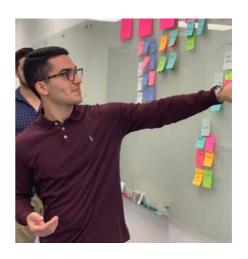
Learning Event Storming for Rapid Business Process Discovery



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Key Takeaways

Understand Domain-Driven Design

What/Why/How on Event Storming

Event Storming — Development

What's your experience with Event Storming / DDD / Other Practices?

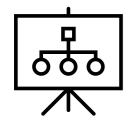


Domain-Driven Design is a *language* and *domain-centric* approach to software

design for complex domains

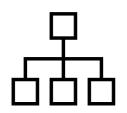


Complexity from the domain is **inherent**



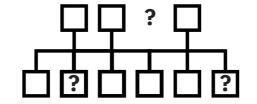
Complexity from the technical solution is accidental





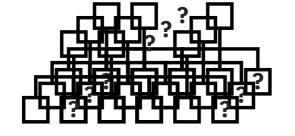
Initial product is fast to create

2



Complexity increases over time without conscious effort to organize & mitigate it



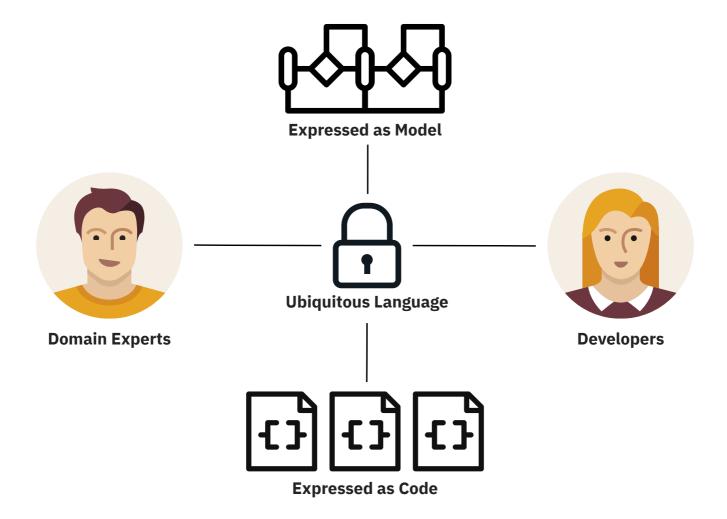


It works (technically...)

Change is risky

WHAT'S GOING ON ANYMORE?

Understanding the system is overly time-consuming



We want to engage with users whose experience did not go as expected



Domain Experts



Developers

Every five minutes, the promotion service enqueues a message to the delivery service, which queries the database and...





Domain Experts

We want to engage with users whose experience did not go as expected



Domain Experts



Developers

When the pizza is delivered, if the guaranteed delivery time of 30 minutes was exceeded, we will send them a coupon.





Domain Experts



Developers

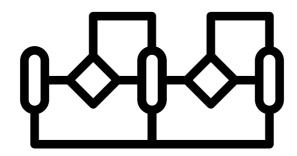
```
. .
  public void After(PizzaDelivered delivery)
    if (delivery.TimeTaken.Exceeds(thirtyMinutes)
      sendCouponTo(delivery.Customer);
```

Great, that makes sense!



Domain Experts

Event Storming is a **collaborative** approach to modeling business processes that follows **DDD** methodology



