



CYLANCE™

ARTIFICIAL INTELLIGENCE. REAL THREAT PREVENTION.

Jan Tietze, Senior SE DACH at Cylance

WHO?
WHY?
WHAT?
HOW?

2012

Made in Irvine, California



Stuart McClure
CEO and Founder

Ryan Perme
Founder and Chief Scientist



2014

Next-Gen AV "CylancePROTECT"

70+

850

130M

2x

> 4000

> 14M

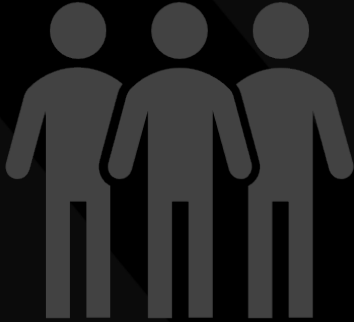
WHO?
WHY?
WHAT?
HOW?

The definition of insanity is trying the same thing over and over again and expecting different results.

Albert Einstein



THE CASE FOR AI IN CYBERSECURITY



Threat Actors

Infect your devices

~1/10th of a second to mutate

~1-2M files/day

Work for free + make you pay

Scale increases every day



AV Industry Analyst

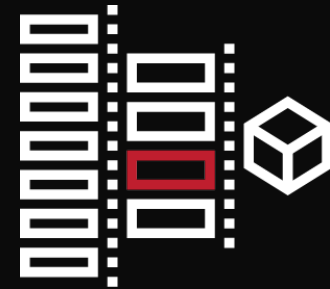
Creates malware definitions

~2h per AV definition

~5 AV definitions/day

€€€

Diffcult to scale



Cylance AI Model

Protect device from infection

~30 ms to device for a file

Infinite – decision on endpoint

€

No scalability limit

WHY?
WHO?
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CYLANCE APPROACH TO TOTAL ENDPOINT SECURITY



TARGETED
THREAT
HUNTING



ROOT
CAUSE
ANALYSIS

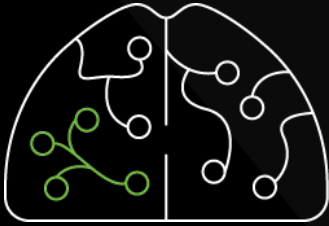


IMMEDIATE
INCIDENT
RESPONSE



CylancePROTECT
AI-DRIVEN ADVANCED THREAT PREVENTION

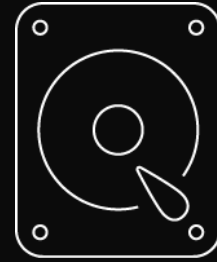
CylancePROTECT®



EFFECTIVENESS



SIMPLICITY



PERFORMANCE





EFFECTIVENESS

CylancePROTECT

No patient zero

True zero-day malware prevention

Needs no prior knowledge of threat

Offline + online protection

Protects against exploits, payloads,
memory attacks, file-less attacks

Additional hardening controls:

- USB Device Control
- Application Control



Microsoft



Mac



redhat.



CentOS



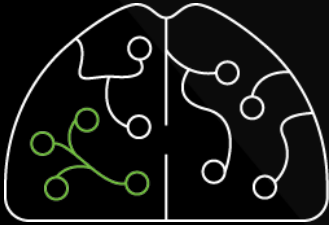
TEMPORAL PREDICTIVE ADVANTAGE

“Temporal Predictive Advantage”, *time in months* that CylancePROTECT was able to detect & block a new threat before it was first seen “in the wild” – without any updates or special configuration. Examples include:

Diagrammtitel



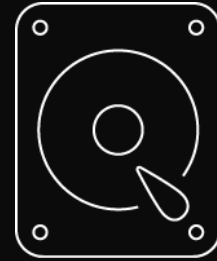
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SIMPLICITY



PERFORMANCE



SIMPLICITY

ZERO

signatures and daily updates means easier administration

Protection is independent of connectivity or large, frequent updates

ZERO

on premise infrastructure reduces complexity

Low operating cost, no resources, no migrations

On-Prem Management is available if you need it (e.g. military, defence, finance, industrial control systems) and is 100% disconnected

EASY

policy management is something the team will love

No need to manage 100s of policies, scanning exclusions etc.

