





Louisiana State Bar Association

AI and the Legal Profession

John Browning
Ronald Chichester
Al Harrison
Mark Unger

Automation

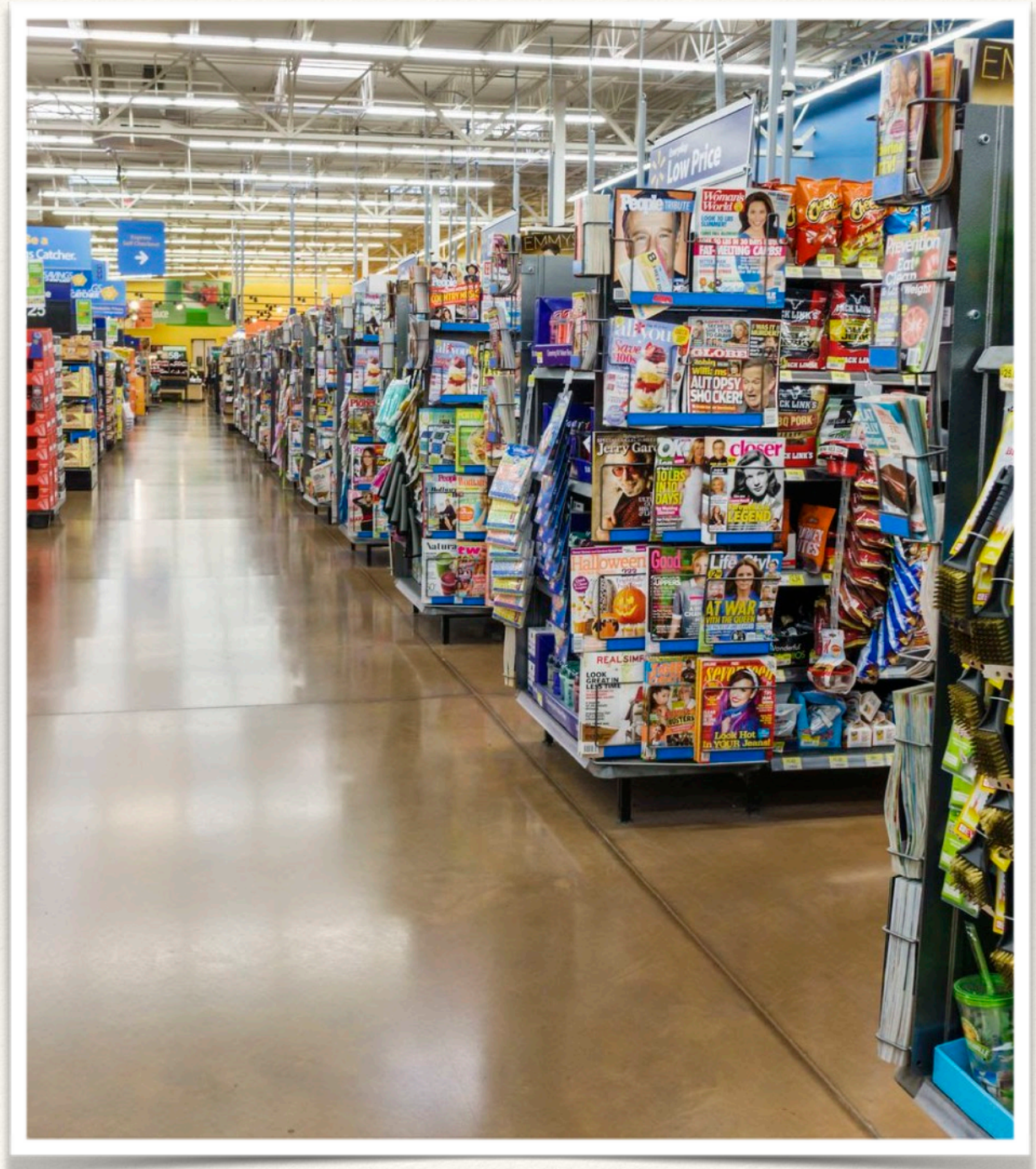
First Wave of Automation

- ❖ *Standardized* processes
- ❖ the Production Line
- ❖ Steps in the overall process:
 - ❖ Measured
 - ❖ Optimized
 - ❖ Standardized
- ❖ Achieved great efficiencies
- ❖ Example: Ford Motor Co.



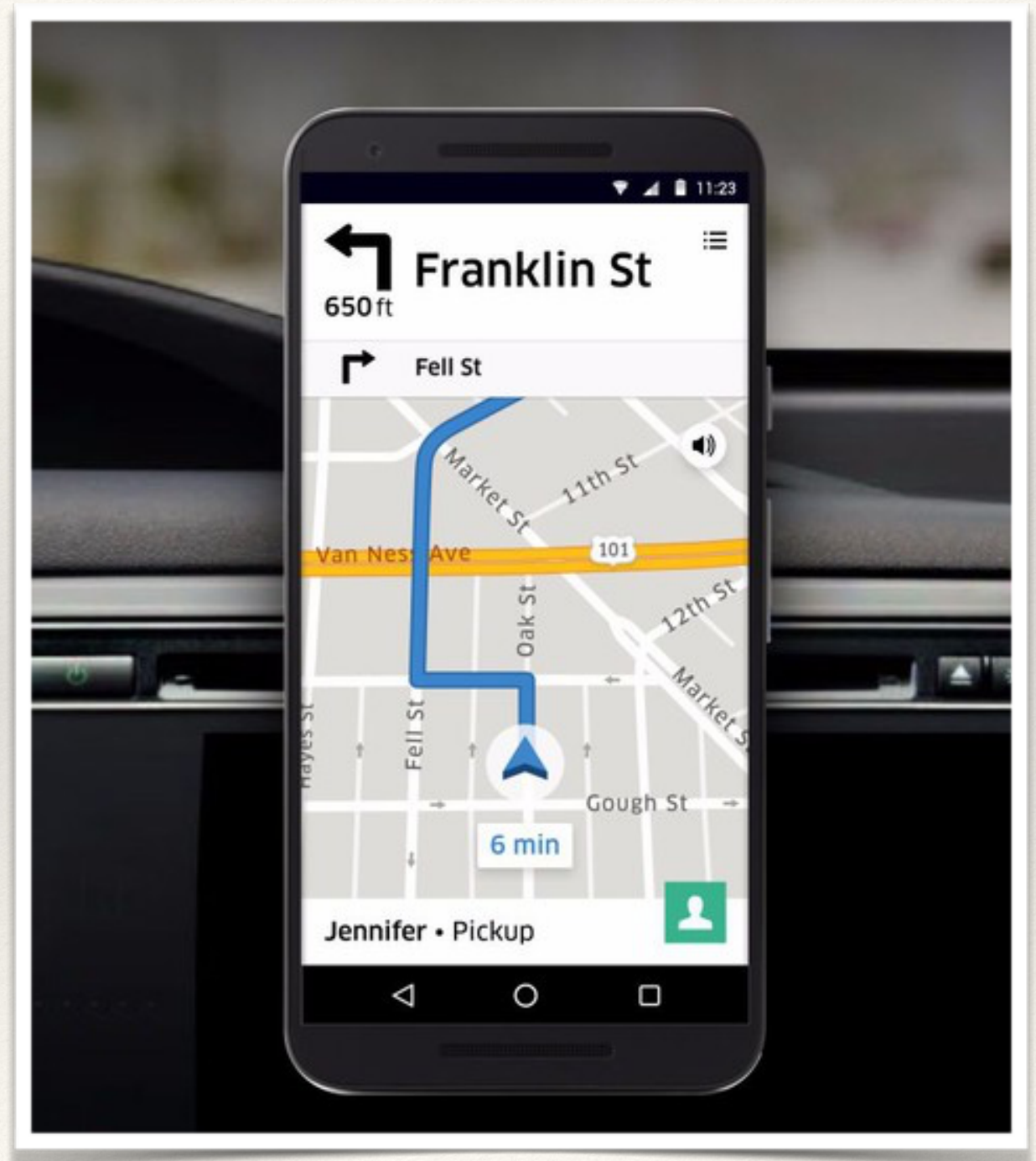
Second Wave of Automation

- ❖ *Automated* processes
- ❖ IT enabled automation of back-office tasks
- ❖ Emerged in the 1970's and peaked in the 1990's
- ❖ “Business Process Reengineering” (BPR) initiative
- ❖ Example: WalMart



Third Wave of Automation

- ❖ *Adaptive* processes
- ❖ Built upon the first two waves
- ❖ Driven by real-time data, available through a network
- ❖ **Not** standardized or routine
- ❖ Processes are constantly changing
- ❖ Example: Uber driver using Google Maps



Third Wave of Automation makes
extensive use of *Artificial Intelligence*

What is Artificial Intelligence?

First thing...

