



Data Conversation - Reinventing the Analysis Interface

Tweet us @zelrosAI !
Say Hi! at christophe@zelros.com

Christophe Bourguignat - @chris_bour



Our Story



Christophe Bourguignat

CEO

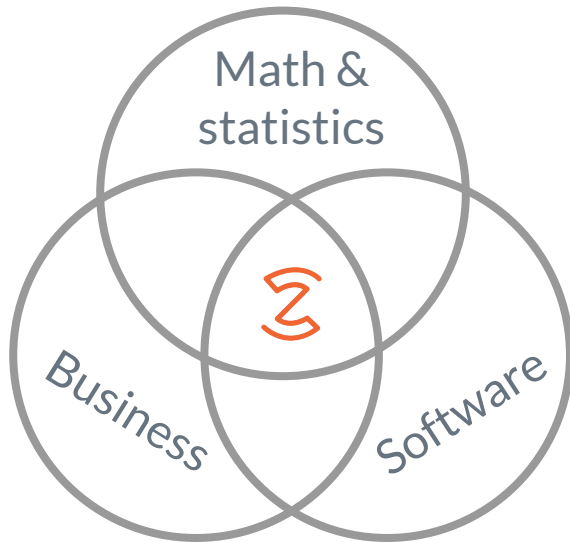
Data scientist, Machine Learning Expert, Kaggle Master



