

# Tekoäly tutuksi

Tulevaisuusseminaari

Antti Merilehto

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17.8.2018



100+ choices

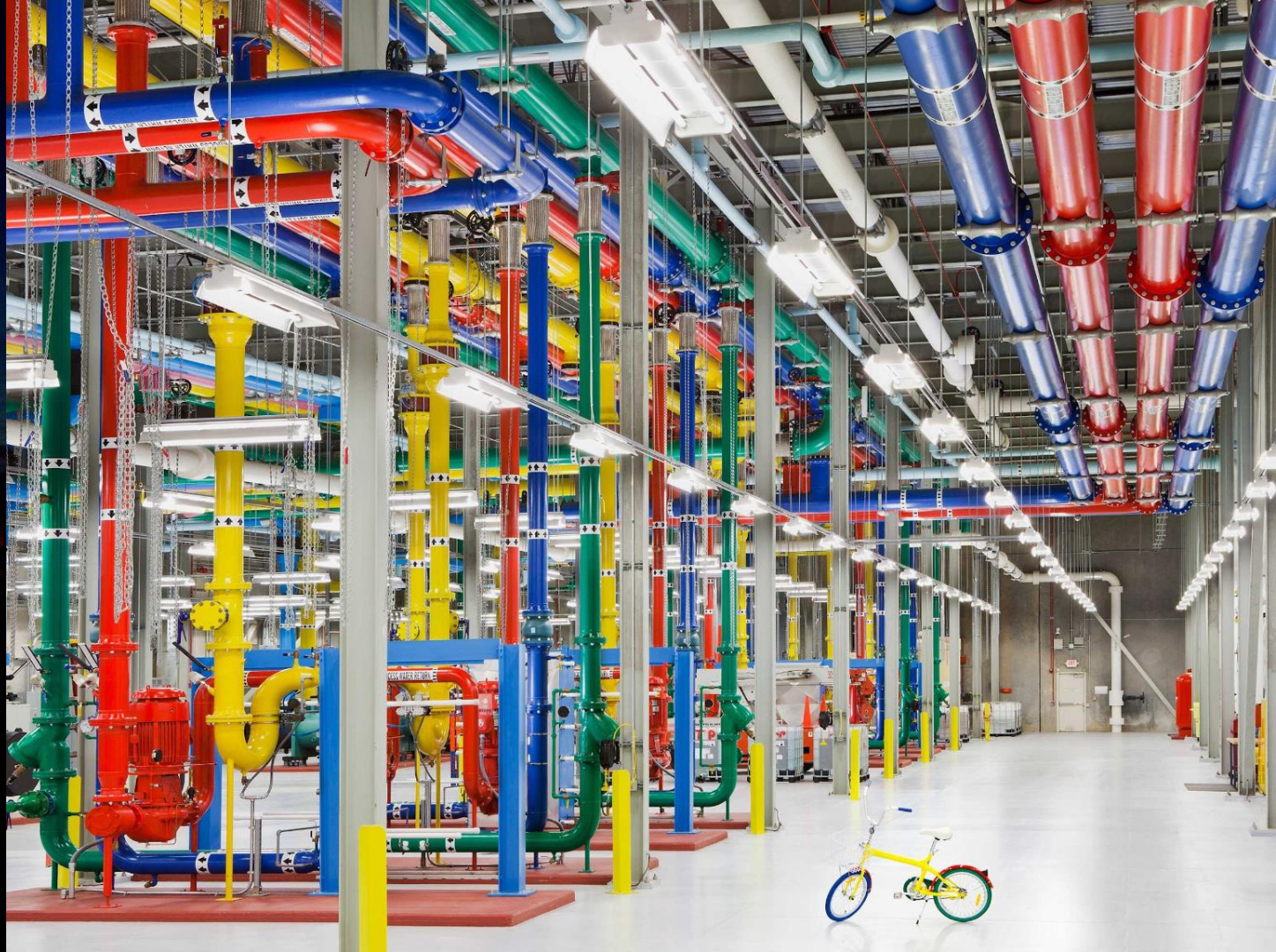
Coca-Cola freestyle

AMC THEATRES



**SLUSH**





TOP 10 TIETO FAKTA

1

ANTTI MERILEHTO  
**TEKOTEKO  
ÄLY**  
MATKAOPAS JOHTAJALLE

6

Alf Rehn  
**JOHTAJUUDEN  
RISTIRIDAT**

2

Yuval Noah Harari  
**Sapiens**  
Ihmisen lyhyt historia  
BAZAR  
MITÄ SUOMI LUKEE?

