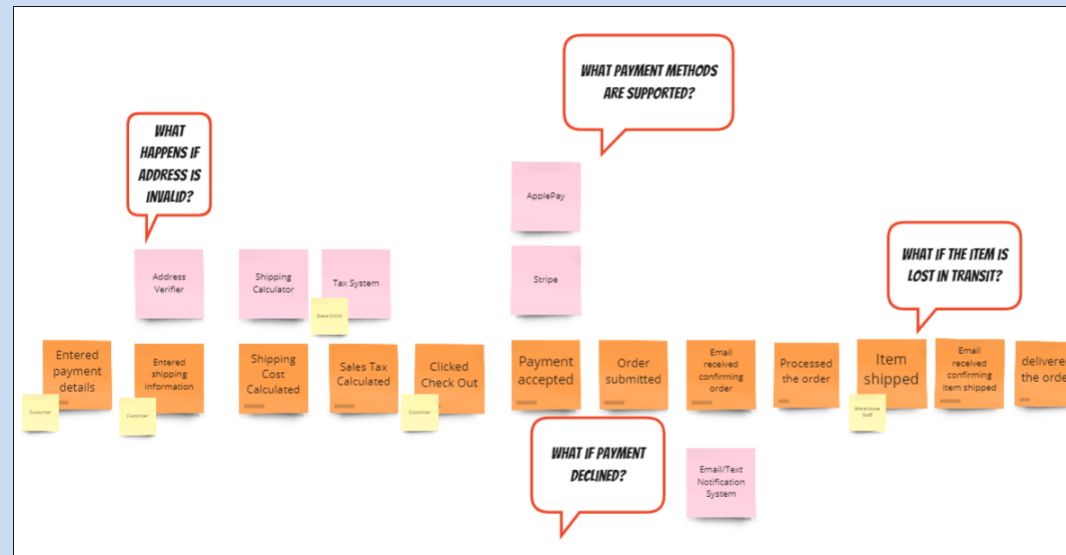


Event Storming Unleashed

Building Bridges for Effective Communication





Agenda

What is
EventStorming?

BREAK

Exercise:
Big Picture
EventStorming

BREAK

Transitioning
Between
EventStorming
Sessions

Exercise:
Process Modeling
EventStorming

BREAK

Additional
EventStorming
Guidance

Recap

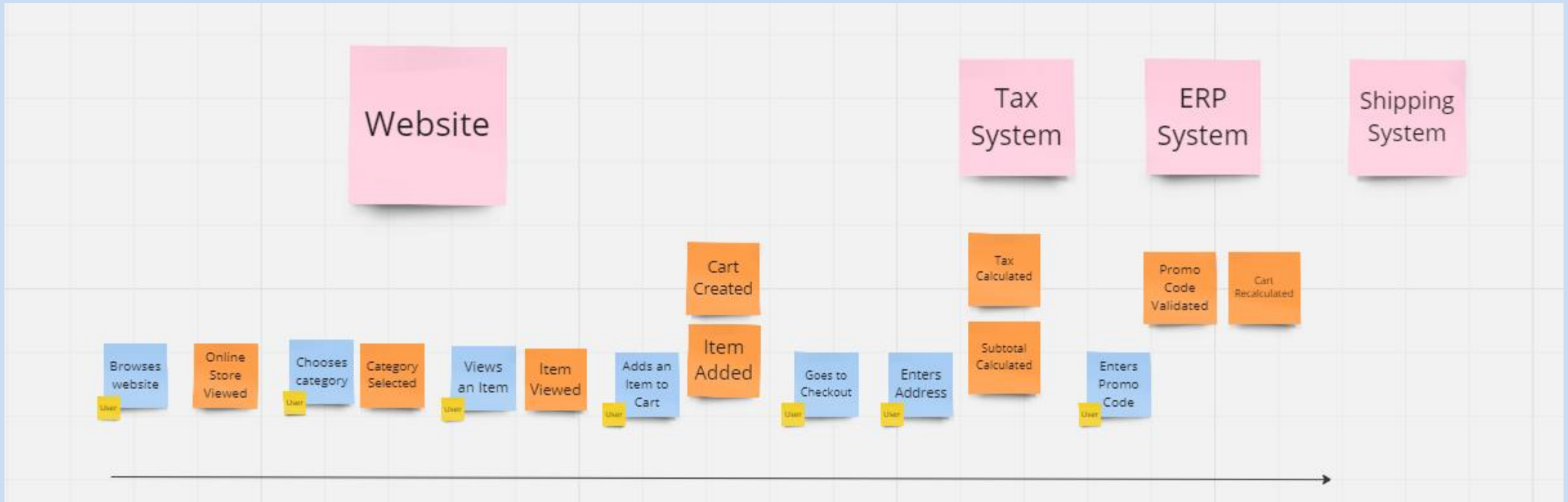


What is
EventStorming?





What is EventStorming?

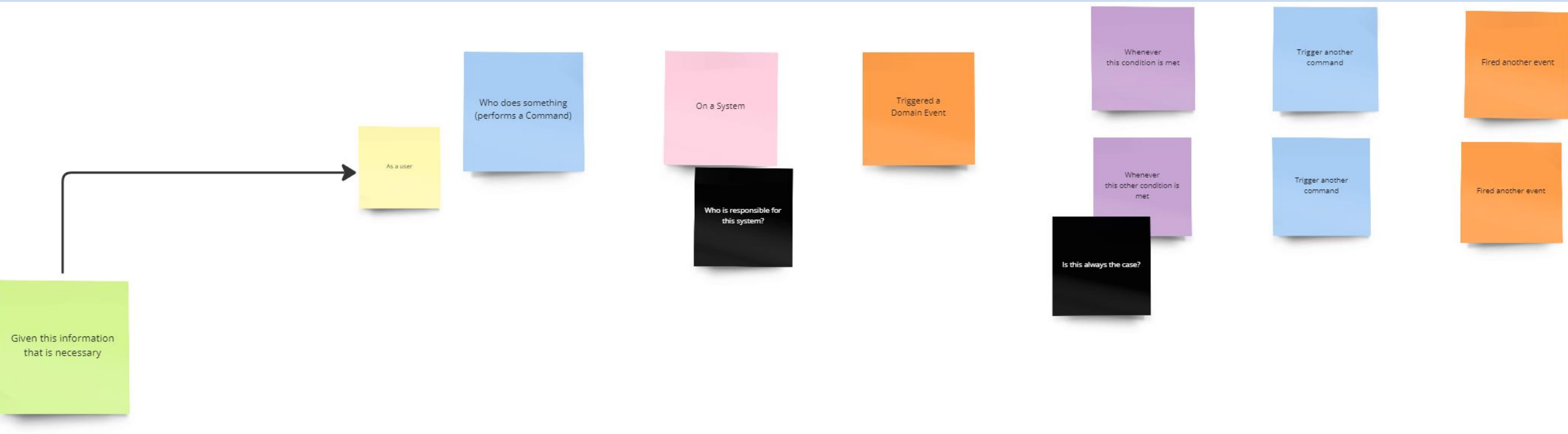


Collaborative workshop-based experience to gain a shared understanding of a **complex business system**



EventStorming Grammar

- **Conversations** with sticky notes
- Eventually structured to follow a particular **grammar**





What is
an
Event?