Expressed as Model







Ubiquitous Language



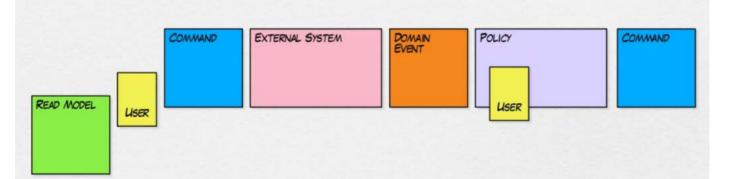
Developers



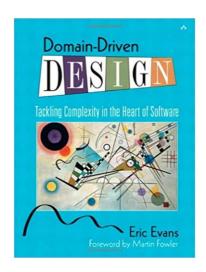
Expressed as Code

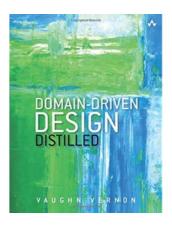


COLOUR-PUZZLE THINKING



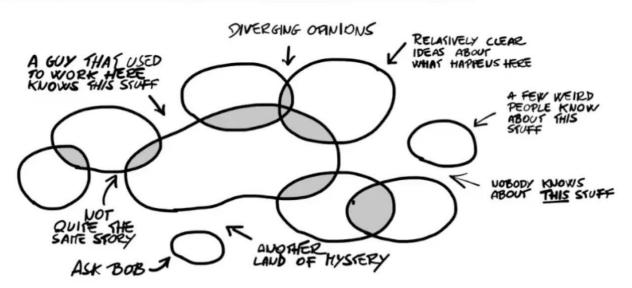






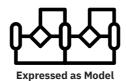
Alberto Brandolini

THE KNOWLEDGE DISTRIBUTION



Create Alignment and Shared

Understanding of Problem Space







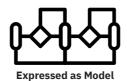


Developers



Model **Event-Driven** Systems and Discover

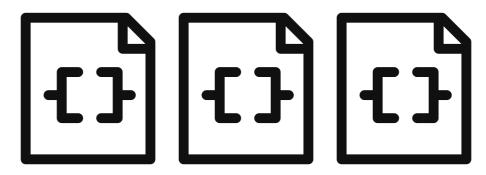
Microservices











Expressed as Code

Demo Time!

Customer Service Inbound Call Handling

Can you help me with my account balance?

Customer

Handler

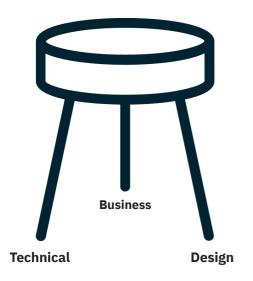
Your account balance is \$1,000.00. Anything else I can help with today?

No, thank you for your help!

Customer

Who is in the room?

Event Storm Facilitators (us!)



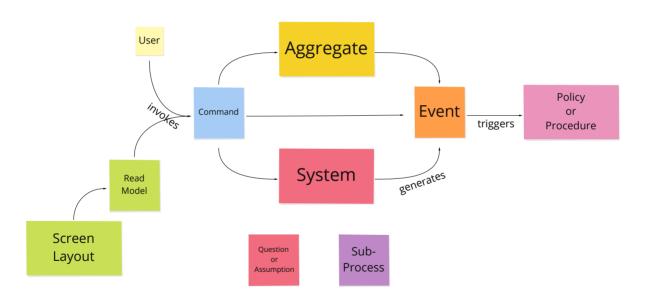
Business Stakeholders (Domain Experts)

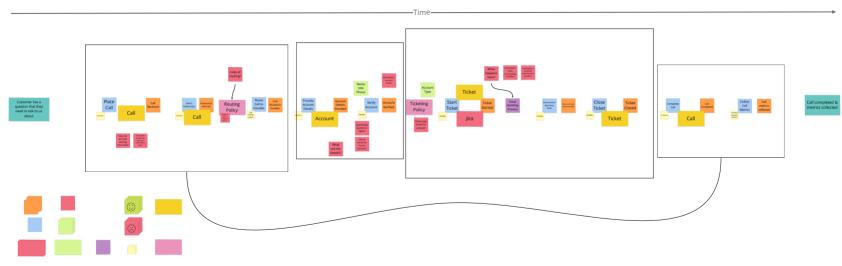
Product Owner

Developers/Architects

UI/UX

Key





Luents



something that happened that people care about

<subject> <verb>
(always past tense!)

could be timed

the meaningful result of another thing

account locked

order submitted

where do events come from?

→ could be a

system

ightarrow the passing of



or the consequence of another event

Commands



cancel

an action started by an <u>actor</u>

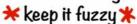


it represents the decision

usually the reverse of the event

Actors

the "user" of the system



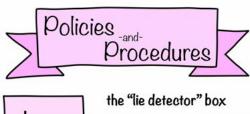




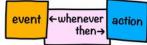


makes the





whenever



refund

refund

★key words to use are: → always

→ immediately

or agreements between humans, automatic process

→ listener

agreement

- rules

→ habit

"don't forget to..."

Sub-**Process**

can be automatic processes

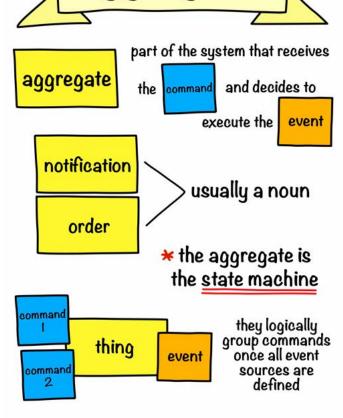
on almays applied immediately

Represents a distinct process/model

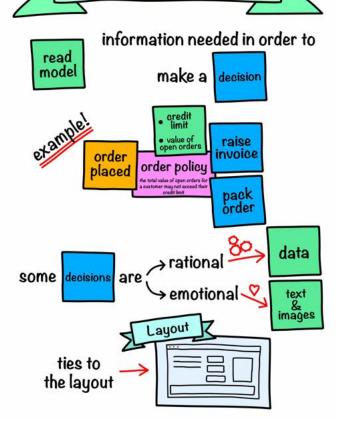
Keeps this event storm focused

Separate event storm to model subprocess

Aggregates



Read Model



Questions

- * pain points
- how / what / why,
- \star hot spots
- assumptions

this bit takes ages!

where does this data come from?

