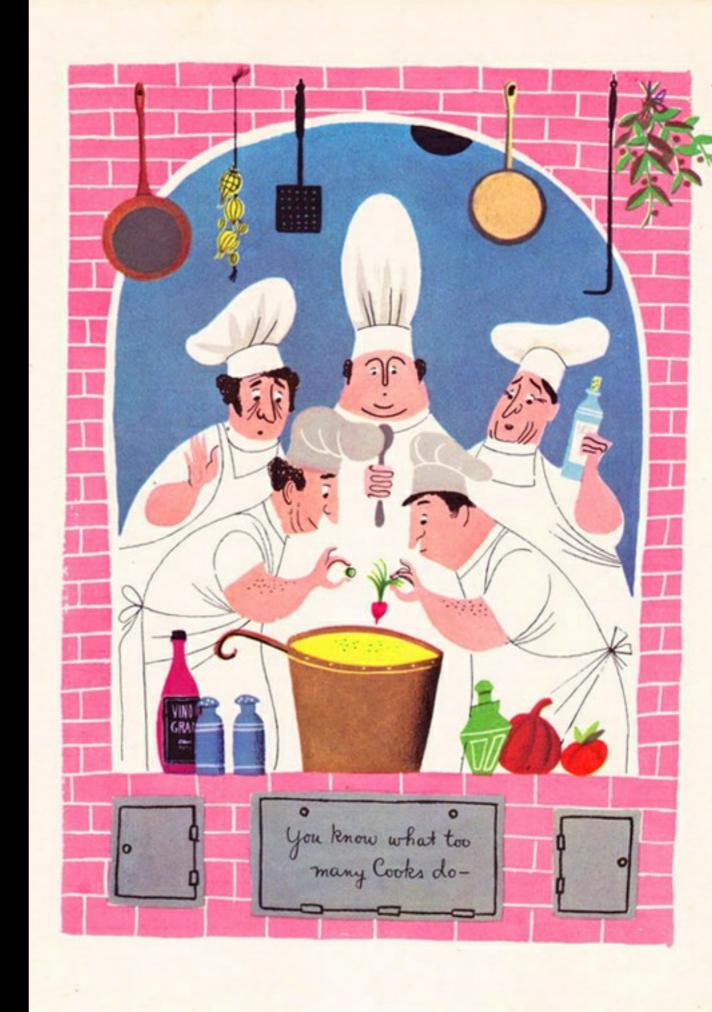
typical weekly cadence

credit: Krystal Higgins http://bit.ly/18uP7N1

too many cooks

the work needs to be divided up among different types of cooks (Chef de cuisine, Souschef, Chef de partie)

solution: have clear decision makers in each discipline and have specific roles (you can also rotate these functions).





not enough pizza

when a team suddenly scales up in size the team is in danger of losing cadence, shared understanding and focus

solution: keep teams to 2pizza size, clear lines of responsibilities and laser focus for the team must be maintained.