7

Yuval Noah Harari  
**Homo Deus**  
Huomisen lyhyt historia  
BAZAR





Tutkimus  
paljasti,  
että jopa  
49 prosenttia  
18-34-vuotiaista  
suomalaisista  
ei koe tarvitse-  
vansa tekoälyä."

# Ministeri Lintilä: Suomesta tekoälyn soveltamisen kärkimaa

Työ- ja elinkeinoministeriö © 18.5.2017 13.34

TIEDOTE



Elinkeino- ja työministeri Mikko Lintilä on 18.5.2017 esittänyt ohjelmajulistuksen valmisteluun liittyvistä Suomen tekoälyohjelmasta. Lintilä on todennut, että tekoäly on nopeasti digitaalisen koulutuksen ja Suomen ulko- ja turvallisuusohjelmassa merkittävä osa tämän kehityksen kärjessä.

– Tekoälyohjelman tavoitteena on yhdistyä jalkaan verkko- ja pilviteknologian käyttöön ja luoda uusia työpaikkoja, jotka parhaiten tukevat tekoälyn ja

# Tekoäly on uusi sähkö







Ymmärrä perusasiat  
tekoälystä.

Risto Siilasmaa, Nokia



Roll over image to zoom in

- 89% Cotton, 11% Polyester
- Imported
- Machine Wash
- 5 pocket styling; zip fly
- 11.25 cover Italian stretch denim
- 10.5 inch front rise
- 15.5 inch leg opening
- 33.5 inch inseam

Men's fall essentials - exclusively for Prime members



Dress Shirt  
\$39.00



Sport Shirt  
\$39.00



Checked  
Shirt  
\$25.00



Polo Shirt  
\$12.00

Customers who bought this brand also shopped for



7 For All Mankind Men's  
Eastlight the straight Fit  
Jeans, Adventurous, 33  
\$108.00 ✓prime



7 For All Mankind Mens  
The Straight in Alpha  
\$132.99 ✓prime



7 For All Mankind Men's  
Standard Classic Straight  
Leg Jean  
\$159.99 ✓prime



7 For All Mankind Men's  
Standard Classic Straight  
Leg Jean in Barrow Blue  
★★★★★ 1  
\$84.90 - \$189.00



7 For All Mankind Men's  
the Straight Leg Jean  
\$183.88 - \$189.00



7 For All Mankind Mens  
Slim Straight Leg Dark  
Indigo 36  
\$149.00 ✓prime





UDU1	
KJR1	
LAN1	-
ISO2	
II11	-
JTS1	-
XRJ1	
II11	-

ID	Aikaleima	Mitta	Etäisyys m	Alka s	Keskinopeus
14	11:19:01	MOB			
13	11:17:34	MOB			
12	11:12:06	MOB			






By Goban1 - Own work, Public Domain, <https://commons.wikimedia.org/w/index.php?curid=15223468>





alphagomovie.com

A MOXIE PICTURES PRODUCTION IN ASSOCIATION WITH REEL AS DIRT "ALPHAGO"

FEATURING LEE SEDOL DEMIS HASSABIS DAVID SILVER FAN HUI MUSIC BY VOLKER BERTELMANN (HAUSCHKA) EDITED BY CINDY LEE ASSOCIATE PRODUCER DANE LARSEN  
COLORIST TIM MASICK SUPERVISING SOUND EDITOR GLENFIELD PAYNE, MPSE RE-RECORDING MIXER TOM PAUL MUSIC EDITOR MISSY COHEN, MPSE  
EXECUTIVE PRODUCER ROBERT FERNANDEZ DAN LEVINSON PRODUCED BY GARY KRIEG JOSH ROSEN KEVIN PROUDFOOT DIRECTED BY GREG KOHS