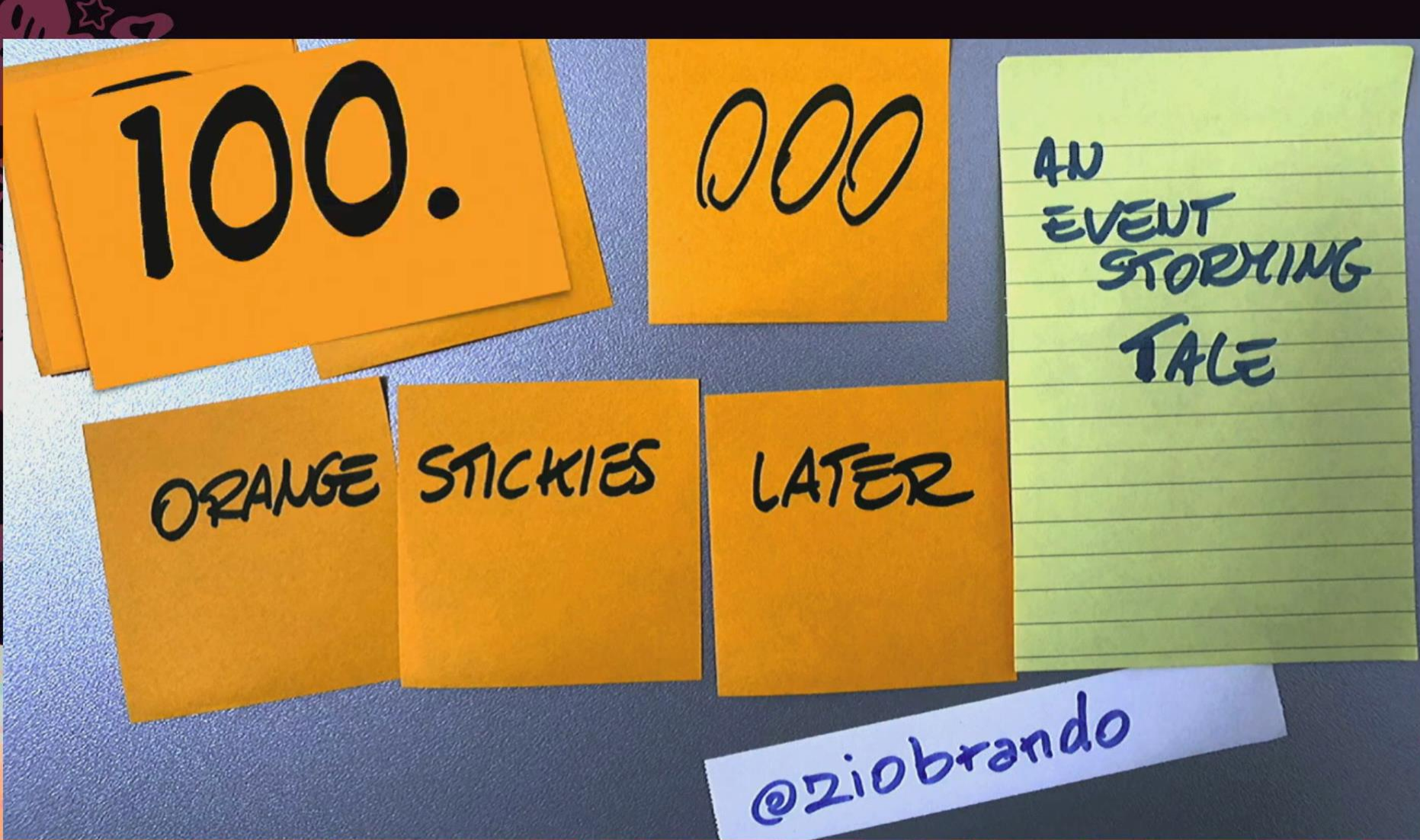




Signed up
for
EventStorming
workshop



Why the
Orange
sticky note?

