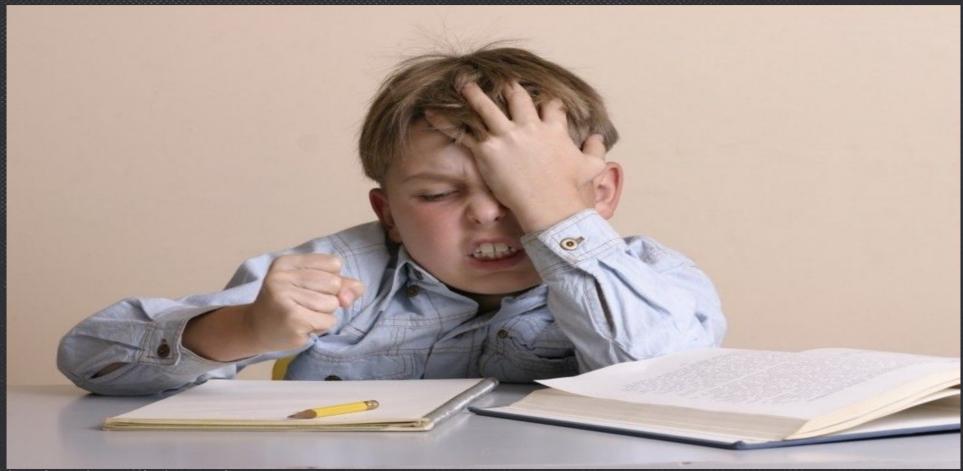
# BLENDING PRODUCT THINKING WITH ARCHITECTURE

Joel Tosi

Slides: https://www.dojoandco.com/speaking



## MY PERSPECTIVE



@joeltosi @dojoandco

# EXPECTED OUTCOMES

Simple Visuals You Can Use Now

Less 'What Architecture' and More 'When'

Leverage Product Context to Ground Decisions

Ideas on Documenting Decisions

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# CONTEXT & THE WIKI



"Ward Cunningham" by Joi is licensed under CC BY 2.0

# BEHIND EVERY ARCHITECTURE DECISION IS A PRODUCT ASSUMPTION

## WHAT IS THE PROBLEM?

# WHAT IS ARCHITECTURE?

Web

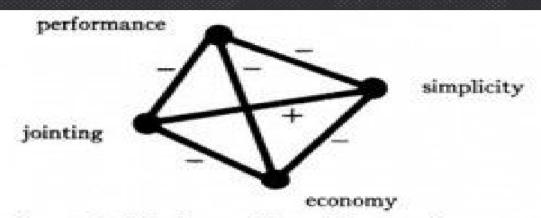
API

Logic / Calculations

Fast Data

Slow Data

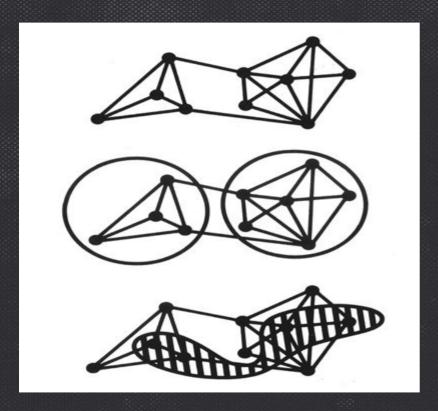
# WHAT IS ARCHITECTURE?



This is a typical design problem; it has requirements which have to be met; and there are interactions between the requirements, which makes the requirements hard to meet. This problem is simple to solve. It falls easily within the compass of a single man's intuition. But what about a more complicated problem?

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# WHAT IS ARCHITECTURE?