Jeff does this no one really understands this

visualize <u>both</u> sides of the argument

could be this thing or that thing

External Systems

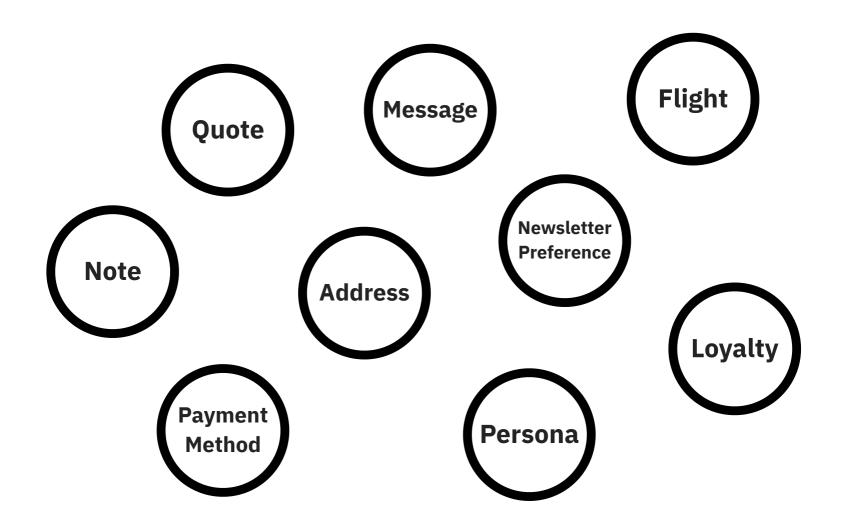
system

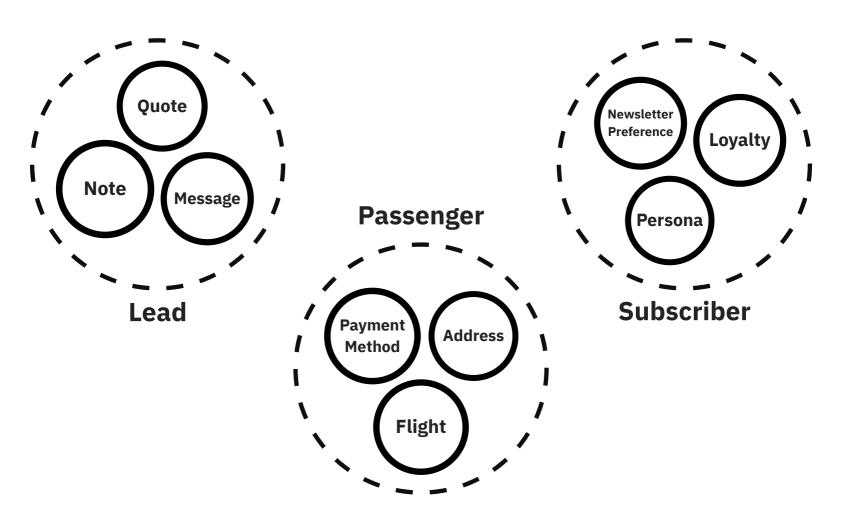
- * third-party services
- * existing systems