AI is not monolithic



SINCE 1828

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artificial intelligence

DICTIONARY

THESAURUS

artificial intelligence **noun**

Definition of *artificial intelligence*

- 1 : a branch of computer science dealing with the simulation of intelligent behavior in computers
- 2 : the capability of a machine to imitate intelligent human behavior

Examples of *artificial intelligence* in a Sentence

// a robot with *artificial intelligence*

Recent Examples on the Web

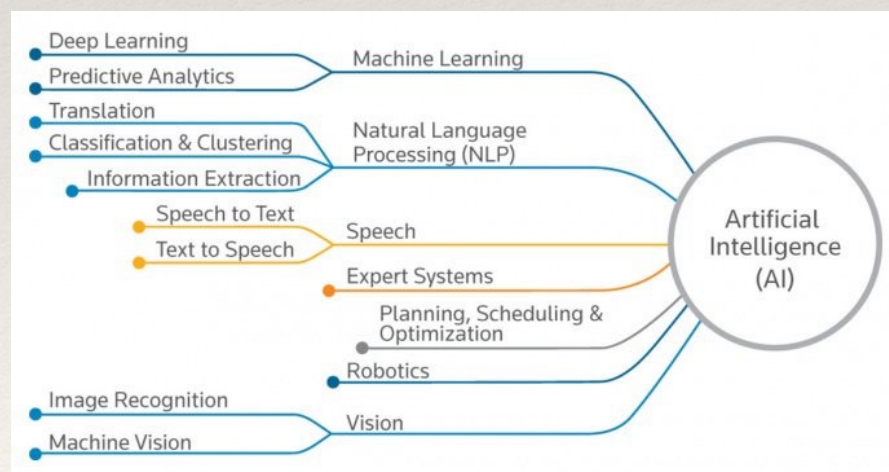
// Technologies such as *artificial intelligence* and virtual reality would allow some crew members to work from shore, operating key sections of ships from thousands of miles away.

— Kyle Mizokami, *Popular Mechanics*, "Future Warships Could Be Sailed Remotely with Artificial Intelligence, Virtual Reality," 27 Nov. 2018

Two Main Types of AI

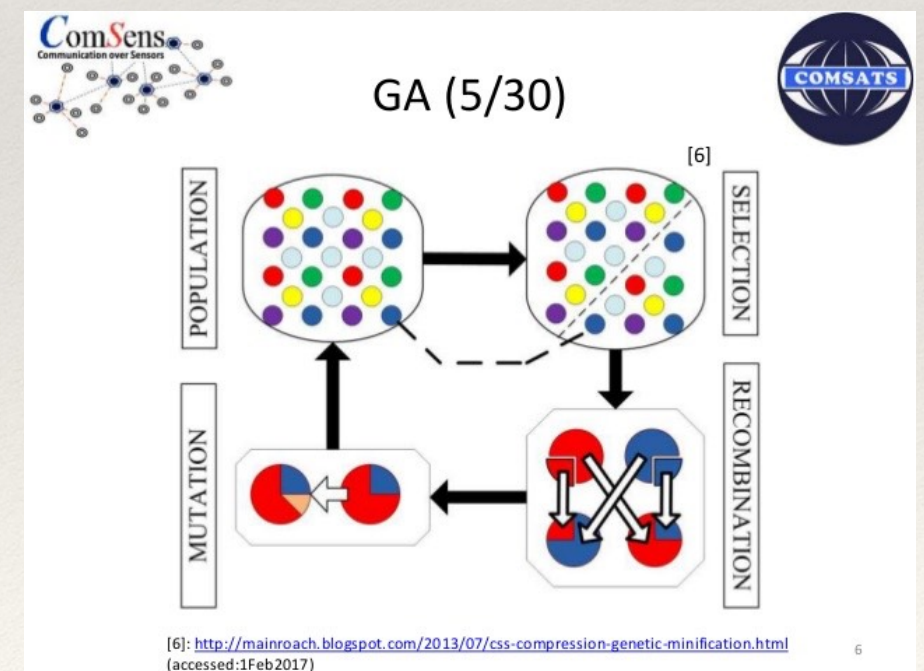
Predictive

Neural Networks



Creative

Genetic Algorithms



Two Main Types of AI

Predictive

Neural Networks

- How a Judge might rule.
- Is a document responsive?

Creative

Genetic Algorithms

- Find the best cause of action
- Find the best business model



ARTIFICIAL INTELLIGENCE IN COMMERCE MARKET MAP

REAL-TIME PRODUCT TARGETING



REAL-TIME PRICING & INCENTIVES



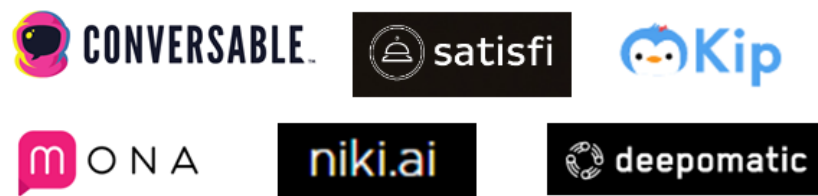
NATURAL LANGUAGE SEARCH



VISUAL SEARCH



CONVERSATIONAL COMMERCE



SIZING & STYLING



INTEGRATED ONLINE & IN-STORE ANALYTICS



LOCATION-BASED MARKETING & ANALYTICS



IN-STORE VISUAL MONITORING



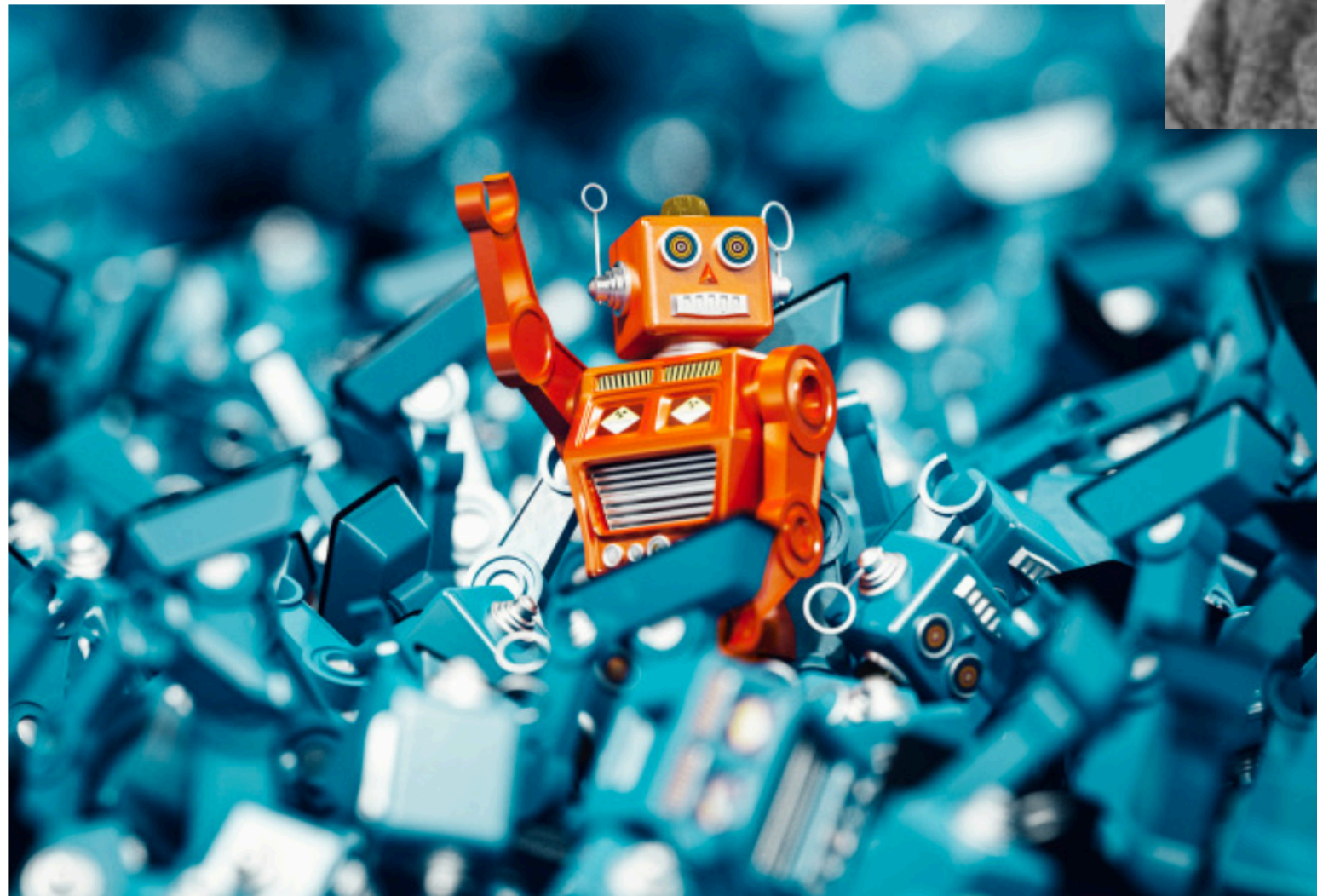
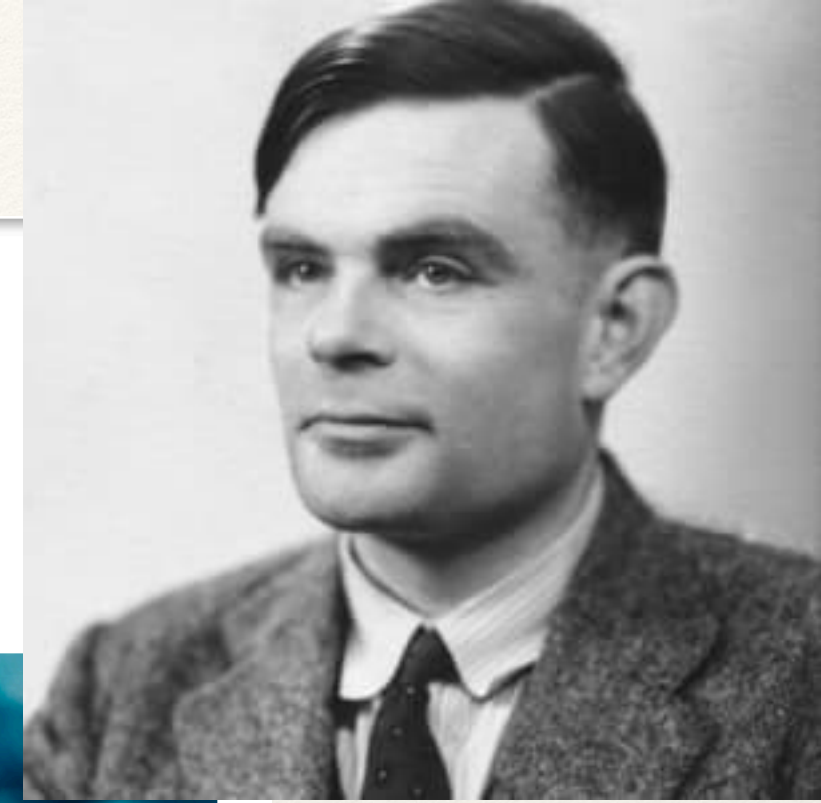
PREDICTIVE MERCHANDISING