Reflection of System Dependencies

Optimal decomposition / Grouping

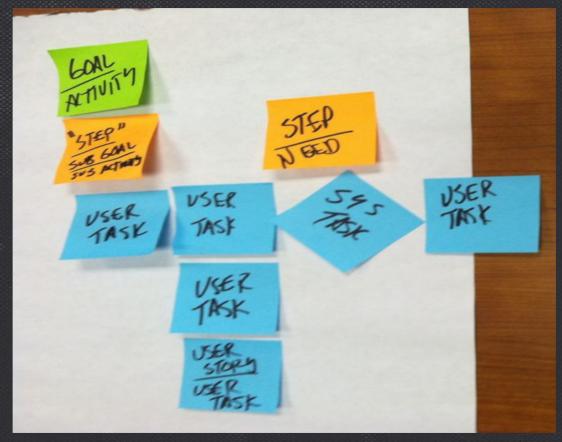
Biased simplification - mereotopology

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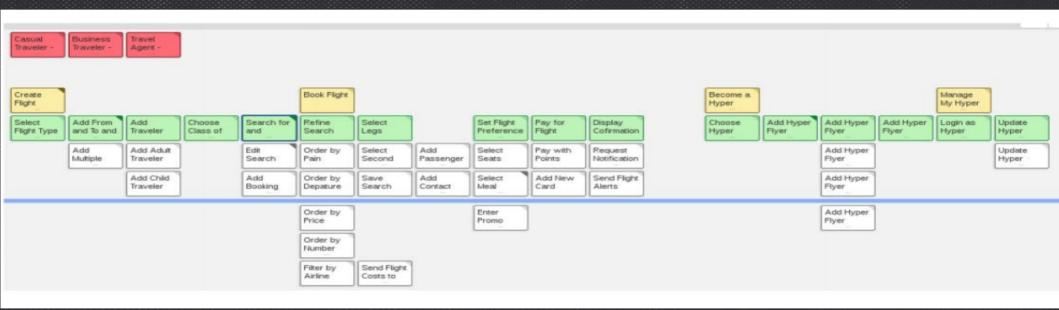
# ARCHITECTURE IS ABOUT FIT WITHIN CONTEXT

# USING PRODUCT TO GROUND ARCHITECTURE

## YOU ARE ALL CERTIFIED



#### ALL THE POSSIBILITIES



#### FAMILY TRAVELING



#### **BUSINESS TRAVELER**

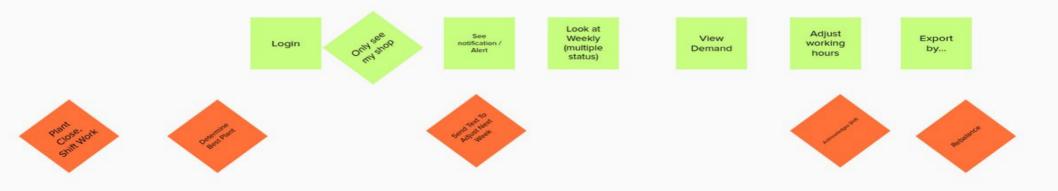


#### **ADVENTURER**

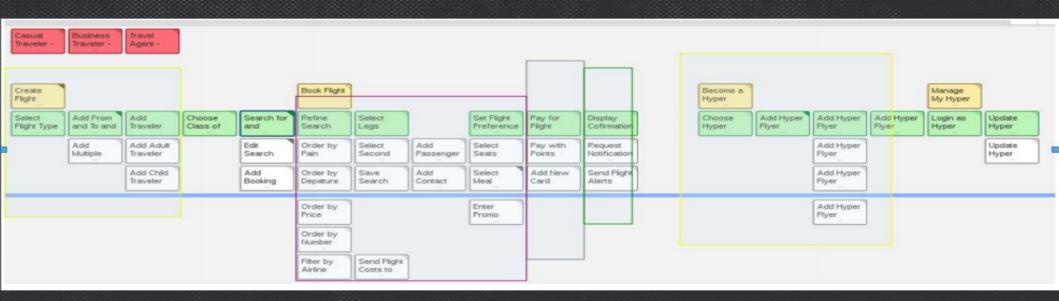


#### HANDLING EVENTS

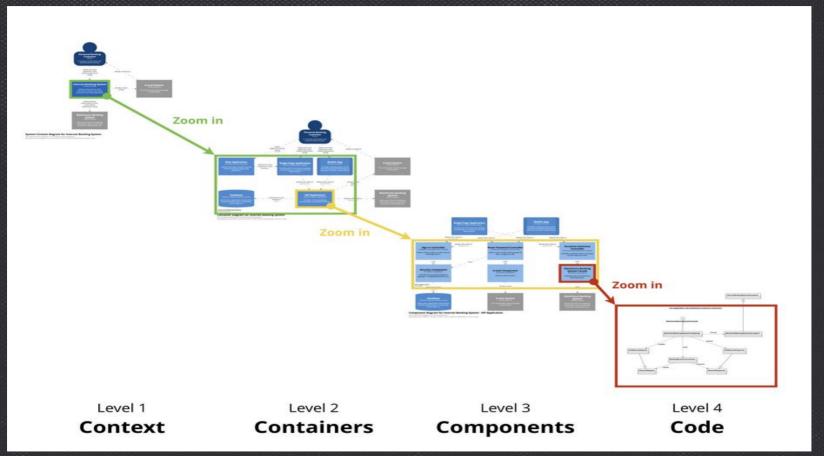
#### Gary wants to know if he is over / under at a plant