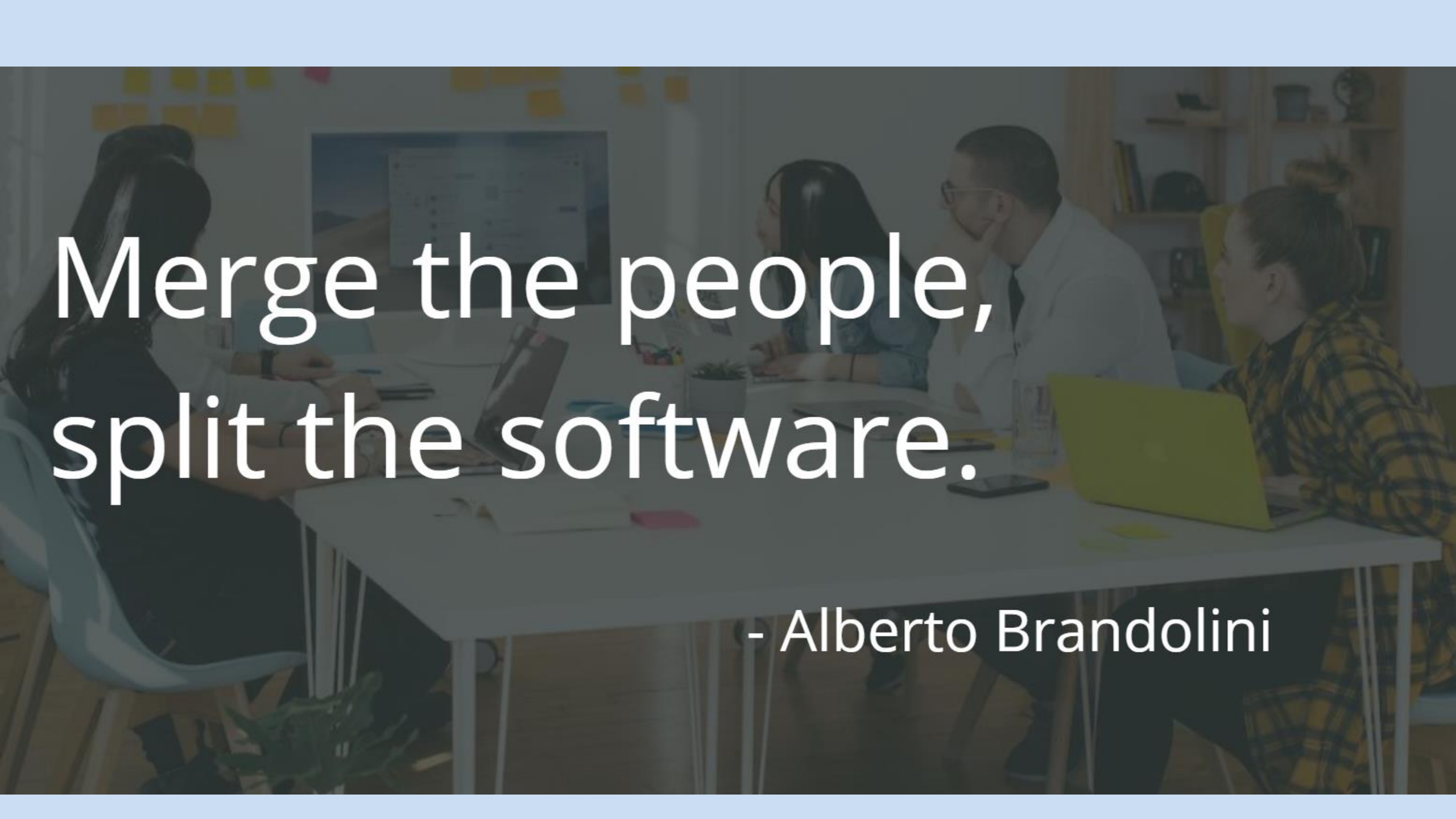


6-8 NOV 2019
Alberto Brandolini

100,000 Orange Stickies Later

Scandinavian Developer Conference
Malmö, Sweden

oredev.org



Merge the people,
split the software.

- Alberto Brandolini

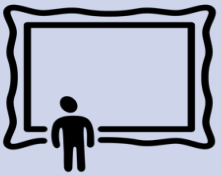


What is the **Storming**
of EventStorming?



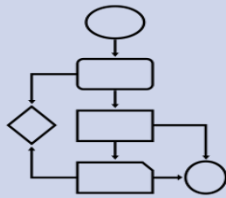


Types of EventStorming



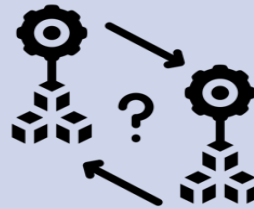
Big Picture EventStorming

- Goal: Generate shared understanding
- Used for discovery



EventStorming for Process Modeling

- Goal: Address the Hotspots
- Used for exploring a process
- Typically limited to a single end-to-end process



EventStorming for System Design

- Goal: Evaluate a system and propose a solution
- Design a solution
- Be aware of alternatives
- Hide unnecessary complexity from the users



EventStorming for People Experience

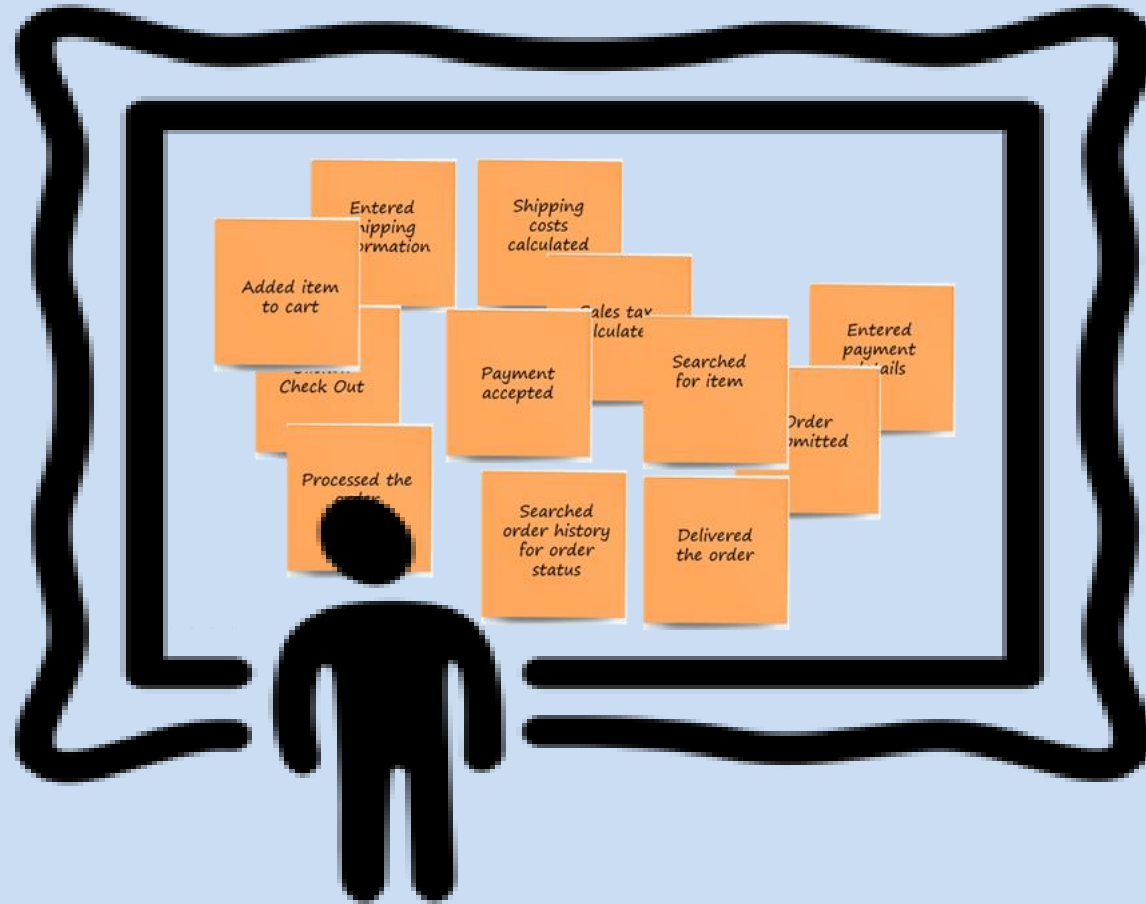
- Goal: Understand customer/user/persona interactions and experiences



EventStorming for Refactoring

- Given an existing solution, use EventStorming to identify what is available and potential refactor points

Big Picture EventStorming



Nobody knows
the whole story





Ask
questions
about *the*
unknown



Share
knowledge
to build a
**shared
understanding**



EventStorming in Companies

Small and Large





Startups

- Fewer silos, if any
- People wearing multiple hats
- People who are more likely to admit they don't know
- May find company gaps where no one knows
- May be easier to schedule people





Corporations

- Consultant/outside facilitator may find it easier to get the key stakeholders together
- ***Discovering key impediments, solving key problems***