MULTICHANNEL MARKETING



REALITY: THE EVOLUTION OF ARTIFICIAL INTELLIGENCE

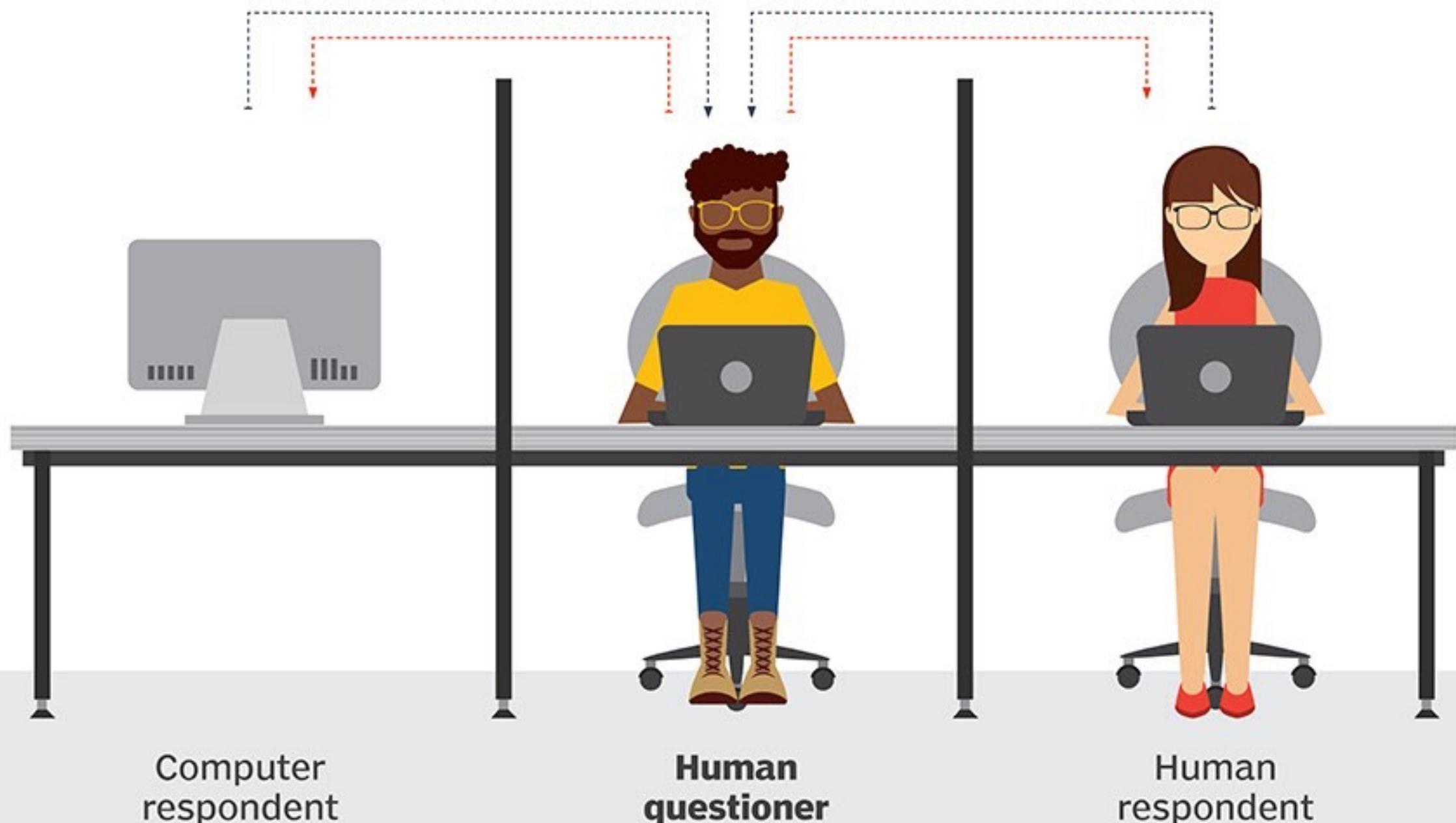


 Getty Images

Turing test

During the Turing test, the human questioner asks a series of questions to both respondents. After the specified time, the questioner tries to decide which terminal is operated by the human respondent and which terminal is operated by the computer.

■ QUESTION TO RESPONDENTS ■ ANSWERS TO QUESTIONER





Antiquity

In **Greek mythology**, **Talos** was a giant automaton made of bronze to protect Europa

Three Laws of Robotics
as written by Isaac Asimov

1. A robot may not injure a human being or, through inaction, allow a human being to come to harm.
2. A robot must obey any orders given to it by human beings, except where such orders would conflict with the First Law.
3. A robot must protect its own existence as long as such protection does not conflict with the First or Second Law.



1950

Asimov introduced the **Three Laws of Robotics**



1956

Arthur Samuel (IBM) wrote the **first game-playing program** for checkers

John McCarthy coins "**Artificial Intelligence**" for the first time



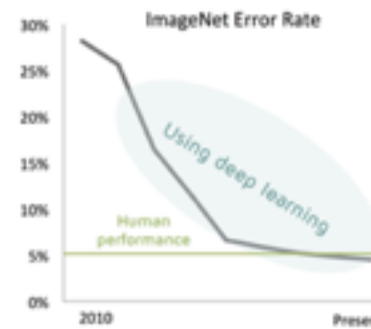
1980

Generation of entrepreneurs believed AI was the **wave of the future**



1985

Computer Scientists pioneer **highly effective ML method**



2010

ImageNet Challenge



2015

Google DeepMind's **AlphaGo** defeats European Go champion

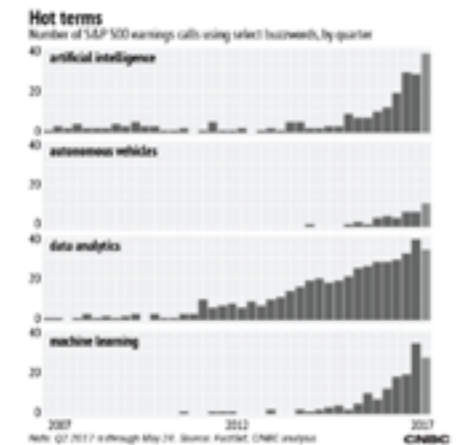


2016

Microsoft's AI can now understand speech **better than humans**

2017

AI **'everywhere'** and accelerating





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chatbot lawyer



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Trending



History

BEST OF YOUTUBE



Music



Sports



Gaming



Movies



TV Shows



News



Live



Spotlight



360° Video



Browse channels

Sign in now to see your channels and



FILTER



This Stanford Students 'Robot Lawyer' Can Get You Out Of Parking Tickets (HBO)

VICE News ✓ 47K views • 2 years ago

19-year-old Stanford student Joshua Browder has overturned more than 190,000 parking tickets with the help of his artificially ...