#### **MICROSERVICES**

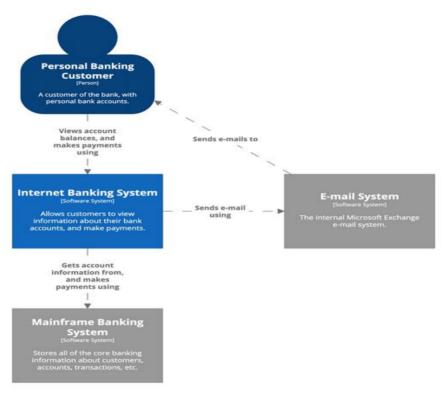


#### DOESN'T FEEL ARCHITECTY



https://c4model.com/

#### DOESN'T FEEL ARCHITECTY

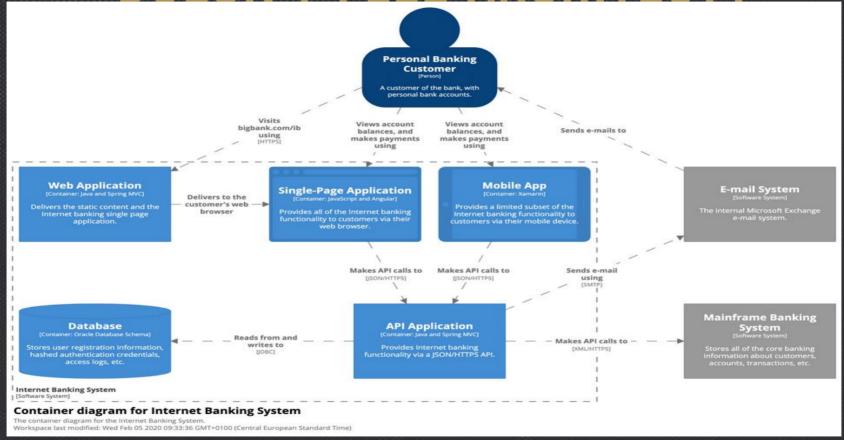


#### System Context diagram for Internet Banking System

The system context diagram for the Internet Banking System.

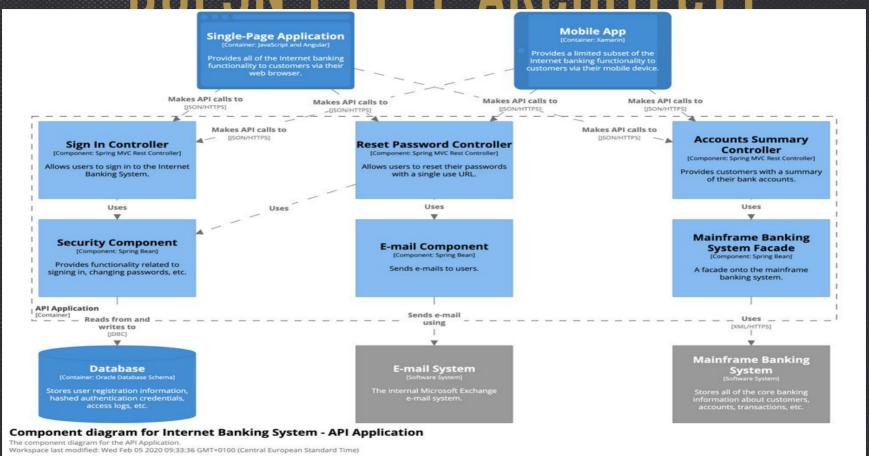
Workspace last modified: Wed Feb 05 2020 09:33:36 GMT+0100 (Central European Standard Time)

#### DOESN'T FEEL ARCHITECTY



https://c4model.com/

#### NNFSN'T FFFI ARCHITECTY



https://c4model.com/

#### YOUR JOB IS NOT STICK FIGURES AND BOXES

# PROVIDE MODELING BASED IN CONTEXT, HELP PEOPLE REASON, WRITE LESS

## EXPLORE WHAT TO MOVE

#### DETERMINING DECISION POINTS

Known Dependent Isolated

Uncertain

#### SAMPLE MARKET DATA

Logging Known Framework Message Matching Algorithms Format Authentication Recovery API Entitlement Dependent Isolated Containers Caching Message Data Latency Segregation Partners Mediums Uncertain