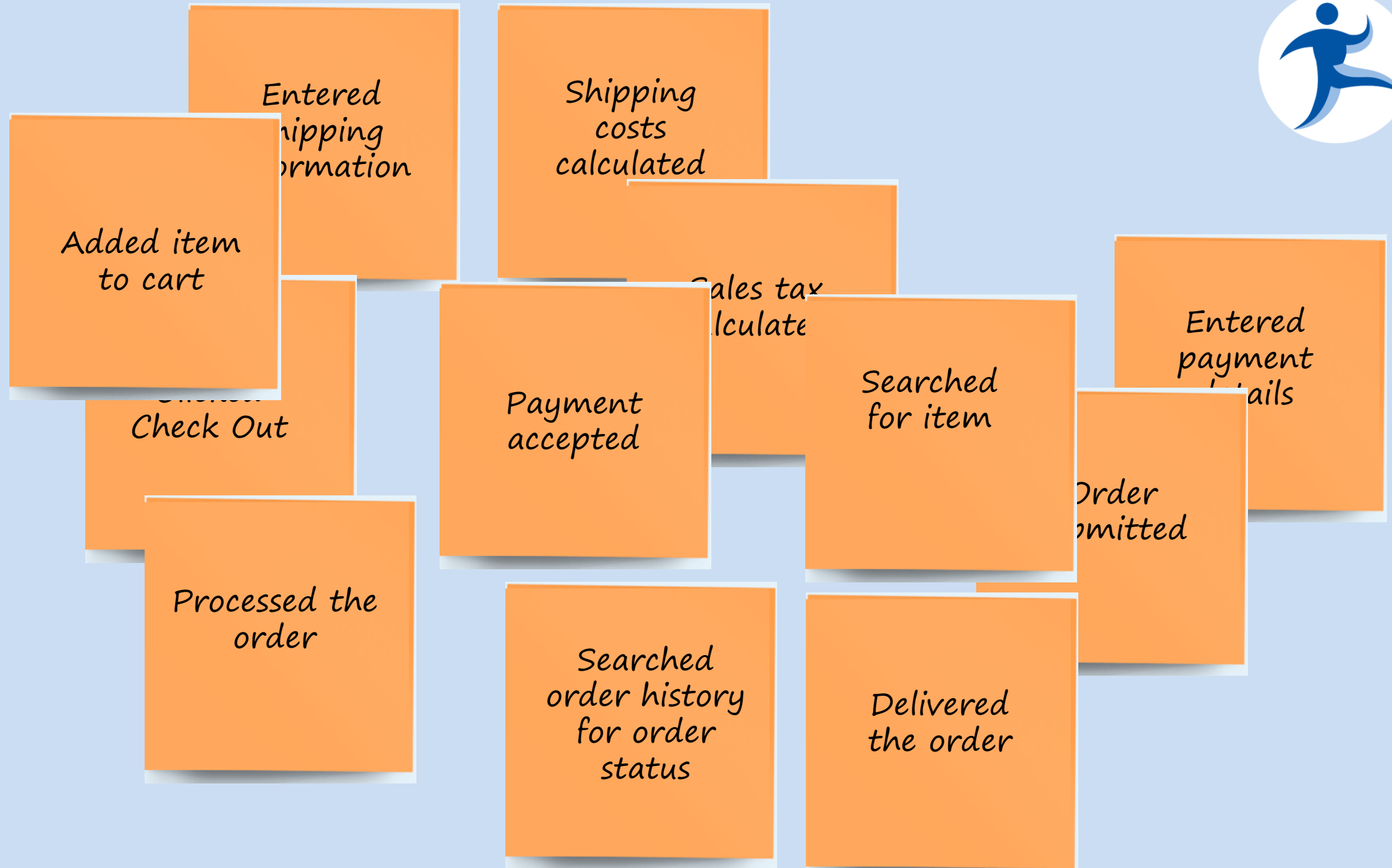
Big Picture EventStorming Process



Step 1: Chaotic Exploration

Get people talking and writing events in past tense





Entered
shipping
information

Shipping
costs
calculated

Added item
to cart

Sales tax
calculate

Entered
payment
details

Searched
for item

Payment
accepted

Order
omitted

Processed the
order

Searched
order history
for order
status

Delivered
the order

Check Out

Step 2: Deduplicate

Find commonalities and dedup ideas