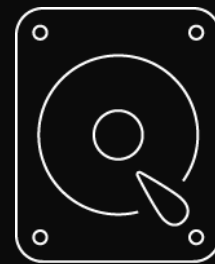
CylancePROTECT®



EFFECTIVENESS



SIMPLICITY

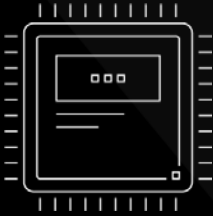


PERFORMANCE





PERFORMANCE



Measurable
CPU Reduction
(~1% of CPU average)



Measurable
Memory Reduction
(40-200 MB of RAM)



Measurable
Disk I/O Improvement
(~1/40th of I/O operations)

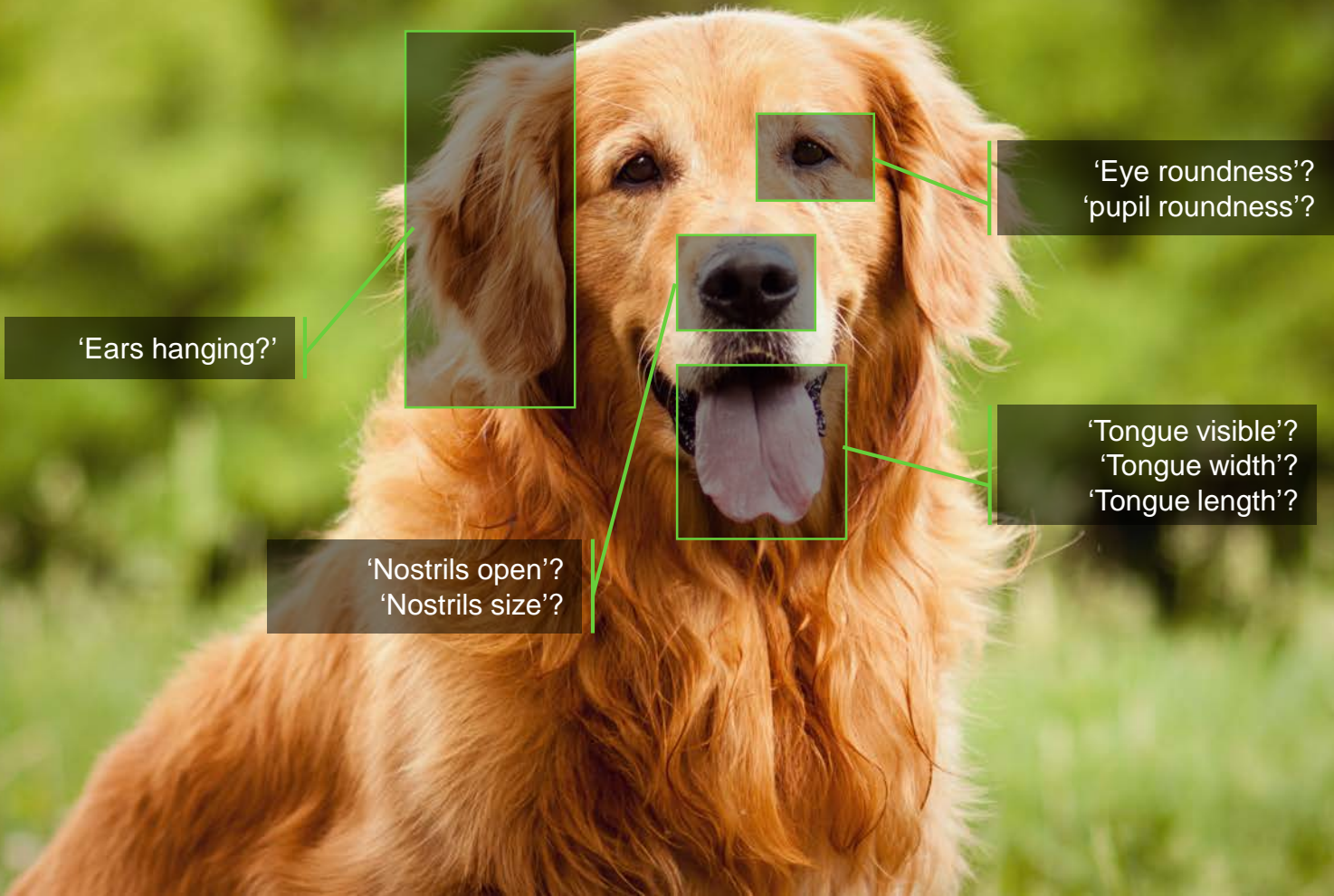
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- Happier (& more productive) users!
 - Improved response times, better scalability for VDI and Terminal Services
 - Longer daily battery life
 - Longer overall system life

WHO?
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"If a typical person can do a mental task with less than one second of thought, we can probably automate it using AI either now or in the near future."