Damien Philippon

COO

Senior Consultant, Digital Transformation Expert



Fabien Vauchelles

CTO

Software Engineer, Data Extraction Expert

The Odyssey of Enterprise Data

Data
Warehouse

Big
Data

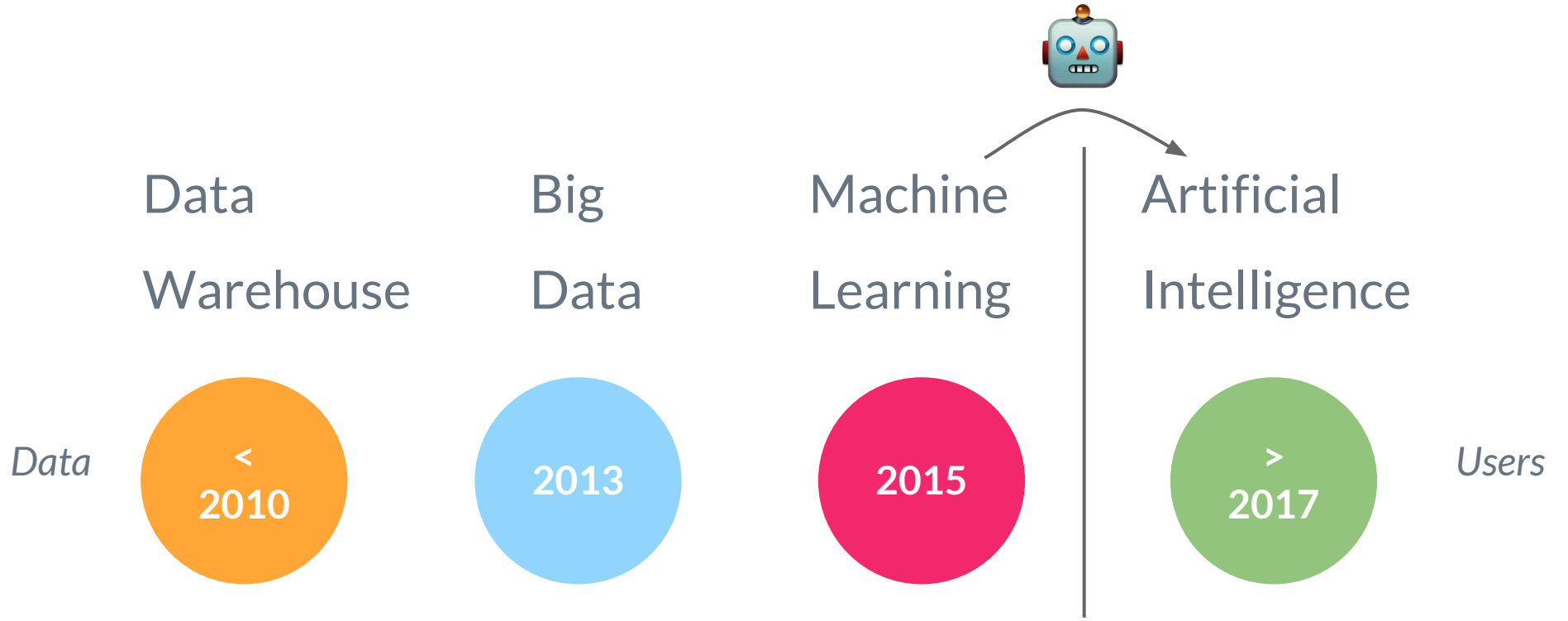
Machine
Learning


Data



Users

The Odyssey of Enterprise Data

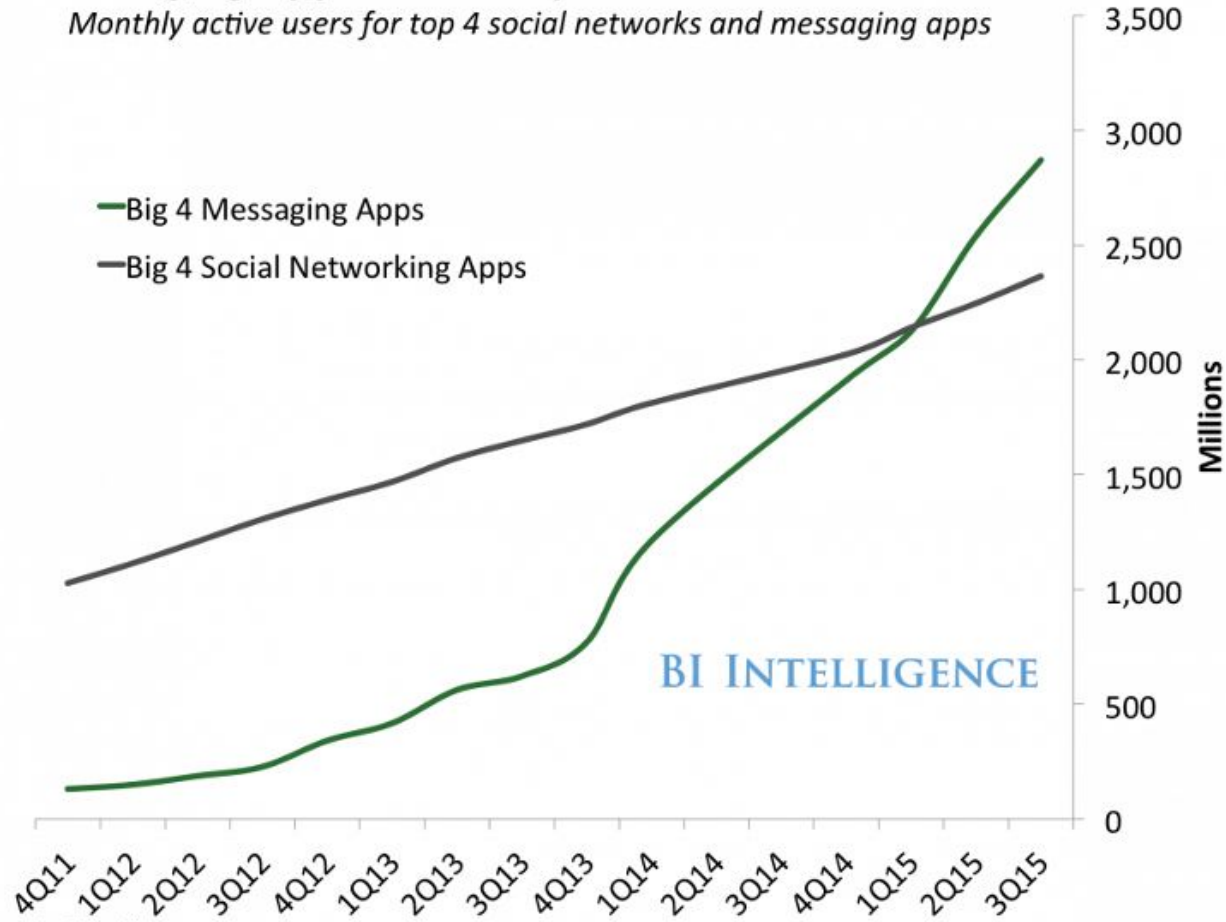




By 2018, 30% of our interactions with technology will be through “conversations” with smart machines

Messaging Apps Have Surpassed Social Networks

Monthly active users for top 4 social networks and messaging apps



Source: Companies, BI Intelligence

A large, dense crowd of people is gathered at night, filling a street or plaza. The scene is illuminated by warm, ambient lights, possibly from buildings or street lamps, creating a vibrant atmosphere. Many people are looking towards the camera or slightly away, some with their hands raised. The crowd is diverse in age and appearance. Overlaid on the center of the image is a semi-transparent orange rectangle containing white text.

The rise of Citizen Data Scientists



The background image is a blurred screenshot of a financial data table. It features columns of numbers, some in white and some in red or green, indicating positive or negative values. The numbers are arranged in a grid-like pattern, typical of a spreadsheet or financial report. The central orange box contains the text 'Example : Loan Risk Scoring' in white, bold, sans-serif font.

Example : Loan Risk Scoring

Example : Loan Risk Scoring

← Observed →

Client Id	Funded Amnt	Int. Rate	Annual Inc.	Age
376	12 000	9.5	75 000	34
398	23 000	12.4	110 000	49
827	17 000	7.2	45 000	29