Lawyer Chat Bots - Customer Chat on Website - DustinSanchezTV.com

Dustin Sanchez • 206 views • 1 year ago

<https://www.dustinsancheztv.com/lawyer-chatbots> Use the Customer Chat feature on ManyChat to convert website visitors into ...



Chatbot Lawyer Overturns 160,000 Parking Tickets

David Pakman Show ✓ 6.3K views • 2 years ago

--An artificial-intelligence lawyer called Chatbot has successfully contested 160,000 parking tickets across London and New ...



Meet the Robot Lawyer Fighting Fines, Fees, and Red Tape

ReasonTV • 25K views • 6 months ago

Joshua Browder is trying to cut red tape and upend the legal services industry with DoNotPay, a company that's running a "denial ...

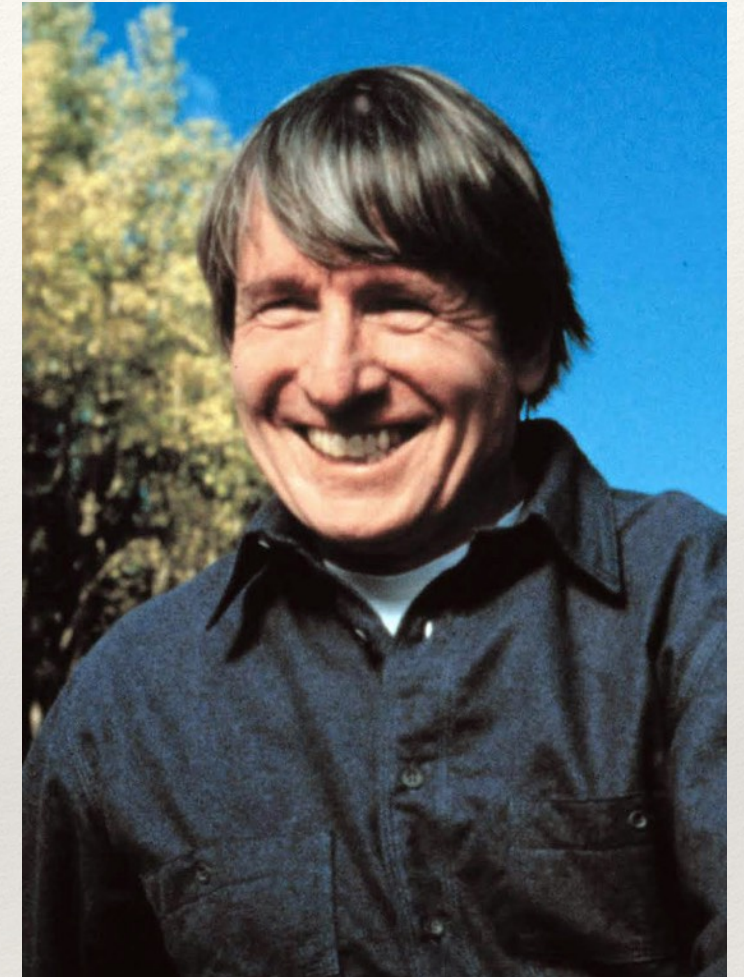
CC

(virtu)Al's personal experience



<Ron's personal experience>

How I got my start in AI



Genetic Algorithms





23:49:35

gifs.com

My Personal Experience





US007991886B1

(12) **United States Patent**
Wu

(10) **Patent No.:** **US 7,991,886 B1**
(45) **Date of Patent:** **Aug. 2, 2011**

(54) **METHOD AND APPARATUS FOR
INDIVIDUAL-CENTRIC USE OF THE
INTERNET**

(75) Inventor: **Guangdian Gordon Wu**, Houston, TX
(US)

(73) Assignee: **Base Base Corporation**, Houston, TX
(US)

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 886 days.

(21) Appl. No.: **09/822,097**

(22) Filed: **Mar. 30, 2001**

(51) **Int. Cl.**
G06F 15/173 (2006.01)

(52) **U.S. Cl.** **709/225**; 709/203; 709/217; 709/223;
709/224

(58) **Field of Classification Search** 709/200,
709/202, 203, 218, 205, 217, 223, 246, 224,
709/225; 705/26; 707/6, 9, 100, 203
See application file for complete search history.

(56) **References Cited**

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2001/0011264 A1 * 8/2001 Kawasaki 707/1
2002/0116386 A1 * 8/2002 Fabri et al. 707/100
2002/0116394 A1 * 8/2002 Van Doorn 707/104.1

* cited by examiner

Primary Examiner — Ramy M Osman

(74) *Attorney, Agent, or Firm* — Baker Botts, L.L.P.

(57) **ABSTRACT**

An individual-centric Internet is provided with a personal base process on a computer system. The computer system is equipped with multiple nodes that are interconnected to facilitate the communication between the nodes. The personal base service includes a personal base instance that is typically in software on at least one of the nodes of the computer system, such as a network. The personal base instance is designed to communicate with a user by any digital or analog device, such as a telephone, personal computer, personal digital assistant, or the like. A personal base server is instantiated on at least one of the nodes on the computer system and is in operative communication with the personal base instance. The personal base server is used to communicate with other personal bases or other nodes on the computer system or network in order to insulate the user from

Mortgage Discrimination: What to Do If It Happens to You



HAL M. BUNDRICK, CFP

Feb. 10, 2016

[Home Search, Mortgages](#)



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- [Find a Top Real Estate Agent](#)
- [How Much House Can I Afford](#)


```

# Course URL:
# https://deeplearningcourses.com/c/natural-language-processing-with-deep-learning-in-python
# https://udemy.com/natural-language-processing-with-deep-learning-in-python
# data is from: http://nlp.stanford.edu/sentiment/

from __future__ import print_function, division
from builtins import range
# Note: you may need to update your version of future
# sudo pip install -U future

import sys
import tensorflow as tf
import numpy as np
import matplotlib.pyplot as plt

from sklearn.utils import shuffle
from util import init_weight, get_ptb_data, display_tree

def tensor_mul(d, x1, A, x2):
    A = tf.reshape(A, [d, d*d])
    # (1 x d) x (d x dd)
    tmp = tf.matmul(x1, A)
    # (1 x dd)
    tmp = tf.reshape(tmp, [d, d])
    # (d x d)
    tmp = tf.matmul(tmp, tf.transpose(x2))
    # (d x 1)
    return tf.reshape(tmp, [1, d])

def get_labels(tree):
    # must be returned in the same order as tree logits are returned
    # post-order traversal
    if tree is None:
        return []
    return get_labels(tree.left) + get_labels(tree.right) + [tree.label]

class RNTN:
    def __init__(self, V, D, K, activation):
        self.D = D
        self.f = activation

        # word embedding
        We = init_weight(V, D)

        # quadratic terms
        W11 = np.random.randn(D, D, D) / np.sqrt(3*D)
        W22 = np.random.randn(D, D, D) / np.sqrt(3*D)
        W12 = np.random.randn(D, D, D) / np.sqrt(3*D)

        # linear terms
        W1 = init_weight(D, D)
        W2 = init_weight(D, D)

```


</personal experience>

AI is really cool!