*Prof. Andrew Ng, Stanford University
Former Chief Scientist, Baidu
Co-Founder of Coursera*





'Ears hanging?'



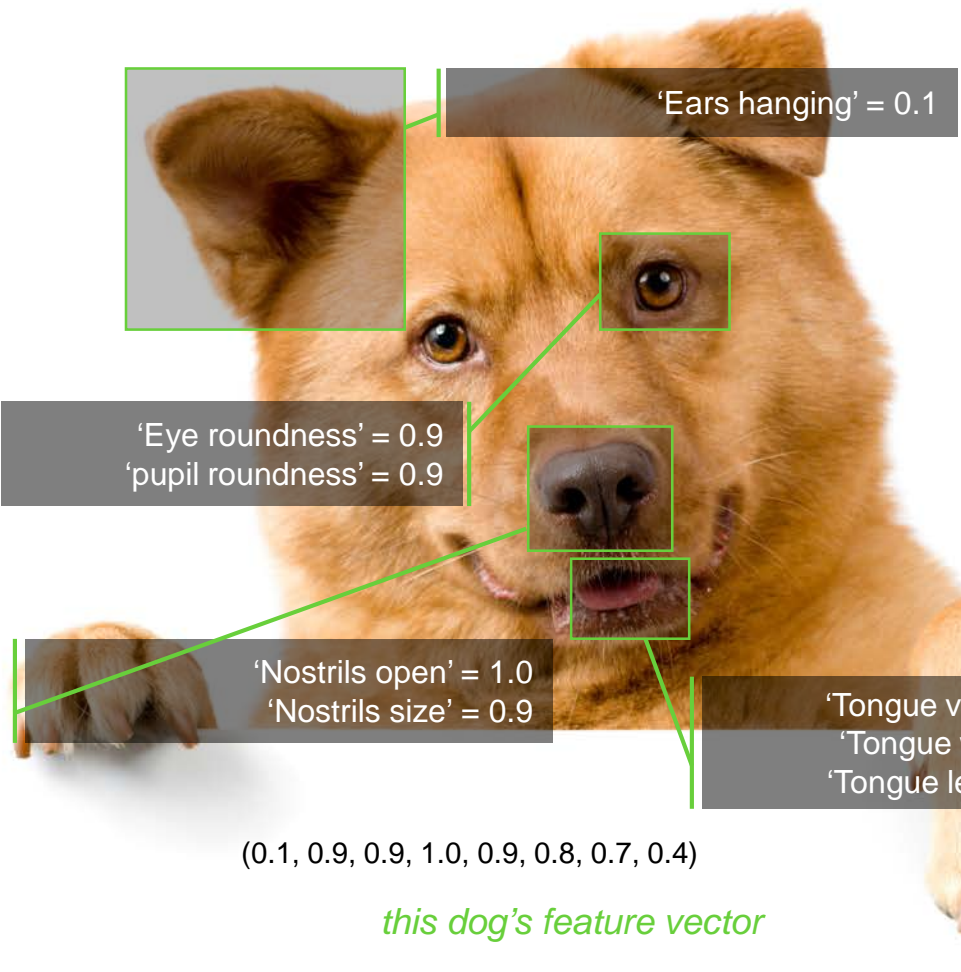
'Eye roundness?'
'pupil roundness?'



'Nostrils open?'
'Nostrils size?'