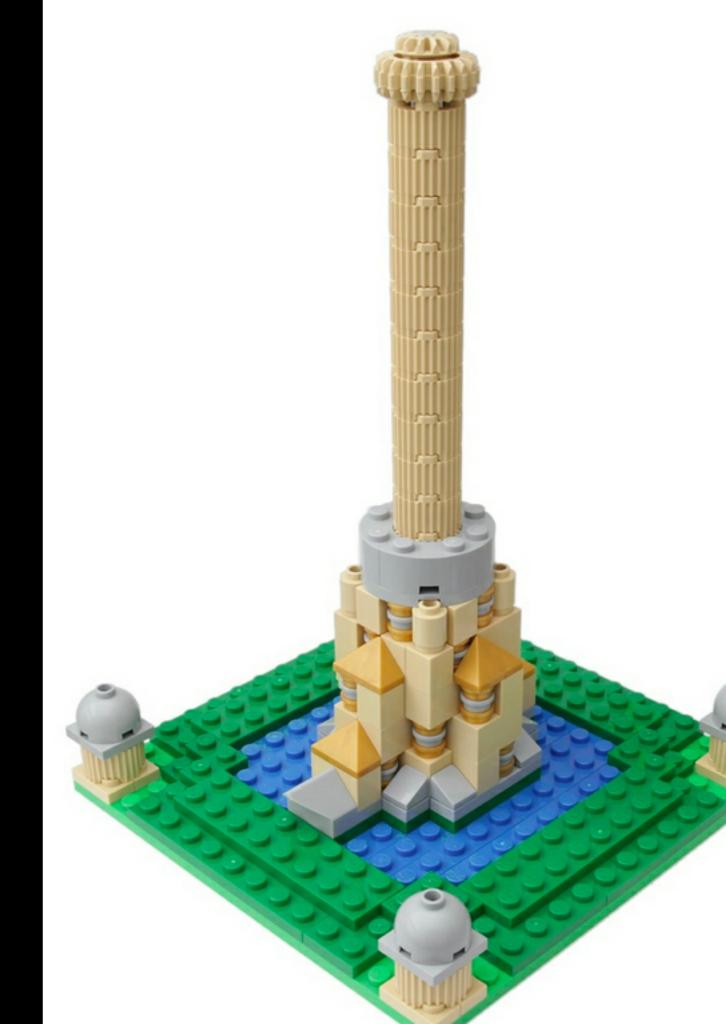


this is NOT the size of pizza I am talking about

tower of babel

shared understanding is key to lean ux. however, it is easy to assume too quickly that team members are speaking the same language

solution: always ask, "what do you mean by x?". always ensure other disciplines understand your jargon. spend time with customers together.



shared understanding

recognize teams come from different "worlds" and "languages"

Need a "vulcan mindmeld"



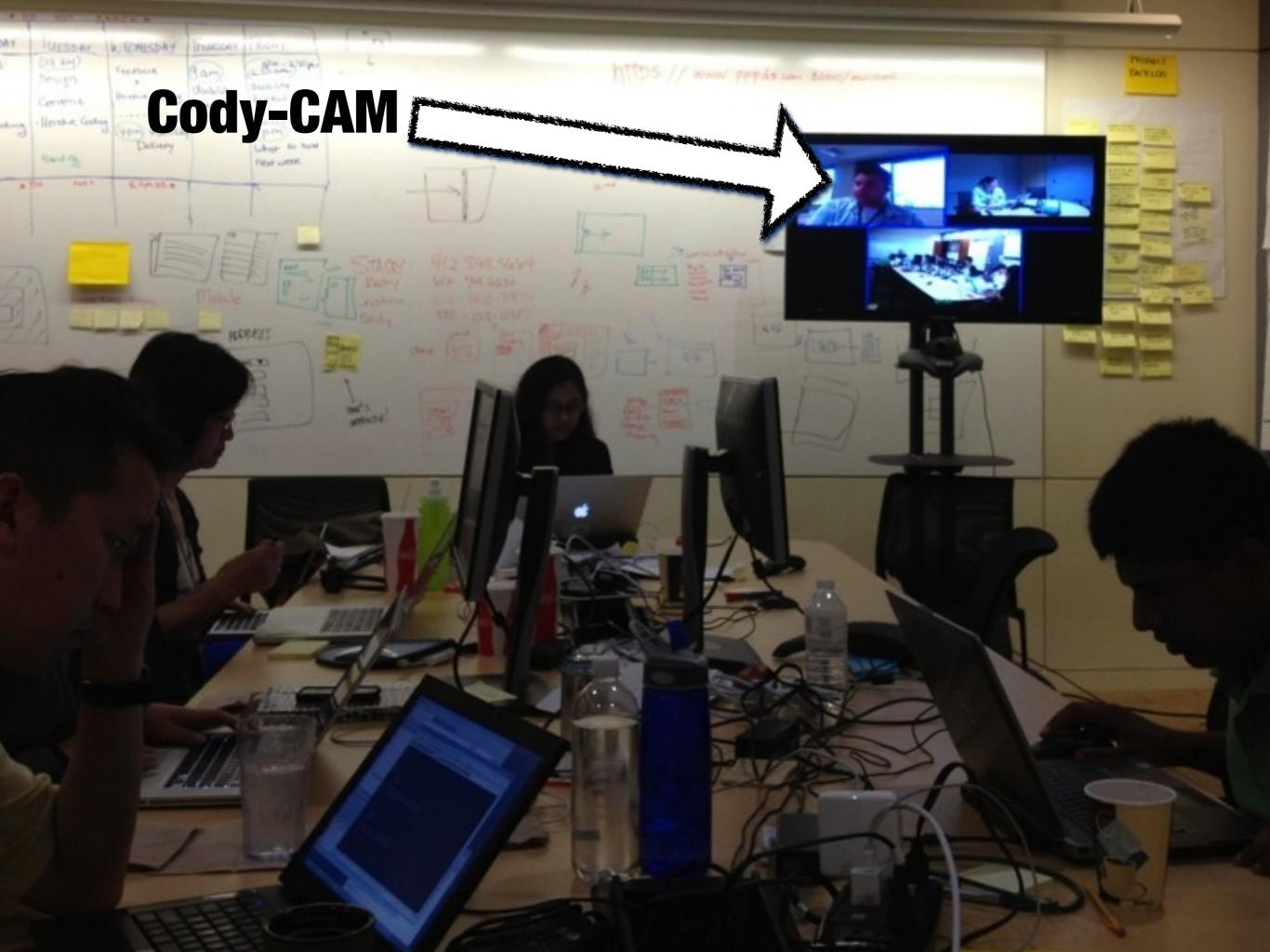
credit: Krystal Higgins http://bit.ly/18uP7N1