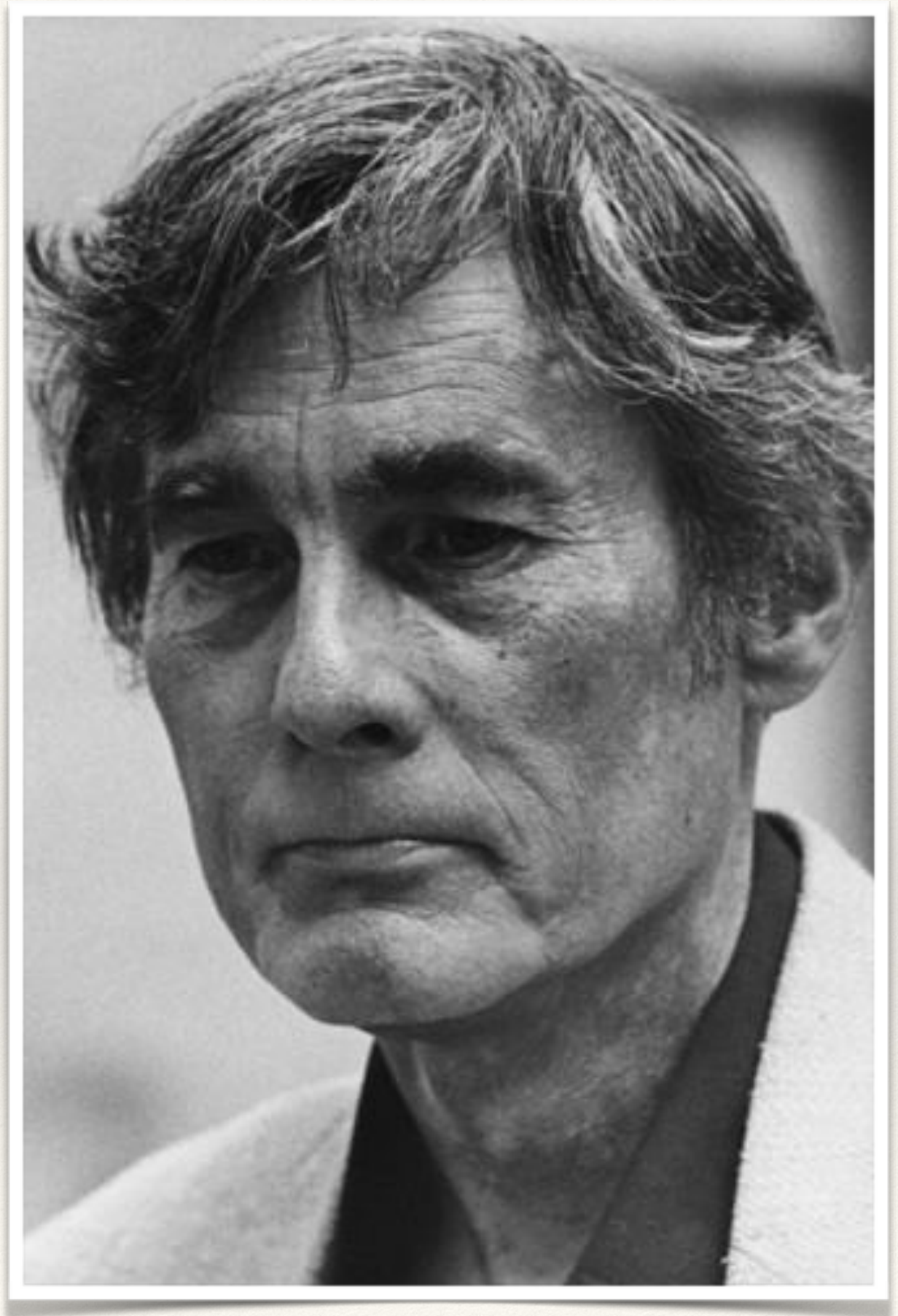
But the thing that people forget...

... is that they are only computers.

Theodore Roszak

Computers are only
good at two things:

Storing and retrieving
large amounts of
information; and
Performing repetitive
tasks



If your task doesn't involve one or both of those, then **don't** use a computer

AI does both

So does the Legal Profession

What is the single word in the
English language that illustrates
why the legal profession is
tolerated?

Ambiguity

AI doesn't handle ambiguity well

<example>

“Thank you”

So are lawyers off the hook?

❖ **No!**



(Right now...)

AI is only having ancillary effects

<more examples>

Creative

All Prior Art

Algorithmically generated prior art

Prior Art Publications About Contact

1461187725-f00e0aa8-68b8-4055-92c0-b74346ad03c3

A wearable electric device includes a main body with a circuit module inside and at least a detachable battery strap with a battery module inside, and the main body and the detachable battery strap are detachably fastened together. The test device includes an addressable memory. Responsive to one of the plurality of processes attempting to access a late binding object by its identifier, a determination is made as to which late binding object is associated with the process. The composition may be applied to soil to control a population of a deleterious organism. Each of the strips is radially offset from one another. In the sealing step, long side edges of the battery case are crimped by a forming surface having a rounded cross section, and arc-shaped edges connecting both long side edges are crimped by a flat forming surface.



<https://allpriorart.com/>


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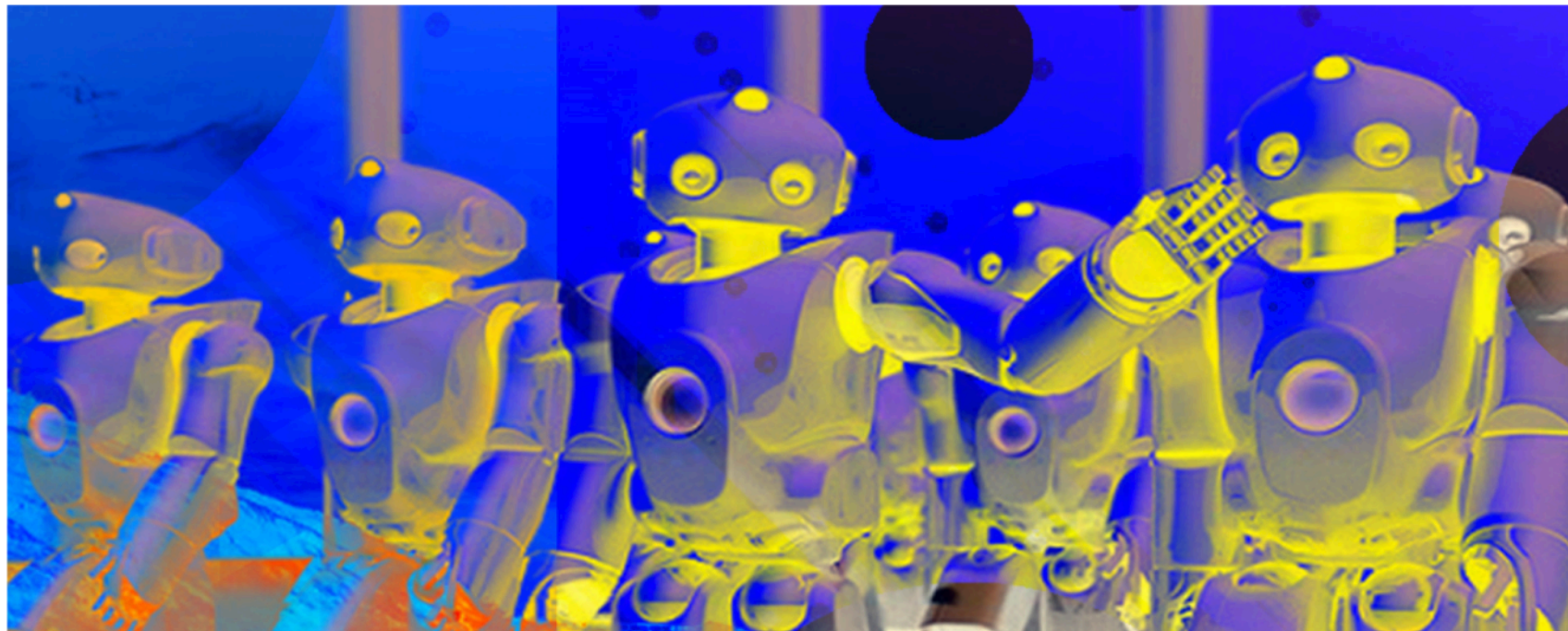
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The Impact of Artificial Intelligence – Widespread Job Losses

No question, the impact of artificial intelligence and automation will be profound. But we need to prepare for a future in which job loss reaches 99%

By **Calum McClelland** - August 17, 2018

 152588





New Episode

THE IOT FOR ALL PODCAST!

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<https://www.iotforall.com/impact-of-artificial-intelligence-job-losses/>



Minimum wage hike ignores impact of Artificial Intelligence

June 20, 2017 4.58pm EDT Updated June 26, 2017 6.18pm EDT

<https://theconversation.com/minimum-wage-hike-ignores-impact-of-artificial-intelligence-78864>

... but AI isn't the biggest threat

The Bigger Threats

- ❖ Erosion of client base b / c of AI
- ❖ Competition from corporations
 - ❖ AI isn't practicing law
 - ❖ One-to-many service by AI
- ❖ Domain Specific Languages
 - ❖ Eliminates ambiguity
 - ❖ Commoditizes language
 - ❖ Enables automation
 - ❖ Facilitates use of AI



Domain Specific Languages

- ❖ Computer language that is adapted to a specific domain, such as legal contracts
- ❖ Differs from general-purpose computer language (e.g. Python)
- ❖ Can be used to automate business processes (e.g. contract negotiation)
- ❖ Resulting contract can be implemented on a blockchain
- ❖ An example is legalese.com

KNOW ALL MEN BY THESE PRESENTS

that

WONG MENG WENG

*upenn.edu (SEAS '97), Harvard Berkman Klein ('16-'17), Stanford CodeX ('17-'18)
previously co-founder of pobox.com, karmasphere.com, hackerspace.sg, and jfdi.asia
and co-author of SPF (IETF RFC4408), a globally deployed opensource email standard*

and

ALEXIS CHUN

*a recovering lawyer who read at Queen Mary in London, practiced at TSMP (M&A)
and Rajah & Tann (commercial litigation), and spent years consulting on software contracts
before coming to the conclusion that doing things by hand was never going to get better*