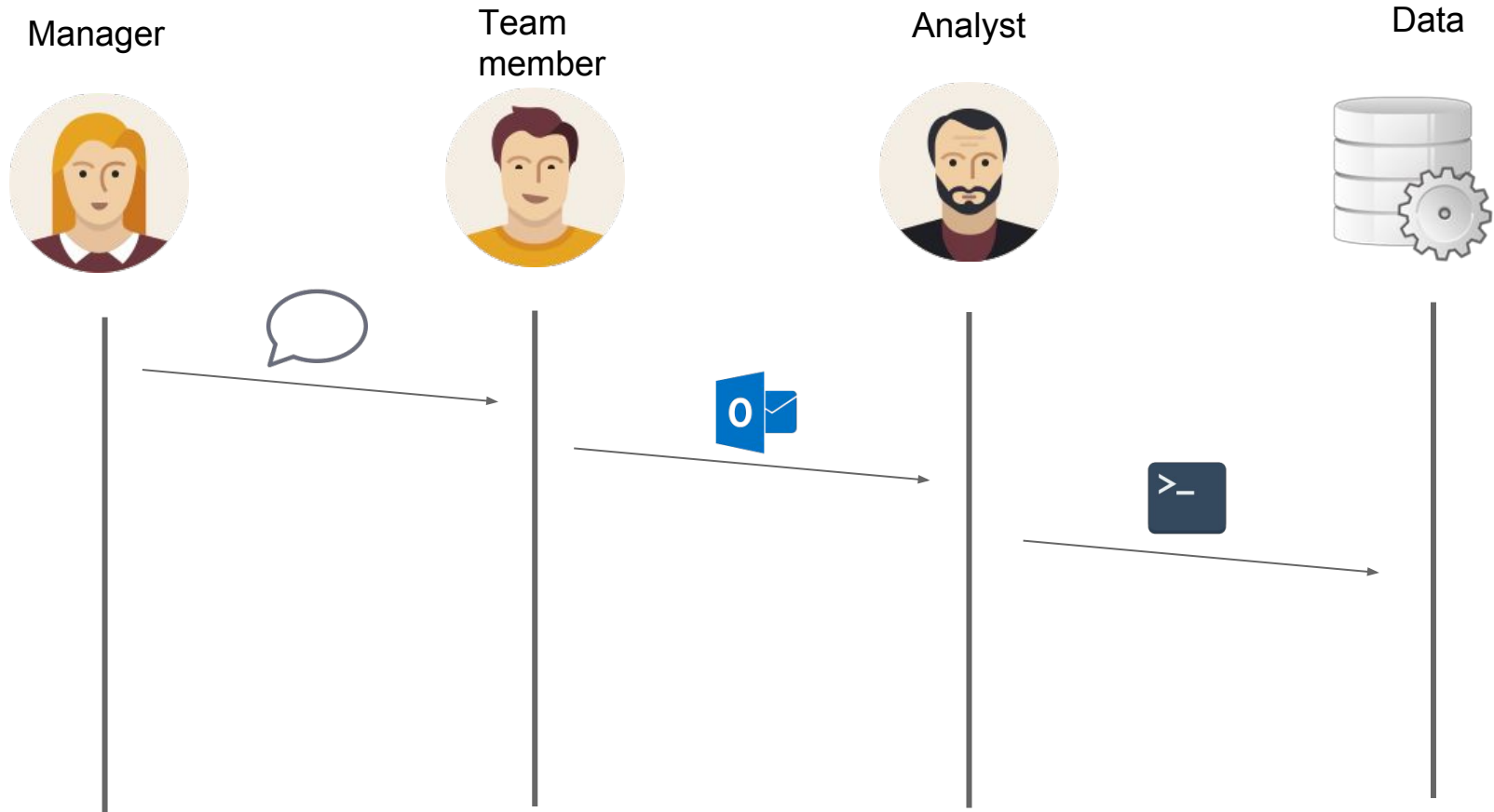
Example : Loan Risk Scoring

Observed

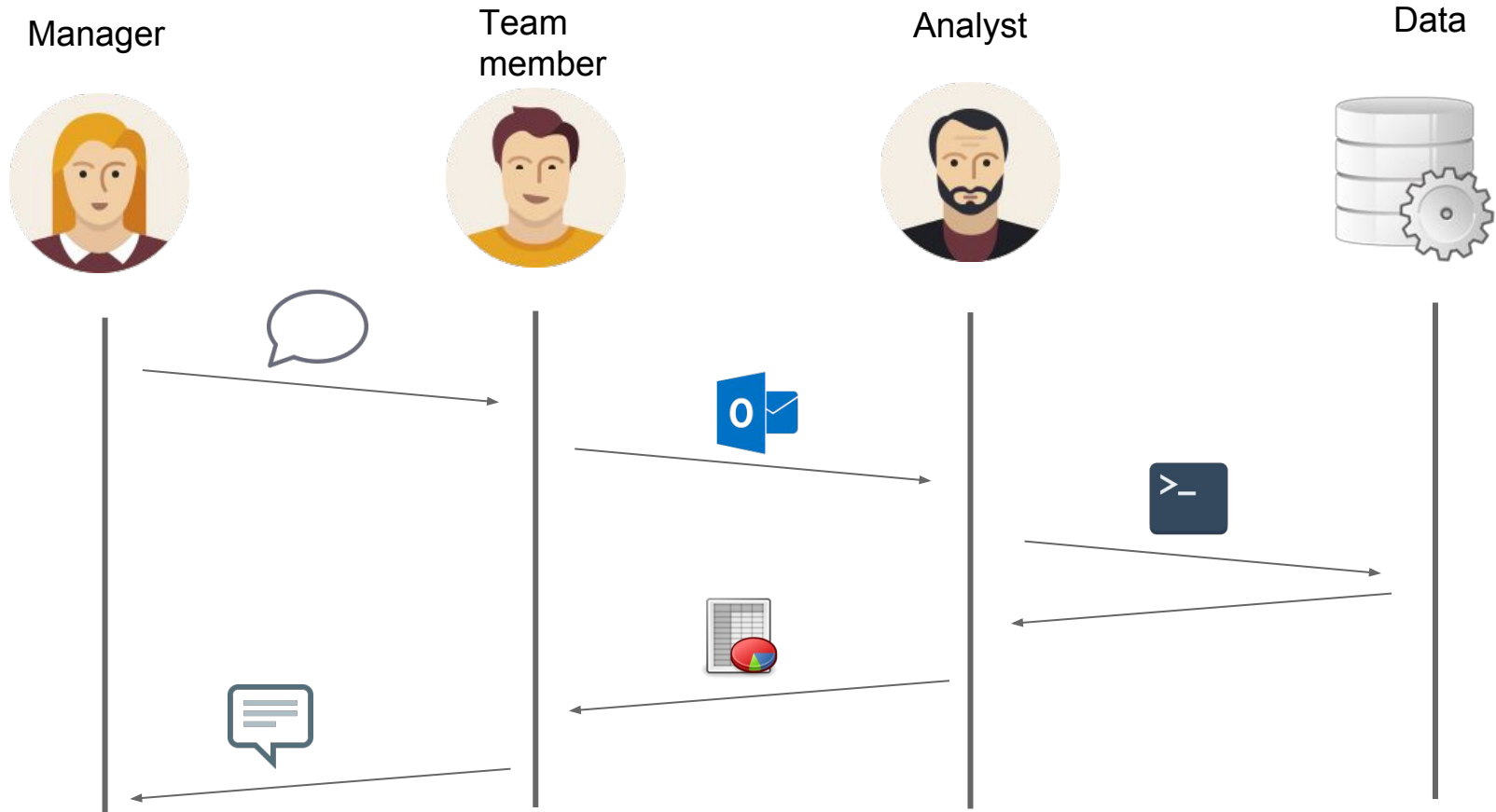
Predicted

Client Id	Funded Amnt	Int. Rate	Annual Inc.	Age	Risk Score
376	12 000	9.5	75 000	34	0.67
398	23 000	12.4	110 000	49	0.34