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# nature

THE INTERNATIONAL WEEKLY JOURNAL OF SCIENCE

At last — a computer program that  
can beat a champion Go player **PAGE 484**

## ALL SYSTEMS GO

CONSERVATION

### SONGBIRDS À LA CARTE

*Illegal harvest of millions  
of Mediterranean birds*

**PAGE 452**

RESEARCH ETHICS

### SAFEGUARD TRANSPARENCY

*Don't let openness backfire  
on individuals*

**PAGE 459**

POPULAR SCIENCE

### WHEN GENES GOT 'SELFISH'

*Dawkins's calling  
card 40 years on*

**PAGE 462**

NATUREASIA.COM

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# ARTIFICIAL INTELLIGENCE

Early artificial intelligence stirs excitement.



# MACHINE LEARNING

Machine learning begins to flourish.



# DEEP LEARNING

Deep learning breakthroughs drive AI boom.



1950's

1960's

1970's

1980's

1990's

2000's

2010's

Since an early flush of optimism in the 1950's, smaller subsets of artificial intelligence - first machine learning, then deep learning, a subset of machine learning - have created ever larger disruptions.







karen zack @teenybiscuit · 21h  
sheepdog or mop ?

< Albums

sheepdog or mop

Select



↻ 2.9K



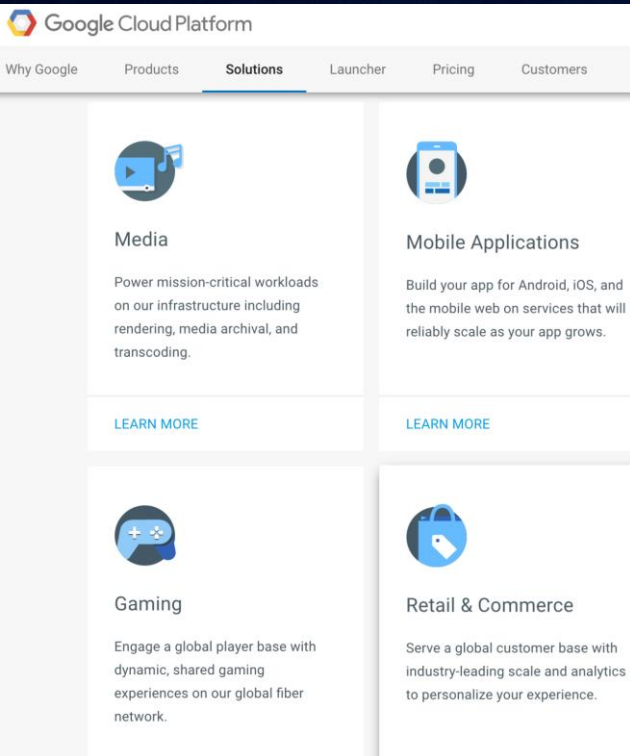
♥ 1.5K





@teenybiscuit

# Työkalut ovat täällä - nyt pitää kokeilla!



Google Cloud Platform

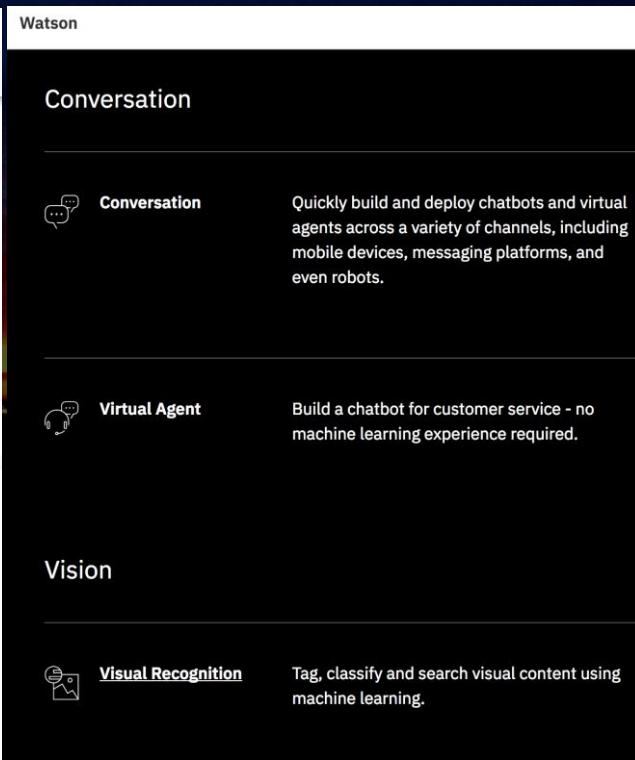
Why Google Products **Solutions** Launcher Pricing Customers

**Media**  
Power mission-critical workloads on our infrastructure including rendering, media archival, and transcoding.  
[LEARN MORE](#)

**Mobile Applications**  
Build your app for Android, iOS, and the mobile web on services that will reliably scale as your app grows.  