TOGETHER WITH

**COLIN
CHARLES**

*who advises us on opensource
business models, informed by his
work at MySQL & MariaDB*

**JOB
CHONG**

*a self-taught Javascript developer
fresh out of NUS law school
our first legal engineer*

**DUSTIN
WEHR**

*a Ph.D. in logical argumentation
specialising in language
design and dev*

**VIRGIL
GRIFFITH**

*a Caltech Ph.D. and boy does it show
Internet Man of Mystery and
our Ethereum specialist*

AND

ARTIFICIAL LAWYER

AI AND LEGAL AUTOMATION NEWS + VIEWS

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AL Interview: Software is Eating Law – Legalese.com

🕒 29th July 2016 👤 artificiallawyer 📁 Blockchain, Future, Interview, Smart contracts 💬 0





Better Language Models and Their Implications

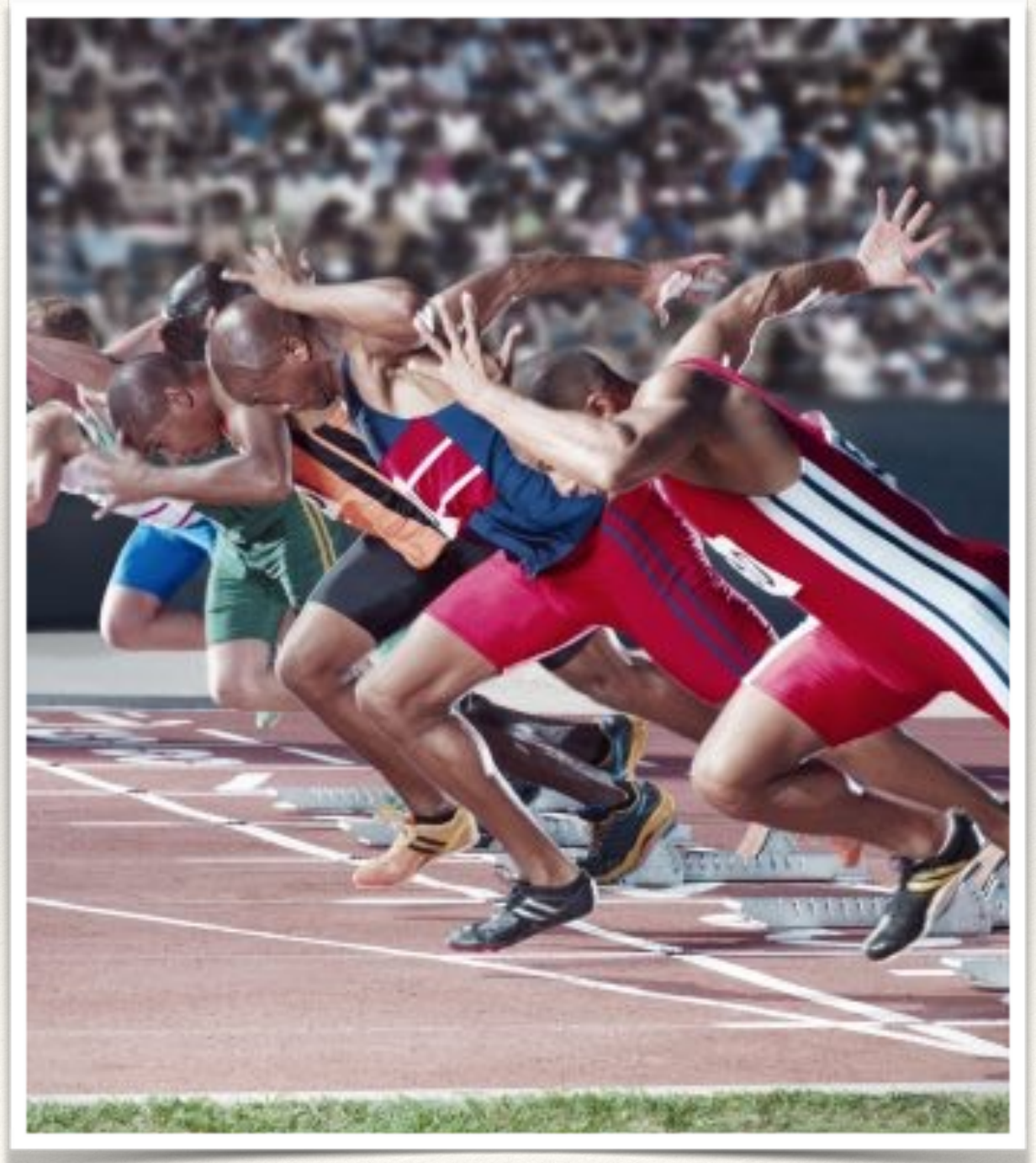
FEBRUARY 14, 2019
21 MINUTE READ

<https://openai.com/blog/better-language-models/>

DSL + AI = (Lawyer) Killer App

You're in a race against AI & DSL

- ❖ You will be forced to use AI in order to practice law at all
- ❖ You will lose...
- ❖ ... but not right away
- ❖ You must adapt while you can
- ❖ Learn where humans excel over AI (and where AI excels)
- ❖ The “human touch” will be a luxury — *exploit it*



What To Do

❖ Mindset

- ❖ Use AI to augment humans
- ❖ Hire people who can work well with machines
- ❖ Hire people who are comfortable with constant change
- ❖ Be comfortable with machines and change *yourself*



What To Do

- ❖ **Experimentation**
 - ❖ Actively review current processes
 - ❖ How can humans change
 - ❖ How can AI change
- ❖ Human / AI collaboration is key to the best processes



What To Do

- ❖ Leadership
 - ❖ Responsible use of AI
 - ❖ Ethical
 - ❖ Moral
 - ❖ Legal
 - ❖ Accountability
 - ❖ Bias



What To Do

◆ Data

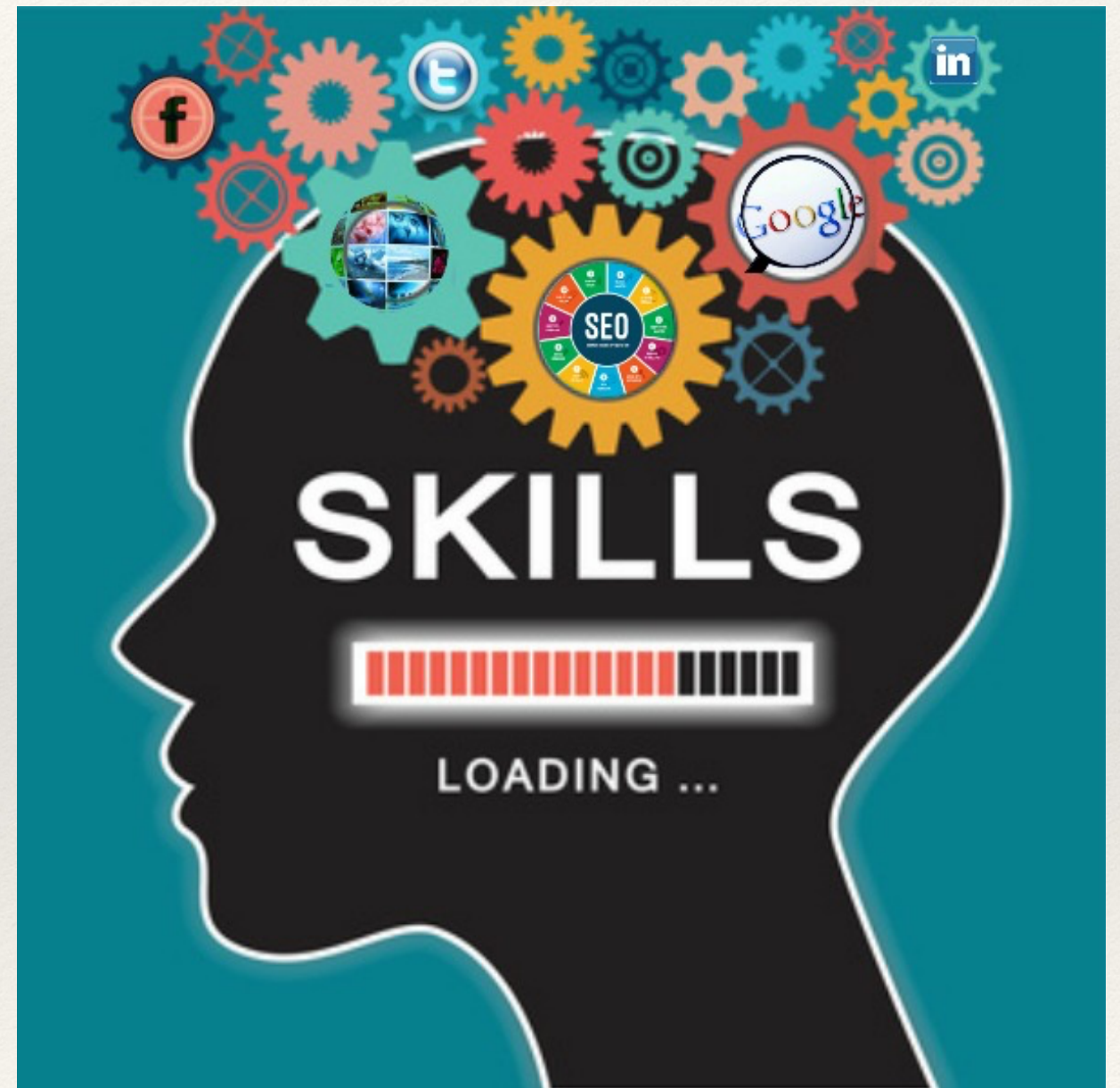
- ❖ Build a data “supply chain”
- ❖ Not only input data, but also “exhaust data”
- ❖ Know that there is a cost and *responsibility* for data
- ❖ Attorneys tend to hoard data
- ❖ Must adapt incentives for sharing rather than hoarding