827	17 000	7.2	45 000	29	0.57

How It Works Today



How It Works Today



Matching The Impedance Between Humans and Data

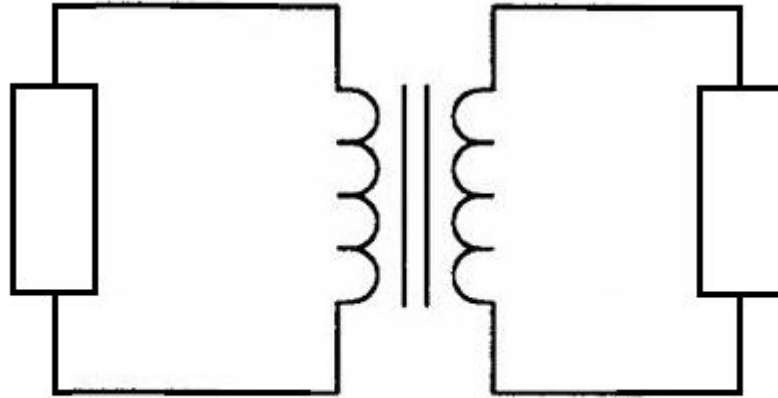
Manager



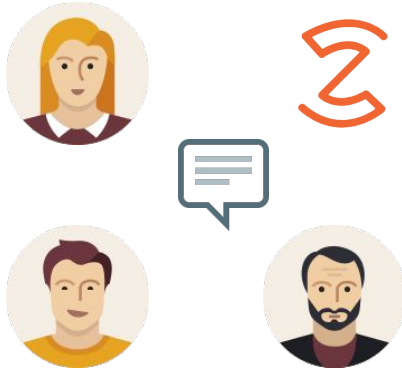
Data



?