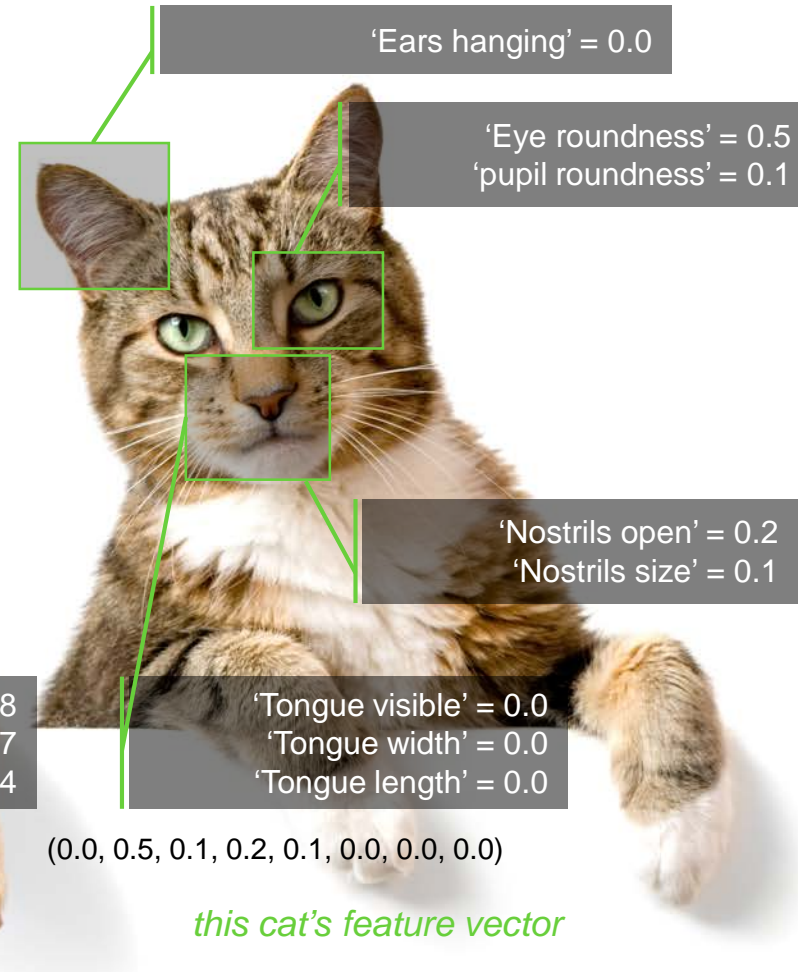


'Tongue visible?'
'Tongue width?'
'Tongue length?'



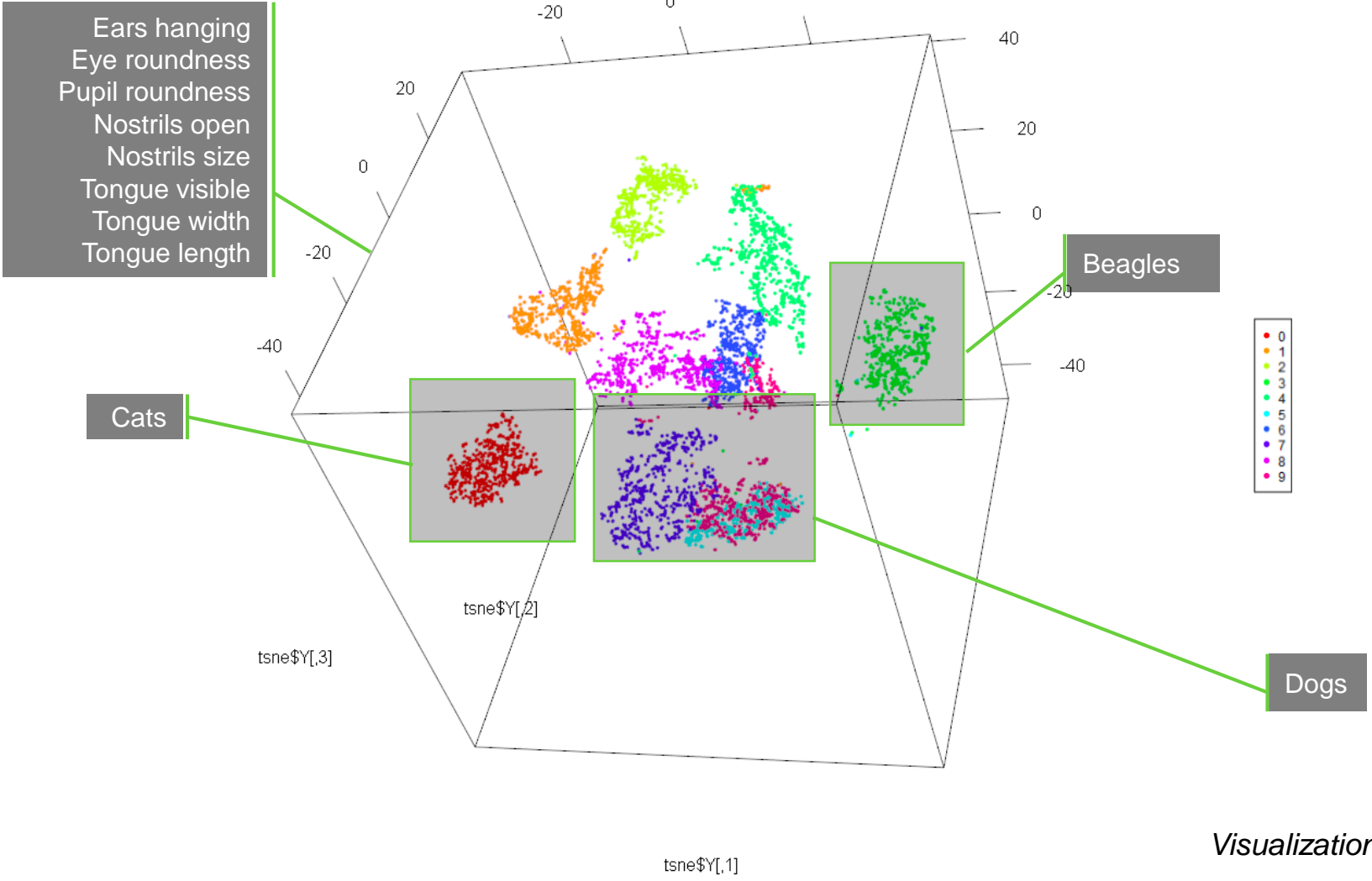
(0.1, 0.9, 0.9, 1.0, 0.9, 0.8, 0.7, 0.4)