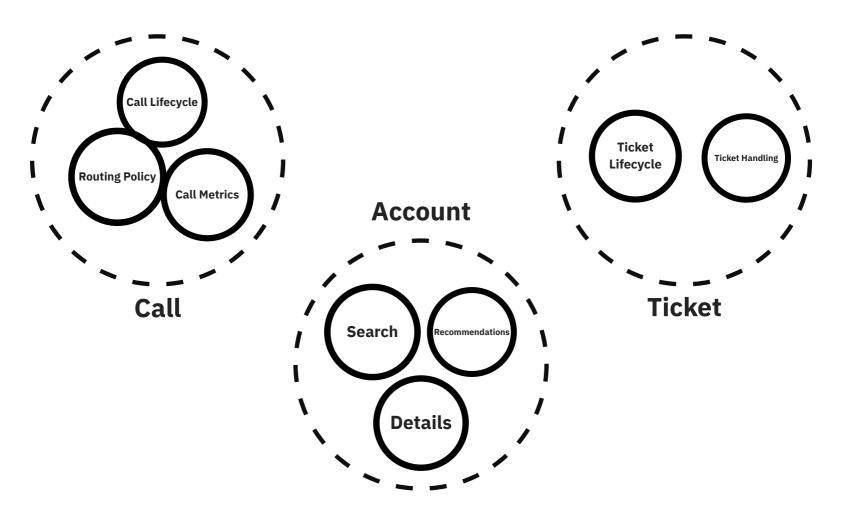
payment provider

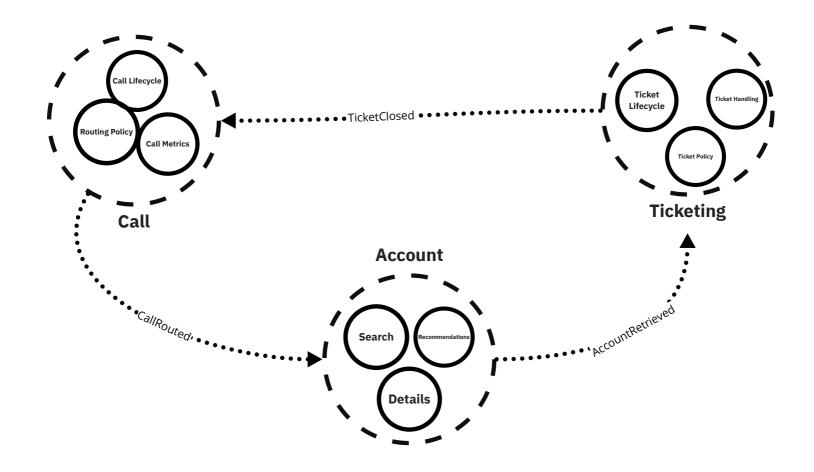
mail server

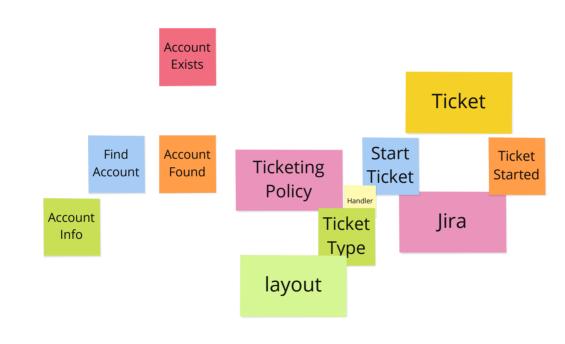
Bounded Contexts











User Story

As an <ACTOR>

I want <COMMAND>

So that <REASON/VALUE>

As a handler

I want to create a ticket in Jira So that we can audit requests

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Acceptance Criteria

Given <ASSUMPTIONS/PAST EVENTS>

When <COMMAND>

Then <EVENT>

Given an account has been retrieved

When a handler creates a ticket

Then a TicketCreated event is issued

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When a handler creates a ticket

Given an account has been retrieved

Then a TicketCreated event is issued

Given an account has been retrieved

Given <assumptions/past events/policy>

When <COMMAND>

Then <EVENT>

And the account is a premium account
When a handler creates a ticket
Then a premium ticket is created

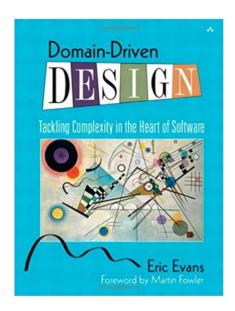
And a TicketCreated event is issued

Key Takeaways

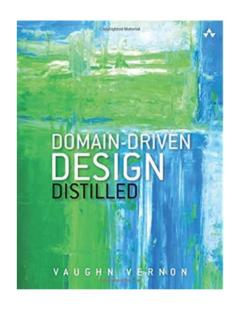
Understand Domain-Driven Design

What/Why/How on Event Storming

Event Storming — Development



Eric Evans



Vaughn Vernon

Alberto Brandolini





www.eventstorming.com

EventStorming

The smartest approach to collaborate beyond silo boundaries.

Credit for some slides/diagrams/ideas!



Event Storming

What is Event Storming? Event Storming is a rapid, interactive approach to business process discovery and design that yields high quality...

Questions



Jacob See Senior Consulting Engineer



Haitham Shahin Senior Consulting Engineer



Keep Iterating!