What To Do

❖ Skills

- ❖ Eight “fusion skills” necessary for reimagining processes with AI
 - ❖ Rehumanizing time
 - ❖ Responsible normalizing
 - ❖ Judgement integration
 - ❖ Intelligent interrogation
 - ❖ Bot-based empowerment
 - ❖ Holistic melding
 - ❖ Reciprocal apprenticing
 - ❖ Relentless reimagining



Low Hanging (AI) Fruit


- ❖ Back office operations
 - ❖ e.g., scanning for viruses
 - ❖ e.g., estimating profit of case
- ❖ Client intake
- ❖ Marketing
- ❖ Amplify human abilities
- ❖ Hire what you need



AI is great when you can't afford to
hire an employee

<some examples>

AI Chatbots for Client Intake

 Chat With Us

Lana:

Welcome to D&G Attorneys. What can I help you with?

Lana:

- Please write your question or choose one of the options below:

What we do?

Our layers

Legal information


Book an appointment

visitor:

What is D&G Attorneys specialized in?

send

powered by VirtualSpirits


 Chat With Us

visitor:


What is D&G Attorneys specialized in?

Lana:

Here at ABC Legal, our partners and associates specialize in family law. We assist our clients in matters including divorce, inheritance, and estate law, among others. You can explore our specialties in the menu below:




Divorce Attorney



Inheritance

send

powered by VirtualSpirits

 Chat With Us

Book an appointment

visitor:

I want to book an appointment for Wednesday

Lana:

Here are the available slots for appointment on Wednesday, April 24 th .

Please choose preferred hour to continue:

10:00

11:00

14:00

16:00

17:30

visitor:

11:00

send

powered by VirtualSpirits



docassemble



CREATING A LAWYER IN A BOX: BUILDING USER- FRIENDLY INTERVIEWS WITH DOCASSEMBLE

Quinten Steenhuis, Greater
Boston Legal Services
@QSteenhuis /
nonprofittechy.com

<https://www.slideshare.net/QuintenSteenhuis/creating-a-lawyer-in-a-box-building-user-friendly-guided-interviews-with-docassemble>



GBLS / docassemble-template-builder-addin

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4

★ Star

6

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6

<> Code

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A Microsoft Word Add-in (2013+) that helps with building templates for Docassemble.org guided interviews

124 commits

3 branches

0 releases

3 contributors

MIT

Branch: master ▾

New pull request

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nonprofittechy Update README.md

Latest commit 0c53bb7 on Jun 14, 2018

build	Remove non-functional help button	10 months ago
public	new build	10 months ago
src	Merge changes - refactored search/replace code and added support to r...	10 months ago
.babelrc	polyfill for promise in es5	10 months ago
.gitignore	Fixed local ssl instructions, modified local manifest with unique ID	10 months ago

<https://github.com/GBLS/docassemble-template-builder-addin>

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January 29, 2018



<https://blog.rossintelligence.com/post/ross-new-coworker-eva>

WatchGuard and Cylance Webinar

Delivering Predictive Protection with Artificial Intelligence

May 8, 2019 - 8:00 AM PDT



https://secure.watchguard.com/WatchGuard_Cylance_AI_Webinar_Registration.html

ARTIFICIAL INTELLIGENCE

AI Is Within Reach for Small Business Marketing

It's time to level the marketing playing field.

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ARTIFICIAL INTELLIGENCE

This AI Predicts Online Trolling Before It Happens

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How Algorithms Can Predict Our Intentions Faster Than We Can

ARTIFICIAL INTELLIGENCE

AI Opportunities Abound, If You Know the Unexpected Places to Look

CHATBOTS

How to Create a Facebook Messenger Chatbot For Free Without Coding

<https://www.entrepreneur.com/article/325817>

Get a grip on your contracts.



IDENTIFY LEGAL MATERIAL

Automatically identify legal material among your sea of files and communications.



ORGANIZE AND TAG DOCUMENTS

Automatically group and tag documents into related clusters by content or metadata.



DE-DUPLICATE DOCUMENTS

Automatically match duplicate or near-duplicate documents like executed copies, revisions, and amendments.

<https://contrasuite.com/>

LexNLP Features

Information Extraction

Legal Terms

Extract Legal Terms

Tools for real-world data

Do stuff with text.

- Find dates like effective dates, termination dates, or delivery dates
- Find parties like persons and organizations
- Find durations like terms, notice periods, or assignment delays
- Find references to citations or regulations like “26 U.S.C. 501,” “26 CFR 31.3121,” or “655 F.3d 1013”
- Find references to courts or regulators
- Find controlling law and jurisdictions
- Find copyrights and trademarks
- Find definitions like “Default shall mean...”

```
>>> import lexnlp.extract.en.durations
>>> text = "This Agreement shall terminate in nine (9) months."
>>> print(list(lexnlp.extract.en.durations.get_durations(text)))
[('month', 9.0, 270.0)]
```

<https://contraxsuite.com/lexnlp-features/>

Hon. Xavier Rodriguez • United States District Court, Western Texas • San Antonio, Texas 78206 • (210) 472-6575

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Order date +

Motion analytics

Motion type

Motion type

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Motion type

Hon. Xavier Rodriguez • United States District Court, Western Texas • San Antonio, Texas 78206 • (210) 472-6575

Overview Dockets Outcomes **Motions** Expert challenges Appeals References (9,323)

Search within results

Q- Enter search terms here...

Filter by category

Motion type +

Case type +

Motion outcome +

Filing role +

Party +

Attorney +

Law firm +

Court +

Order date +

Order date +

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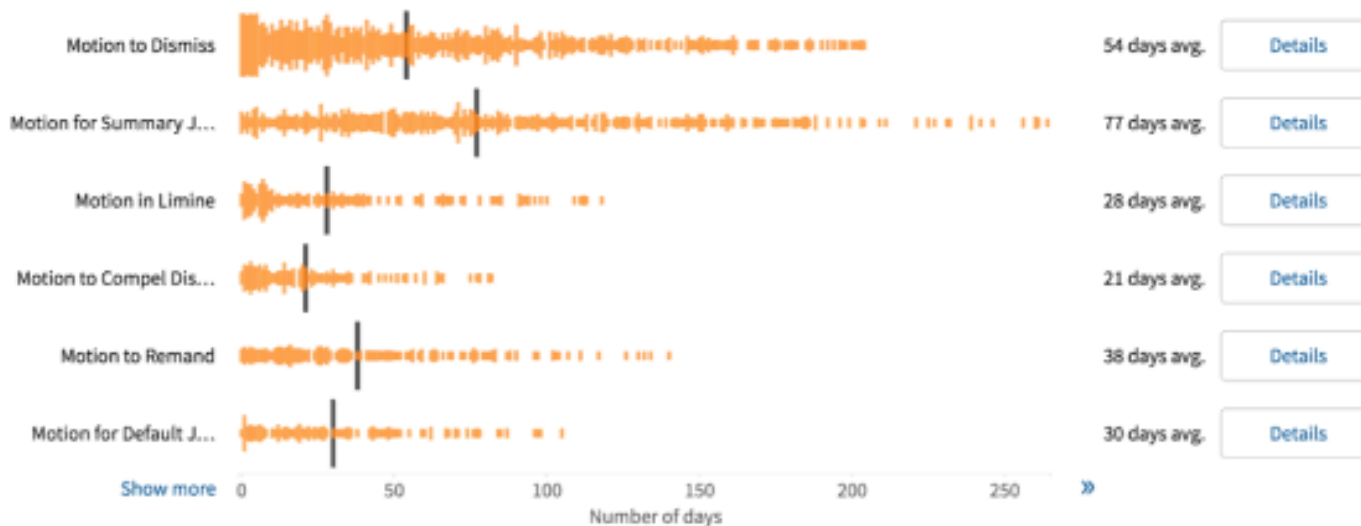
Order date +

Motion analytics

Motion type Case type Filing role Motion outcome Year

Chart Table

Outcome Time to rule



<https://legal.thomsonreuters.com/en/products/westlaw/edge>

Legal Analytics Platform

Leveraging the latest advances in computer science, together with our in-house legal expertise, Lex Machina has created a unique Legal Analytics Platform that enables you to craft successful strategies, win cases, and close business. Our Legal Analytics® Platform is delivered via on-demand subscription.