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**Gaming**  
Engage a global player base with dynamic, shared gaming experiences on our global fiber network.

**Retail & Commerce**  
Serve a global customer base with industry-leading scale and analytics to personalize your experience.



Watson

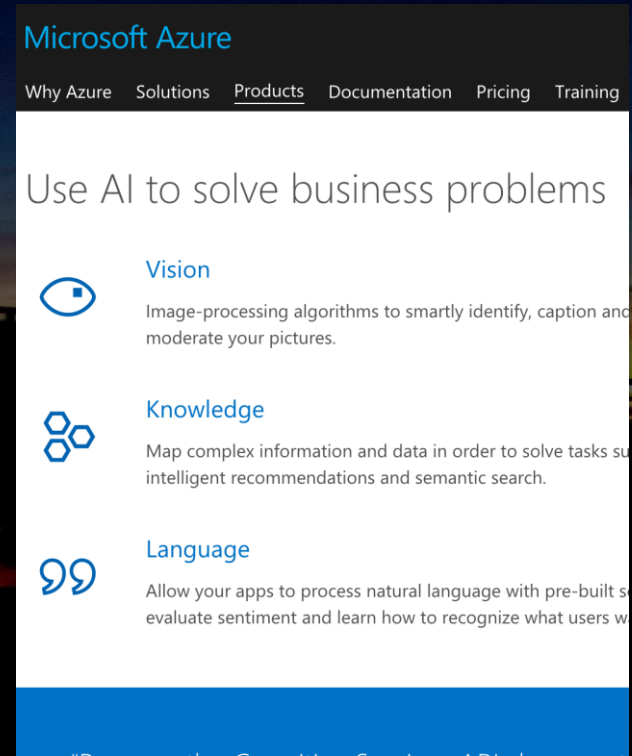
**Conversation**

**Conversation**  
Quickly build and deploy chatbots and virtual agents across a variety of channels, including mobile devices, messaging platforms, and even robots.

**Virtual Agent**  
Build a chatbot for customer service - no machine learning experience required.

**Vision**

**Visual Recognition**  
Tag, classify and search visual content using machine learning.



Microsoft Azure

Why Azure Solutions Products Documentation Pricing Training

Use AI to solve business problems

**Vision**  
Image-processing algorithms to smartly identify, caption and moderate your pictures.

**Knowledge**  
Map complex information and data in order to solve tasks such as intelligent recommendations and semantic search.

**Language**  
Allow your apps to process natural language with pre-built services to evaluate sentiment and learn how to recognize what users want.

"Because the Cognitive Services APIs harness the power of machine intelligence into our product without..."

ANTTI MERILEHTO

# TEKO ÄLY

MATKAOPAS JOHTAJALLE



DAIANI  
Cherry

Fanta  
Orange

Powerade  
ZERO  
STRAWBERRY

100+ choices

Coca-Cola freestyle

AMC  
THEATRES



Mitä teet seuraavaksi?

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