Adding a virtual assistant into your conversations



zelros-demo

christophe

CHANNELS (4)

demo

general

random

DIRECT MESSAGES (5)

slackbot

christophe (you)

fabien

krissdemo

zelros

+ Invite people

#demo

3 members | Add a topic

Search



christophe 9:03 PM

hello



zelros BOT 9:03 PM

How can I help you ?

Currently most asked questions :

Risky Clients

Cases Number



christophe 9:04 PM

Any potential client at risk this morning ?



zelros BOT 9:04 PM

Cases at risk :

M. Alex Stanway

Funded Amnt.

12.000

Int. Rate

9,99%

Annual Inc.

75.000

Risk

0,57



you can ask me: "How to decrease risk ?"



christophe 9:04 PM

What should I do ?



zelros BOT 9:05 PM

A founded amount of \$10.000 at 9% will decrease risk to 0.55. Anything else ?

Notify



christophe 9:05 PM

No, thanks !



zelros BOT 9:05 PM

You're welcome!



Message #demo



An attempt of
conversation
reference design

zelros-demo

christophe

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Message #demo



Guide



CHANNELS (4)



demo

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random

DIRECT MESSAGES (5)



♥ slackbot

● christophe (you)

○ fabien

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Message #demo



Inform with
advanced analytics
and predictions



christophe 9:03 PM

hello



zelros BOT 9:03 PM

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Notify



christophe 9:05 PM

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zelros BOT 9:05 PM

You're welcome!



Message #demo



Prescribe

(Next Best Action)

Benefits



Empower employees with data

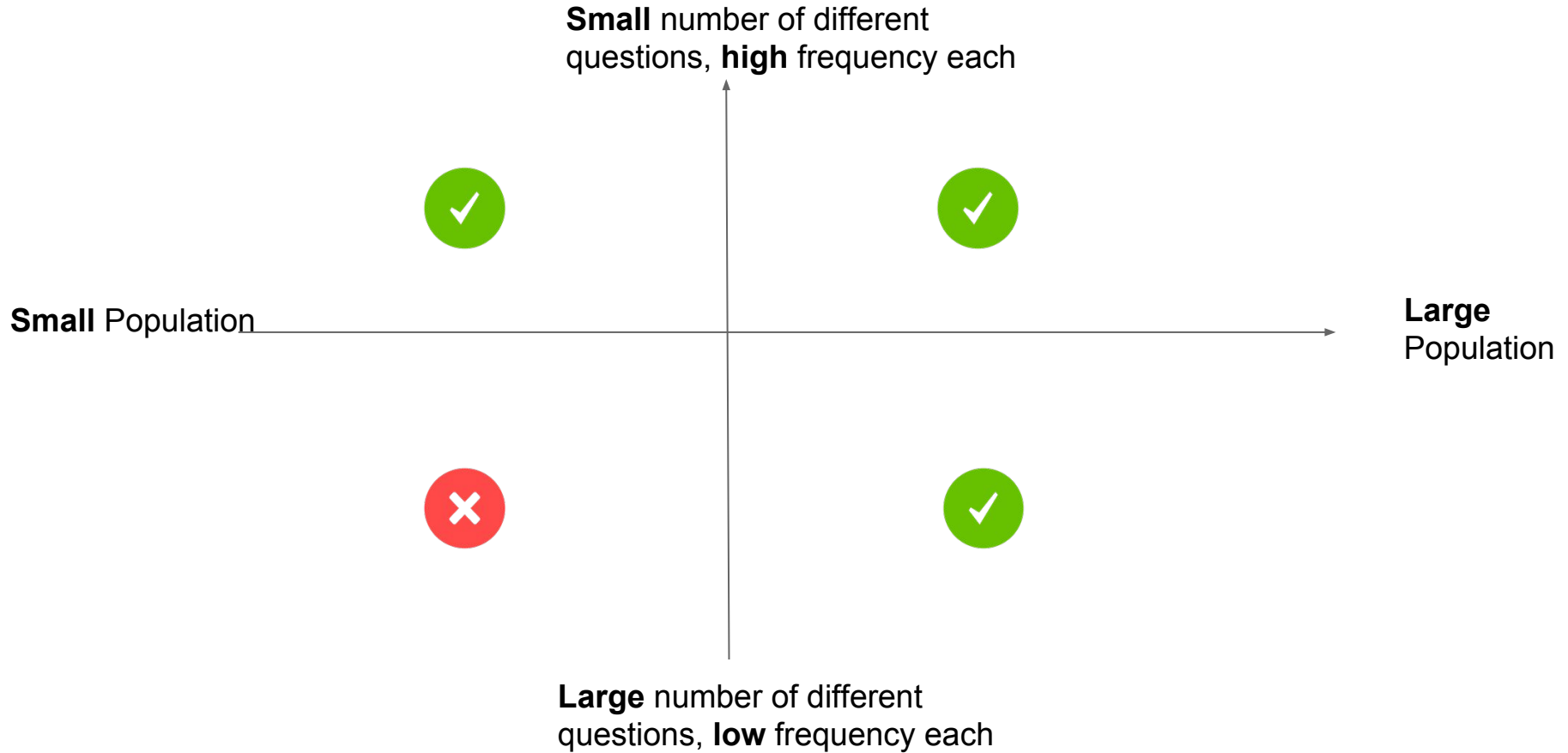
by speeding up access to strategic data within context