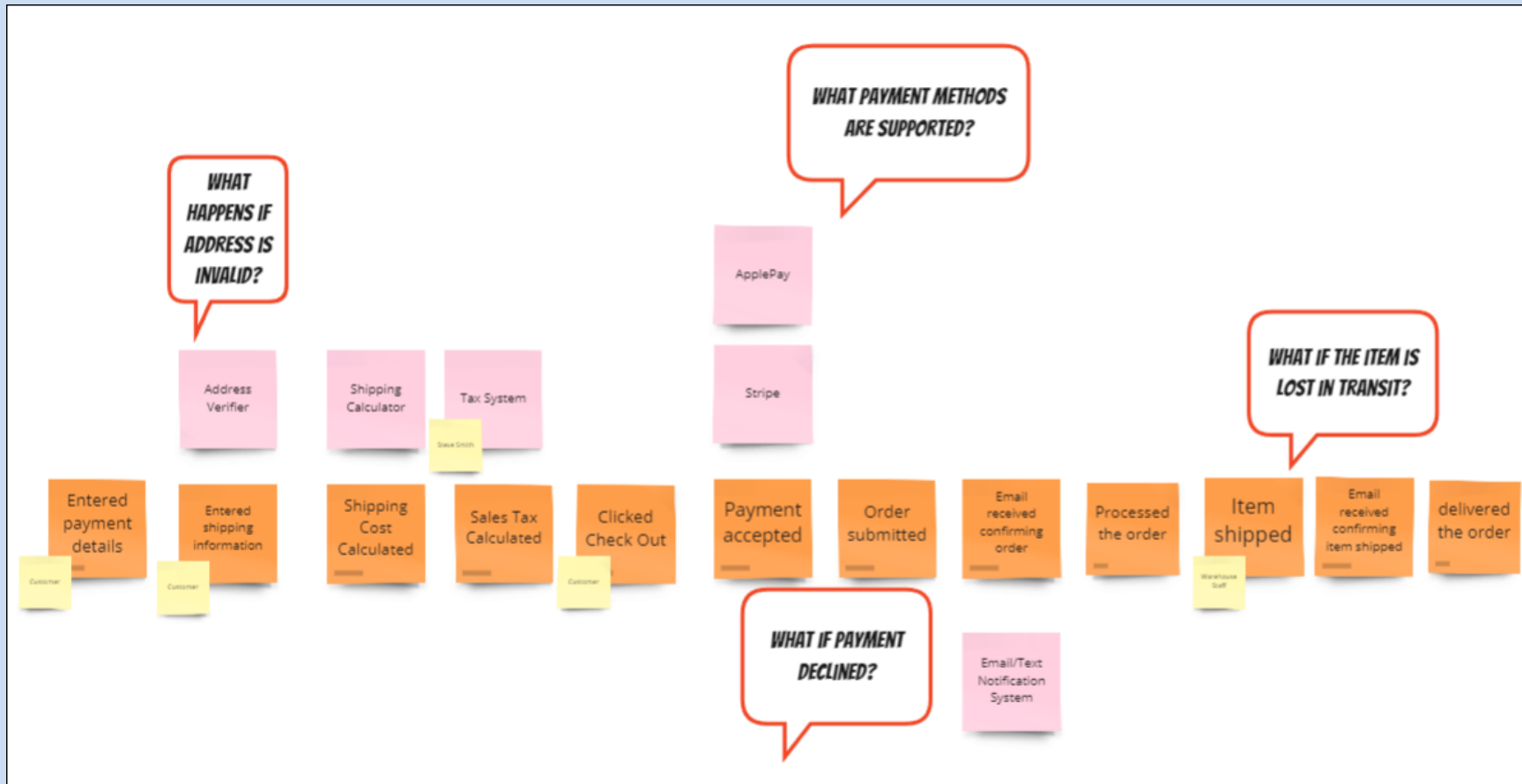
Step 3: People and Systems



Step 4: Identify Areas to Explore



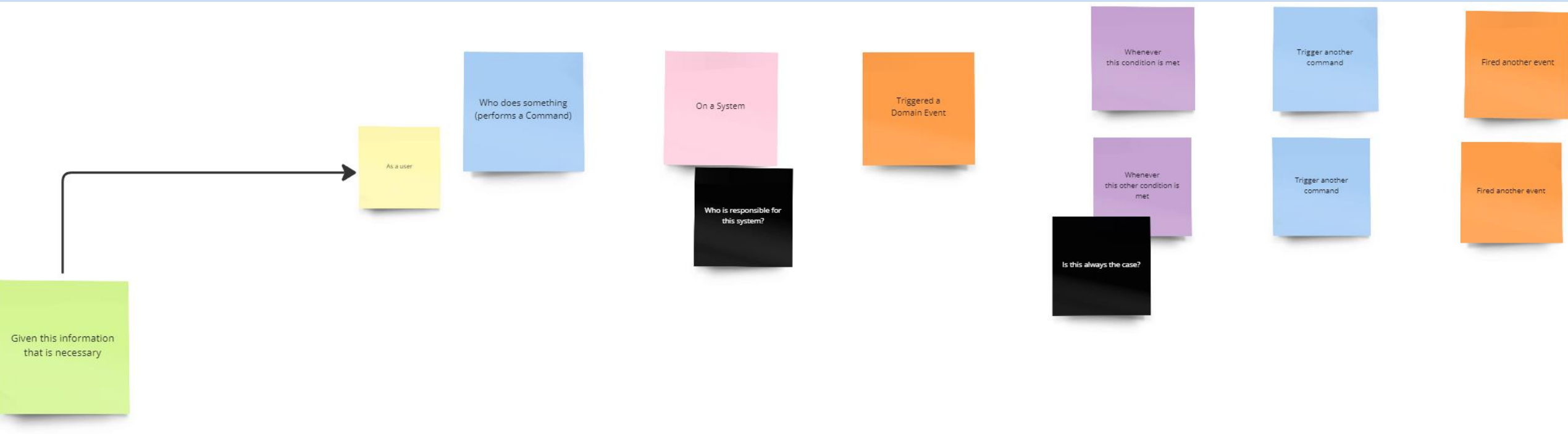
Sticky Notes in EventStorming





EventStorming Grammar

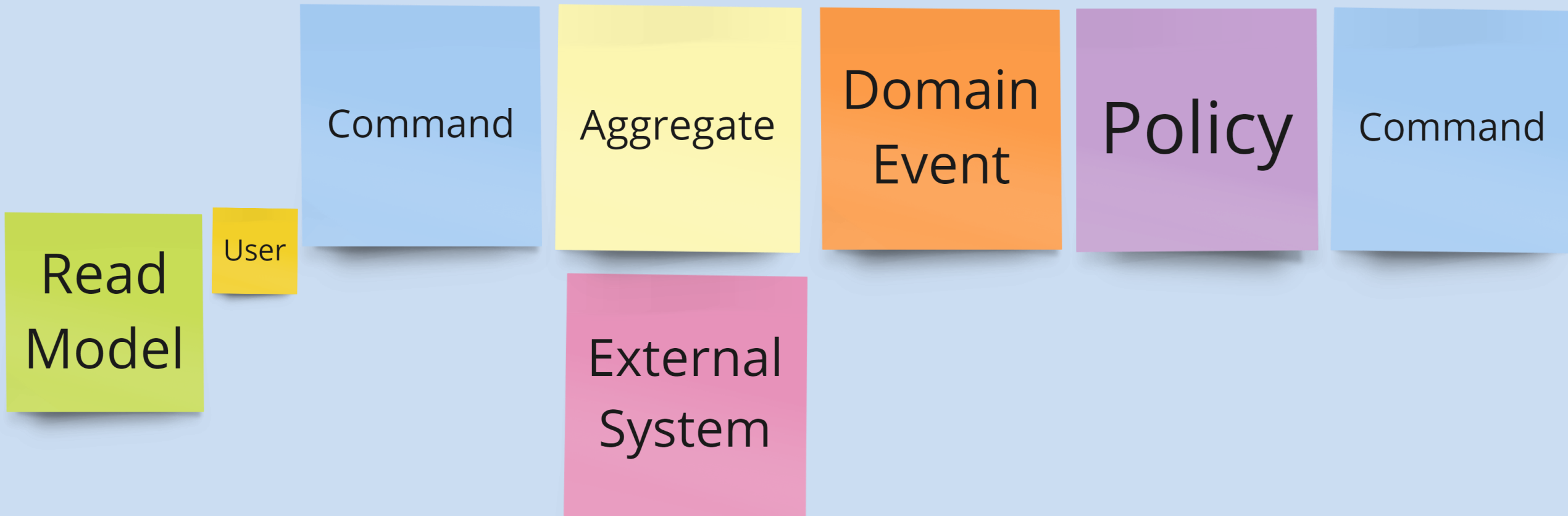
- **Conversations** with sticky notes
- Eventually structured to follow a particular **grammar**





Color-Puzzle Thinking

- Source: Alberto Brandolini





Domain Events

Domain
Event

- Orange sticky note
- Verb in **past tense**
- Answers “What happened?”