you got mail

teams can revert to email over collaboration. also, geographically distributed teams can fall into delivery by email vs collaboration.

solution. utilize high bandwidth communication (face to face, hangouts, telepresence, magic whiteboards, etc.) balance: asynchronous communication is good.



inmates running the asylum

this is from Alan Cooper's classic book of the same title. when engineers drive design the inmates are running the asylum.

solution. front end engineers must partner with product/design and get out ahead of backend engineers (lean ux). experience debt is equally important to technical debt.





perfectionist

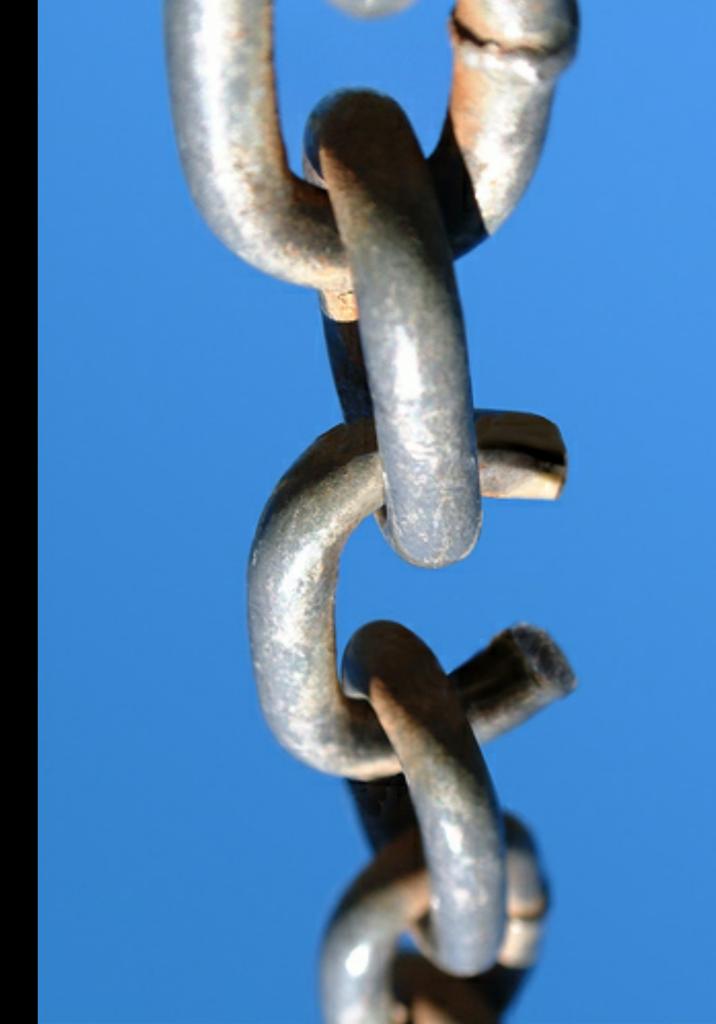
not embracing the challenge of the unknown, the perfectionist will not share their work till it is perfect, easy for designers to fall into this trap.