## KNOW WHERE YOU ARE

EXPLORE **Credit – Kent Beck** 

### IN ACTION

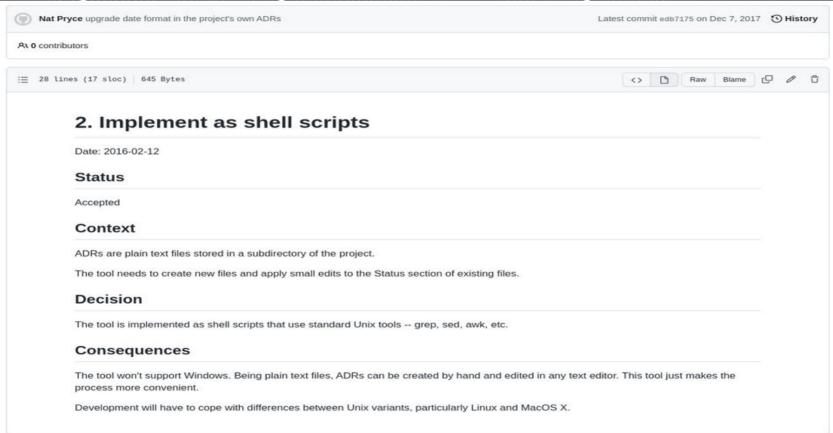


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# DOCUMENTING THE ASSUMPTIONS OF YOUR ARCHITECTURE

#### ARCHITECTURE DECISION RECORDS

https://cognitect.com/blog/2011/11/15/documenting-architecture-decisions



# TRY THIS

Document Product Assumptions You Are Making

Document Technical Assumptions You Are Making

Think of 3 Ways You Might Be Wrong

For Each Learning Opportunity, What Would Change?

# OUR JOB

Take a World of Possibilities...

Apply Proper Product Understanding and Constraints...

To Deliver Maneuverable Systems

That Bring Joy

## RECAP

Be aware of models and dependencies

Use Product Discussions to avoid architecture bias

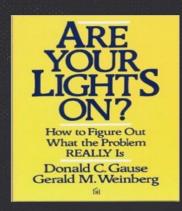
Use Journeys to find when decisions can be made

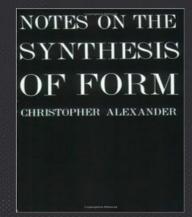
Understand parts of the system need to be right / emerge

# RECOMMENDED READING

Jerry Weinberg – Are Your Lights On?

Christopher Alexander -Notes on the Synthesis of Form





-JEFF PATTON, AUTHOR OF USER STORYMAPPING

Transforming a company's digital product development capabilities is a monumental task. Keeping teams up to date with modern software engineering and product discovery practices is daunting enough, but when you add in adopting agile and lean methods, operating model changes, and cultural transformation, it's easy to see how even the most seasoned leaders feel completely overwhelmed.

Traditional approaches to training—from one-day workshops to week-long trainings—fail to have the impact you want. Instead of transformation, you get piecemeal improvements that don't lead to significant change.

Here's the truth: if you want learning that sticks, you need a dojo.

In Creating Your Dajo, experienced dojo coaches Joel Tosi and Dion Stewart guide you through creating a dojo an immersive learning environment— within your organization. The dojo enables your teams to learn new skills within the context of doing their real-world work. You'll create a thriving product development culture where team members feel empowered to solve their own problems. Your organization will improve the quality of the products they deliver, reduce delivery cycle time, and create innovative products with better product/market fit.



Dion Stewart and Joel Tasi are the co-founders of Doje and Co.

DIGN STEWART has counted software tearts of Fortune 50 companies to multiple damains over the past beenty years healthcare, finance, investment harking, intol, entertainment, and more. Given his developer's background and transformation consulting experience, Durn is a both a highly effective coach and a sought after speaker. He's given talks at GCos, Agile Development West, Craft Cost, and DCO Europe. He lives in rural Perrophrania with his wife and enjoys playing and recording music.



JOEL TOSI worked as an engineer and architect of the Chicago Mercantile Exchange, leaving after ten years and hickstarting their evolution. He then spent a few years as the lead North American architect for Rod Hat Middleware. Me's been coaching software fearns and organizations on improving product development copubilities for fifteen years. An in-demend speaker, Jeef has spokes at the Agire Alliance Conference, DevOps Days, SQE Agite Development West, and Dev Nexus. He lives in Chicago with his wife and three children. DION STEWART & JOEL TOS

# CREATING YOUR DOJO

#### CREATING YOUR

Upskill Your Organization for Digital Evolution

**DION STEWART & JOEL TOSI** 





#### WHAT ARE YOUR QUESTIONS?

# THANK YOU Joel Tosi

Slides: https://www.dojoandco.com/speaking