Commands

Command

- Light blue sticky note
- Imperative
- Issued by a user
- Triggers events



Users / Roles / Personas

User

- Small yellow sticky note, possibly labeled stick figure
- May be a generic representation
- May be a specific persona when specificity is known



Policy / Process

- Lilac (light purple) sticky note
- “Whenever”
- Under what conditions
- May include a related role

Policy

User



External Systems

- Light pink sticky notes
- Systems external to the one being discussed
- May be external as in third-party, outside the company
- Not always third-party apps

External
System



Issues / Hot Spots / Problems

Hot
Spot

- Red or purple
 - Sometimes shown in screenshots as Black – depending on the sticky notes available in whatever sticky note app is available
 - Also seen in screenshots as a speech bubble
- What are **the pain points**?
- What are **the unknowns**?



Aggregates

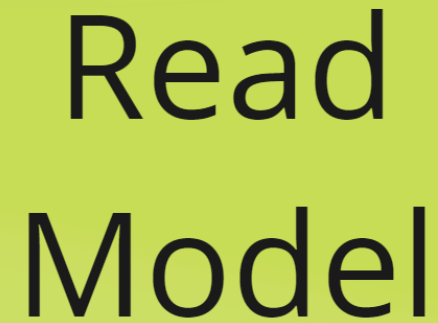
Aggregate

- Yellow sticky note
- Used to **group objects** for the purpose of data changes



Views /Queries / Read Models

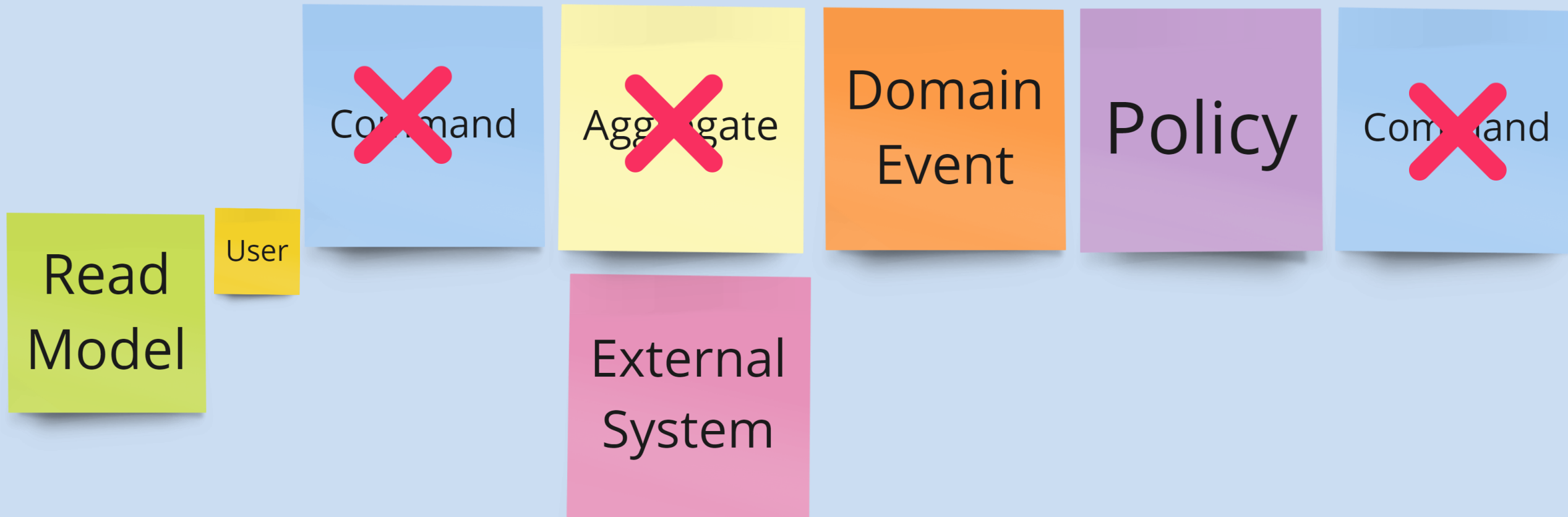
- Green sticky notes
 - Data needed for a user to make a decision
 - Do not get wrapped up in reusability
1. Understand the decision
 2. Define necessary data
 3. Make it happen
- Lives in the bounded context where the decision is happening



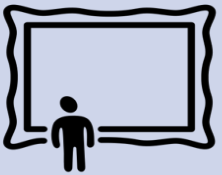
Read
Model



Big Picture EventStorming Sticky Notes

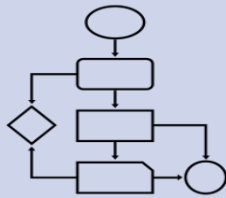


Types of EventStorming



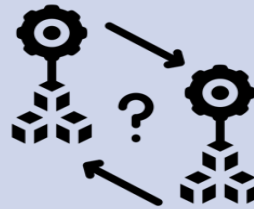
Big Picture EventStorming

- Goal: Generate shared understanding
- Used for discovery



EventStorming for Process Modeling

- Goal: Address the Hotspots
- Used for exploring a process
- Typically limited to a single end-to-end process



EventStorming for System Design

- Goal: Evaluate a system and propose a solution
- Design a solution
- Be aware of alternatives
- Hide unnecessary complexity from the users