this dog's feature vector

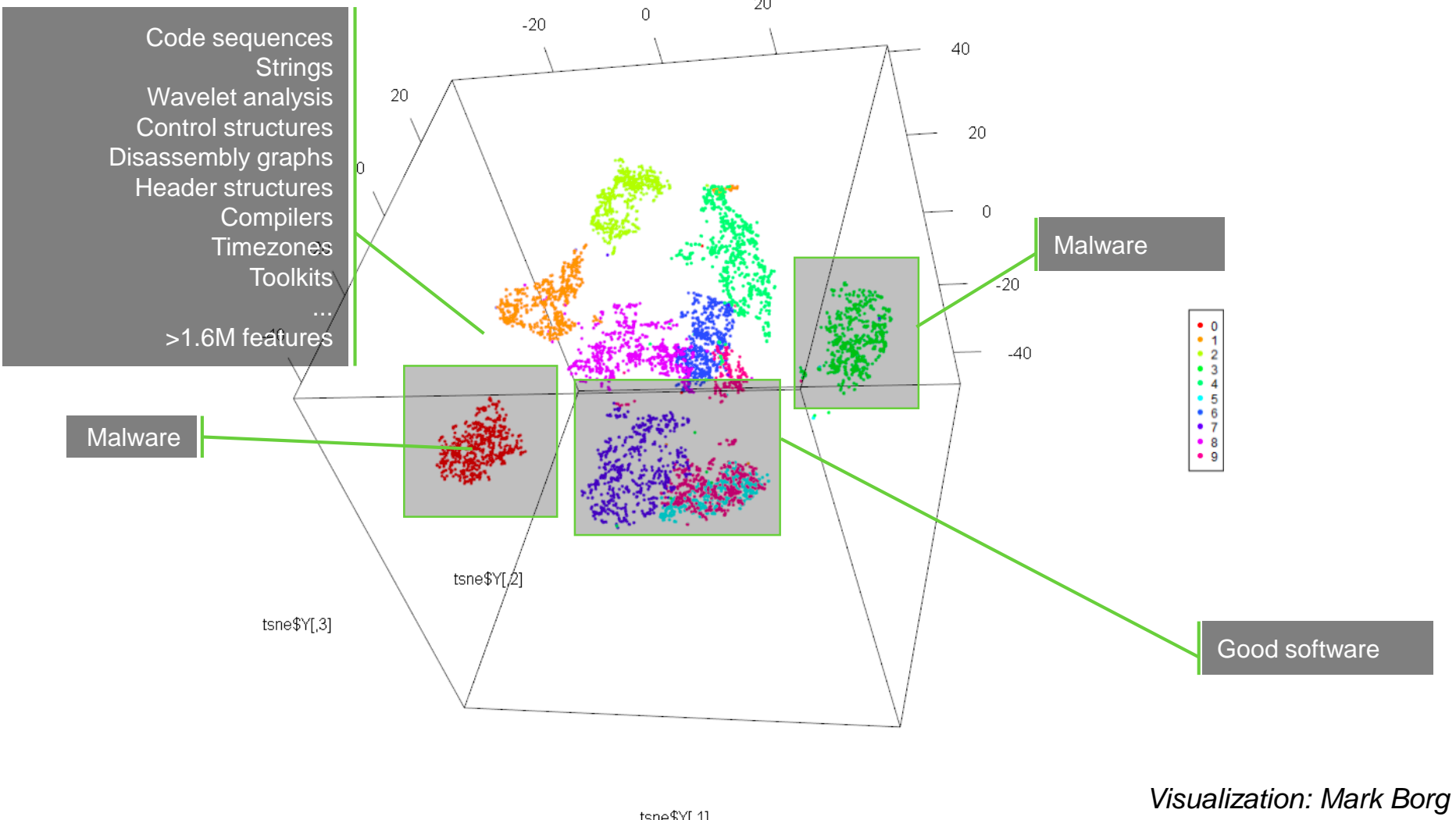


(0.0, 0.5, 0.1, 0.2, 0.1, 0.0, 0.0, 0.0)

this cat's feature vector



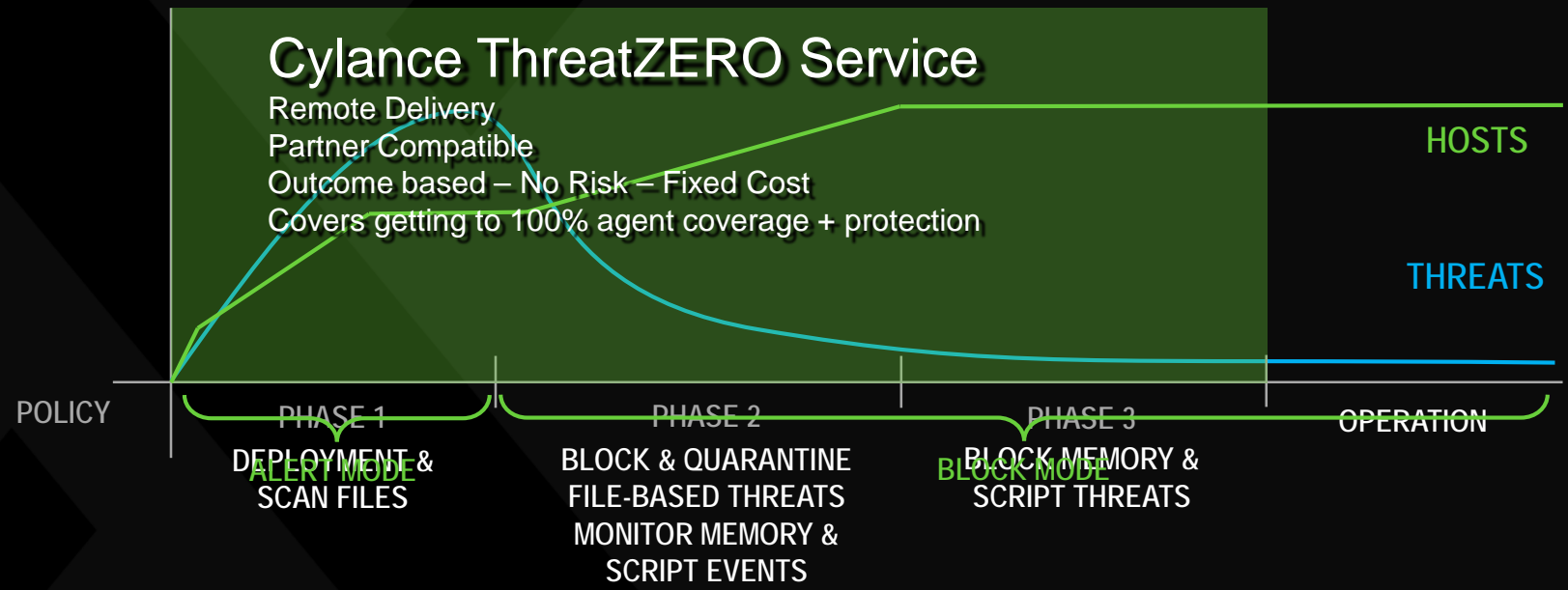
Visualization: Mark Borg



Visualization: Mark Borg

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POC & PRODUCTION DEPLOYMENT





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