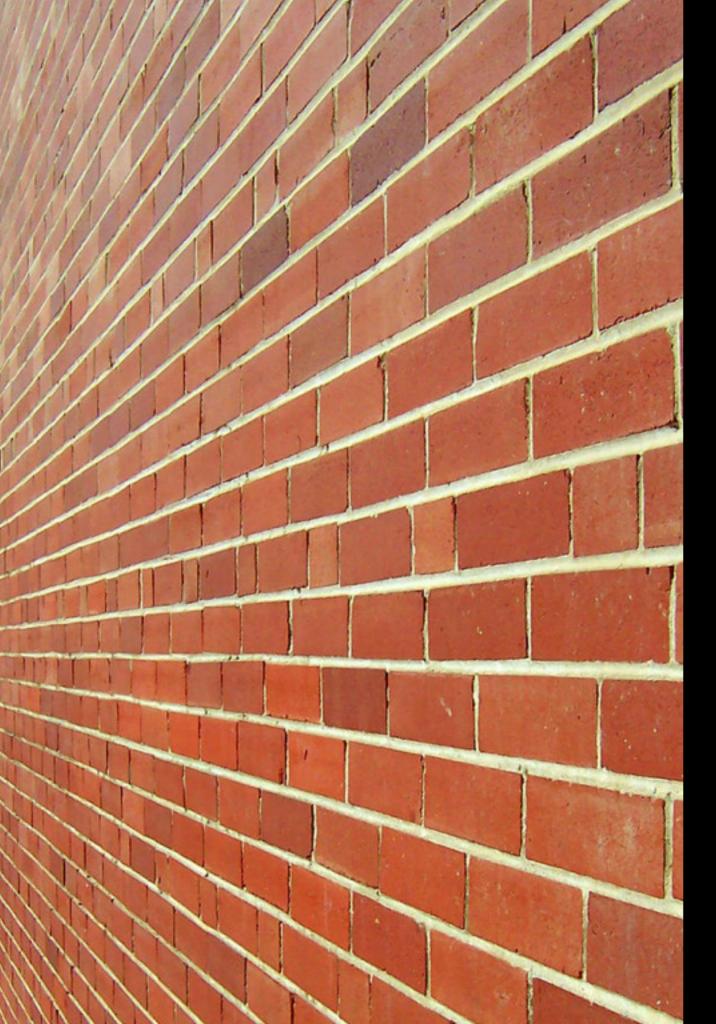
solution: engineers must not judge rough designs, instead use as springboard for discussion. designers must realize iterative will yield better designs, sketching can break this mindset, make it easy to release experiences.

weakest link

team members who aren't up to the challenge of close proximity & transparency can cause a team to stumble.

solution: talent acquisition must match this style of product delivery, must have freedom to replace talent, softskills are highly valued.





the wall

walls between teams can happen when

- we allow tribes to form
- we see the other teams as separate delivery factories
- geo-distributed teams
- focus on documentation

solution: always work in small teams, collaborating not delivering and build shared understanding, challenge every hand-off point.



credit: Krystal Higgins http://bit.ly/18uP7N1

tangled up technology

unless the technology stack is built to have a clear separation from experience & services the lean team cannot make rapid progress. watch out when dev teams care too much about the specific version of the UI.

solution: key patterns include building services, APIs and CLIs. Keep the services & UI separate. enable rapid experimentation.



UI Bits

node.js

java (rhinoscript) c++ stack (V8)

prototype & production stack

production stack

production stack (legacy)

3 key principles

remember these to keep the anti-patterns away

shared understanding

the more understanding the less documentation

but this doesn't mean ZERO documentation

you need whatever is required to gain and maintain a shared understanding





2 deep collaboration

strong belief that ideas come from many different voices

trust is essential

all efforts never stray far from collaborative efforts

3 continuous customer feedback

this is the lifeblood of the team

gets rid of politics

turns a team outside-in





blogs

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