EventStorming for People Experience

- Goal: Understand customer/user/persona interactions and experiences



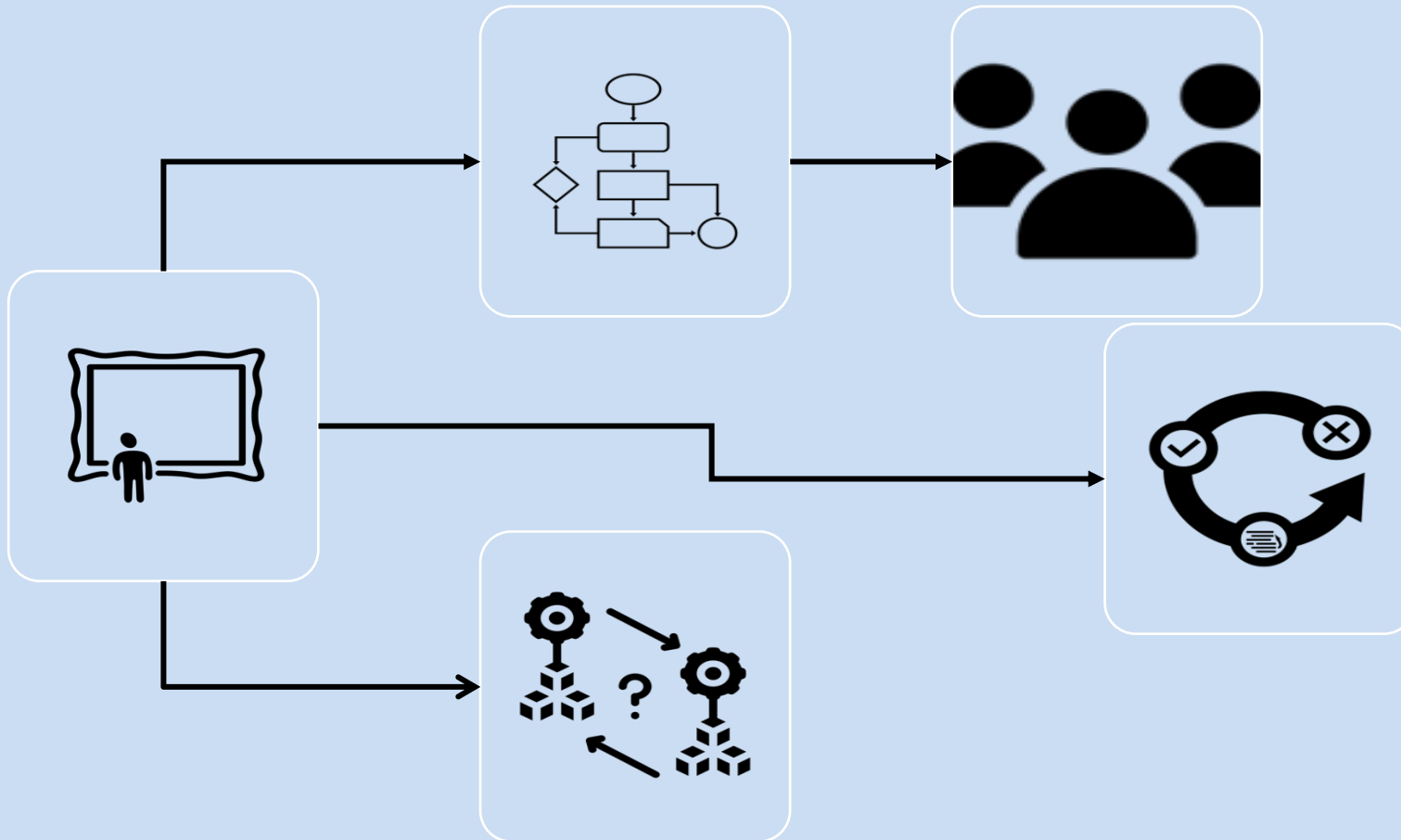
EventStorming for Refactoring

- Given an existing solution, use EventStorming to identify what is available and potential refactor points



Common Flow of EventStorming

- How do the EventStorming sessions flow into each other?





Transitioning Between Big Picture and Process Modeling

- Processes uncovered during discovery
- Deep dive into a process

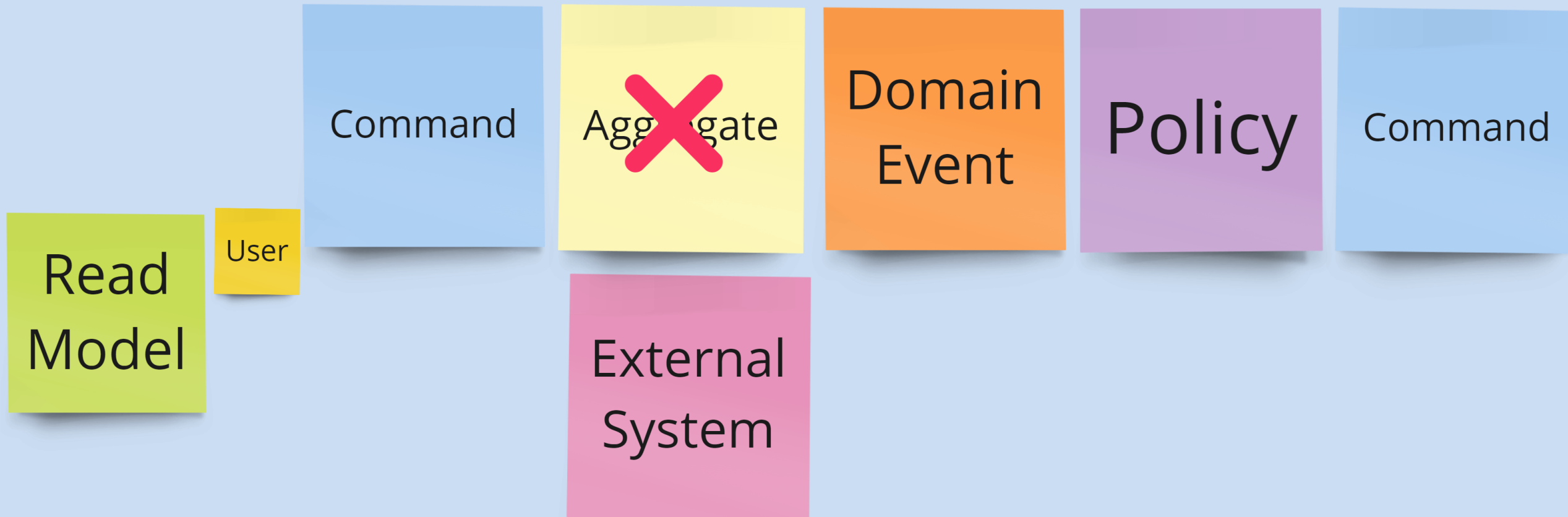
QUESTIONS?
PAIN POINTS?

EventStorming for Process Modeling





Process Modeling EventStorming Sticky Notes





EventStorming for Process Modelling

- Collaborative process modeling
- Limited scope – single end-to-end process
- Smaller number of people
- Use the cooperative game principle – the problem is the opponent and everyone in the room must work together to defeat it
- May need to give up technical or specialty jargon to get everyone on same page

[More on EventStorming for Process Modelling](#)



Game Goals for Process Modeling

1. All process paths are **completed**.
2. Every possible **Hotspot** is addressed.
3. All the stakeholders involved in the process are **reasonably happy**.
4. The **color grammar** is preserved with no holes or gaps.

QUESTIONS?
PAIN POINTS?