Keep getting close to employees concerns

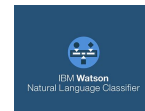
by analyzing their day-to-day expectations

Comfort Zones

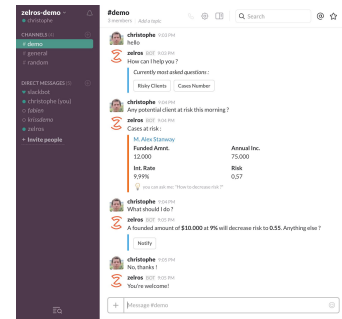
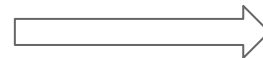
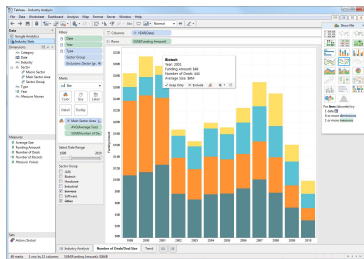


Technologies and challenges

Intent / Utterance paradigm with low number of samples



Data Onboarding and conversations building experience
'Making it as easy as a dataviz'



Custom NLP for vertical businesses



spaCy

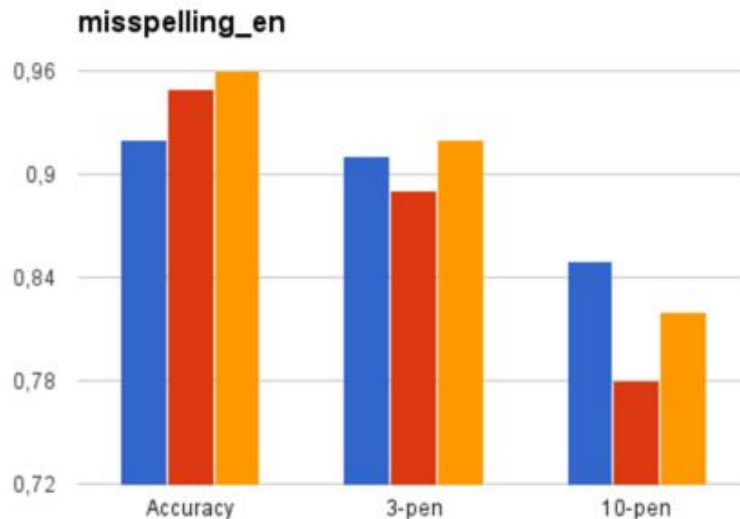
On Our GitHub : an NLP-as-a-service testbed



Zelros

Our thoughts about Data, Machine Learning and Artificial Intelligence
Draft

Open sourcing Bunt: A Bot Understanding Testbed



Thanks !

Questions?

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