Grammar for EventStorming for Process Modeling - Events


- Orange sticky notes
- Triggered by a **user interaction**
- Triggered by **an external system**
- Triggered by **time** (temporal)
- Triggered as a cascading reaction

*Meal decision
made*



Grammar for EventStorming for Process Modeling – Commands/Actions

- Blue sticky notes
- Also **intentions** or **user decisions**
- Commonly triggers more **events**



Places order
with the
server



Grammar for EventStorming for Process Modeling – People

- Yellow sticky notes of stick figures
- Sometimes smaller yellow sticky notes
- Can also be used for **roles, actors, personas, and concrete examples of people**





Grammar for EventStorming for Process Modeling – External Systems

- Pink sticky notes

Staff
Scheduling
System

Inventory
System

Reservation
System

Authentication
System



Grammar for EventStorming for Process Modeling – Hot Spots

- Red or purple sticky notes
- Black sticky notes
- Comment bubbles
- **Something that calls attention and stands out**

***HOW ARE
THE SPECIALS OF THE WEEK
DETERMINED?***

***WHAT PAYMENT
METHODS ARE
SUPPORTED?***

***WHAT IF THIS STEP
FAILS?***



Grammar for EventStorming for Process Modeling – Policies

- Lilac sticky notes
- Capture **reactive logic** to processes
- Business decisions
- Organization reaction to given events
- ***Whenever*** events ***then*** commands

Whenever
the meal is
complete



Process with Policy + Command + Event

Whenever
the meal is
complete

Calculate
the
check

Line
items
Summed



More of the Process

Line
items
Summed


Calculate
tax

Tax
Calculated



Grammar for EventStorming for Process Modeling – Read Models

- Green sticky notes
- **Information needed to make a decision**



- Item Name
- Ingredients
 - Price



Wireframes and Sketches in Process Modeling EventStorming

- Visual aids are welcome
- If they add value, be explicit



Team Dynamics

- **The Pragmatic:** will know which path delivers more value and why
- **The Driller:** will come up with alternatives and “What if...?” scenarios
- **The Empathic:** will care about emotions & feelings



Revelations in Talking with Participants

- I started working here recently. I finally understand what they do here!
- This is where everything is broken.
- This never really works.
- It takes forever to complete this step.

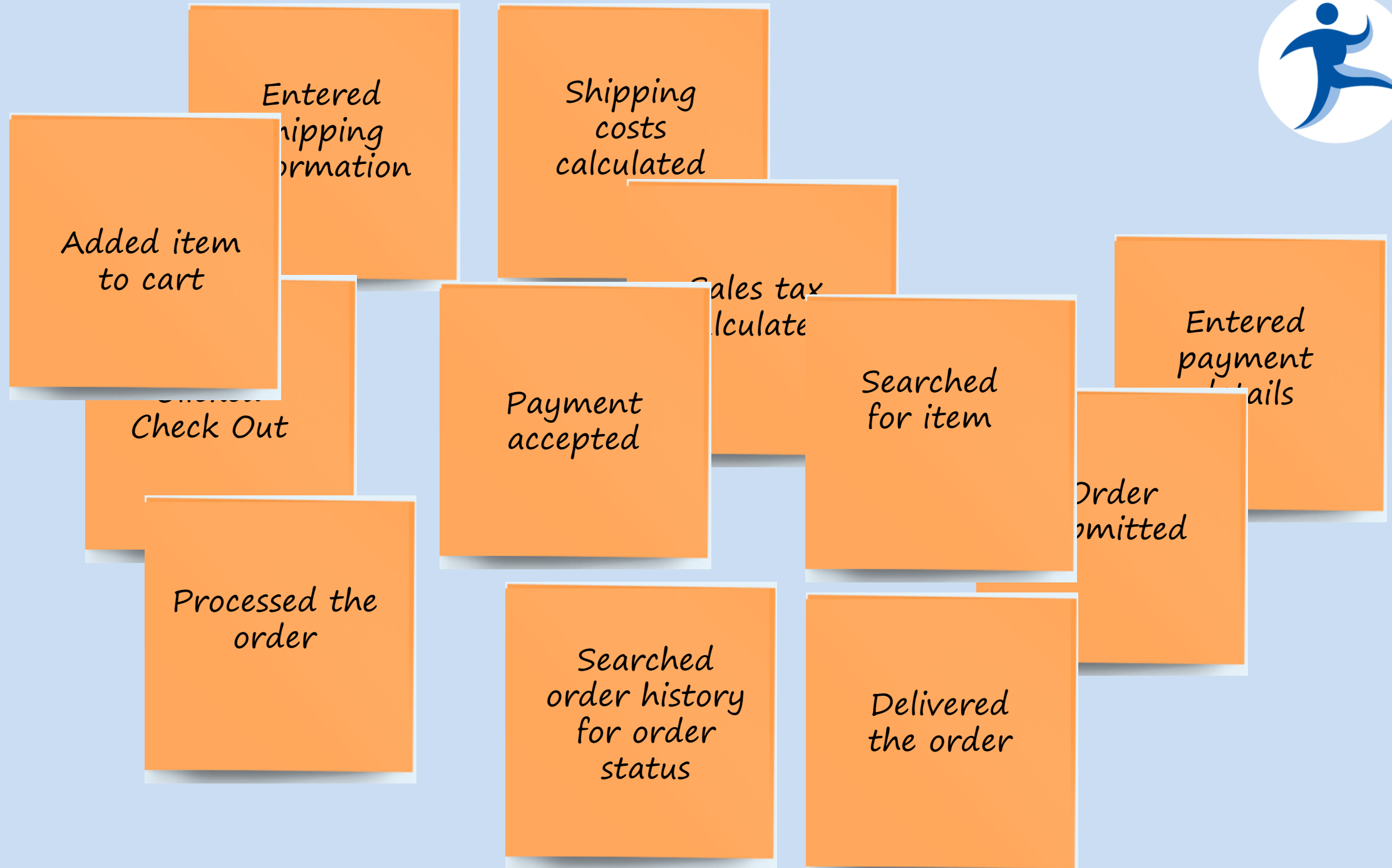
Process Modeling EventStorming Process



Step 1: Chaotic Exploration

Get people talking and writing events in past tense





Added item
to cart

Entered
shipping
information

Shipping
costs
calculated

Sales tax
calculate

Searched
for item

Entered
payment
details

Order
submitted

Delivered
the order

Searched
order history
for order
status

Processed the
order

Check Out

Payment
accepted

Step 2: Deduplicate & Timeline

Find commonalities and dedup ideas





Step 3: People and Systems



Step 4: Identify Pain Points & Possible Resolutions





EventStorming for System Design

- Used to help implement system features that solve a specific problem
- Designing a solution
- In the end, agree on a solution
- Make alternatives visible
- Bigger egos – systems designers, software architects, senior devs
- **Hide unnecessary complexity**



EventStorming for Refactoring – Basic Sticky Notes

What
happened?

Domain Events

Who
uses the
system?

Users/Roles/Personas

What
systems
are
involved?

Systems



Identify Hotspots

QUESTIONS?
PAIN POINTS?



EventStorming for Refactoring – Additional Sticky Notes

What
triggers
the event?

Command

Large
Grouping of
a Business
Problem

Aggregate



Resources

- [EventStorming](#) by Alberto Brandolini
- [The EventStorming Handbook](#) by Paul Rayner
- [EventStorming.com](#)
- [50,000 Stickies Later](#) – Alberto Brandolini (Explore DDD 2017)
- [100,000 Stickies Later](#) – Alberto Brandolini (Øredev 2019)



Thank you!



/in/sadukie



sarah.dutkiewicz@nimblepros.com



<https://bit.ly/contact-np>