Analyze Judges and Courts

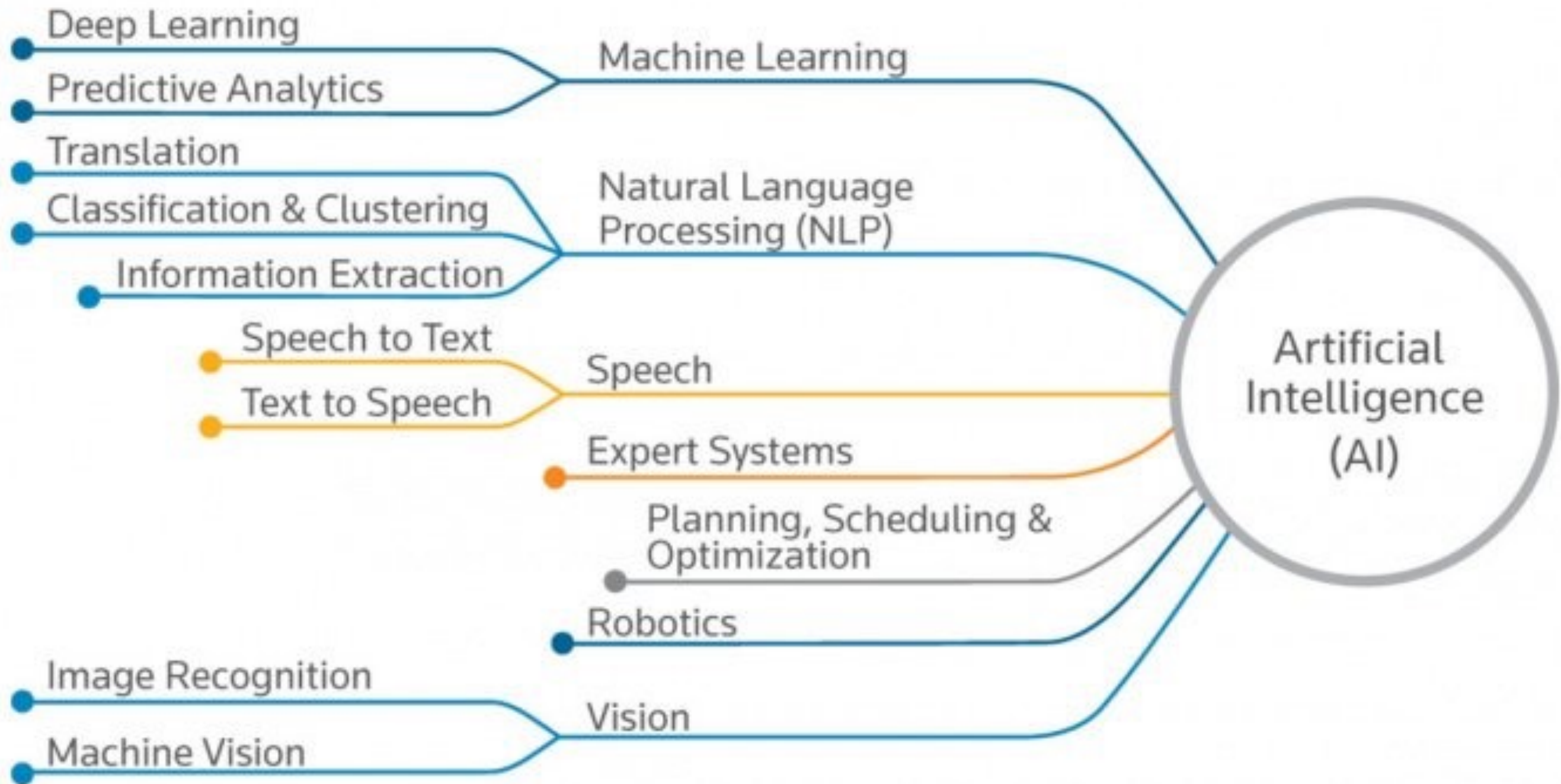
Would you like to know how Judge Sleet will likely respond to a motion to transfer? Use our [Motion Metrics Report](#) to view grant/deny rates. See how a specific judge compares to the national average. Click the hyperlinks in the chart to further explore the underlying motion-order chains. With Lex Machina, you can easily view:

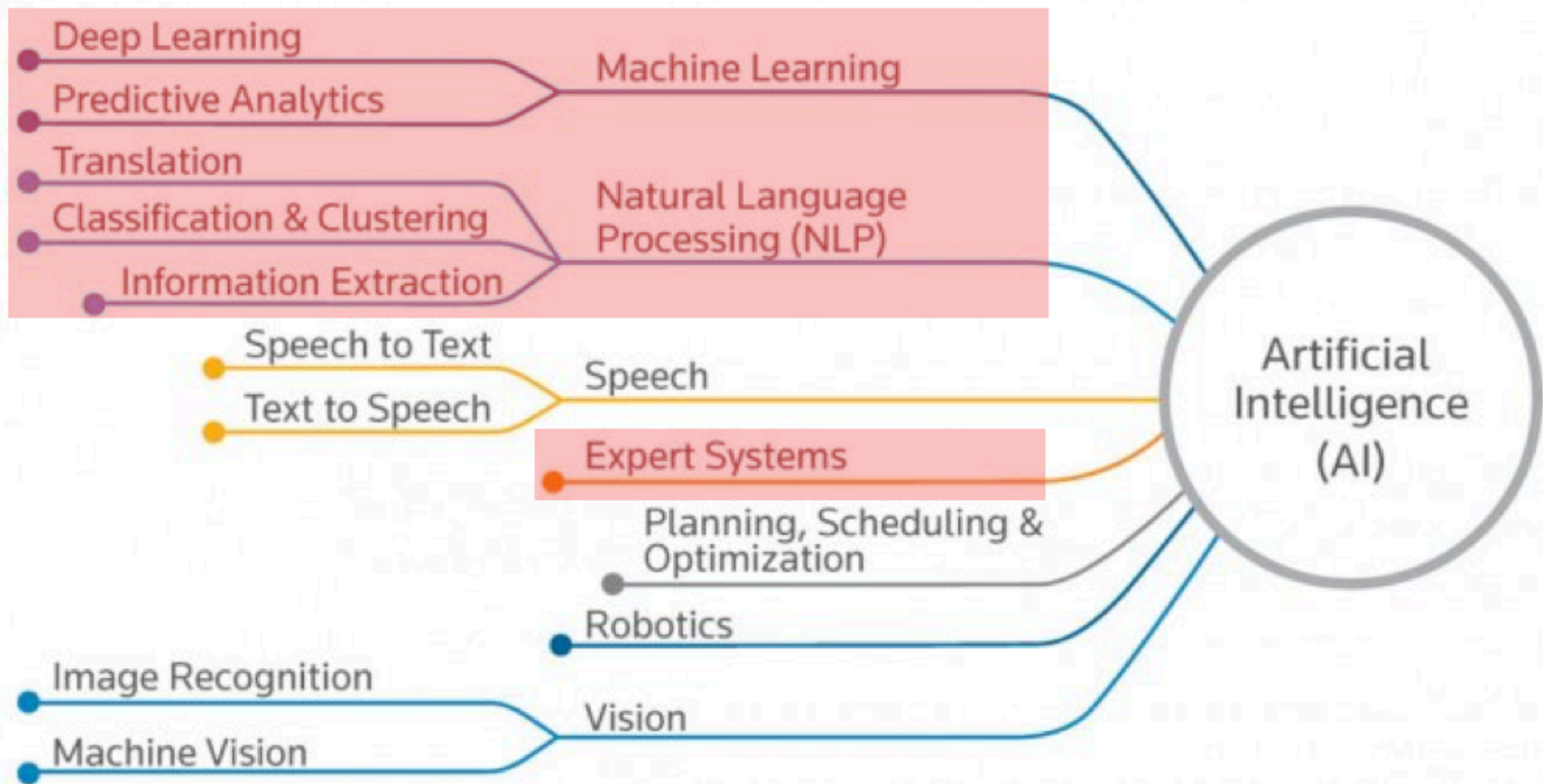
- How likely is a judge to grant or deny a specific motion?
- How long do cases take to get to a grant of a permanent injunction, to trial, or to termination before a judge?
- How likely is a judge to find infringement of a patent, fair use of a trademark, or a Securities Act violation?

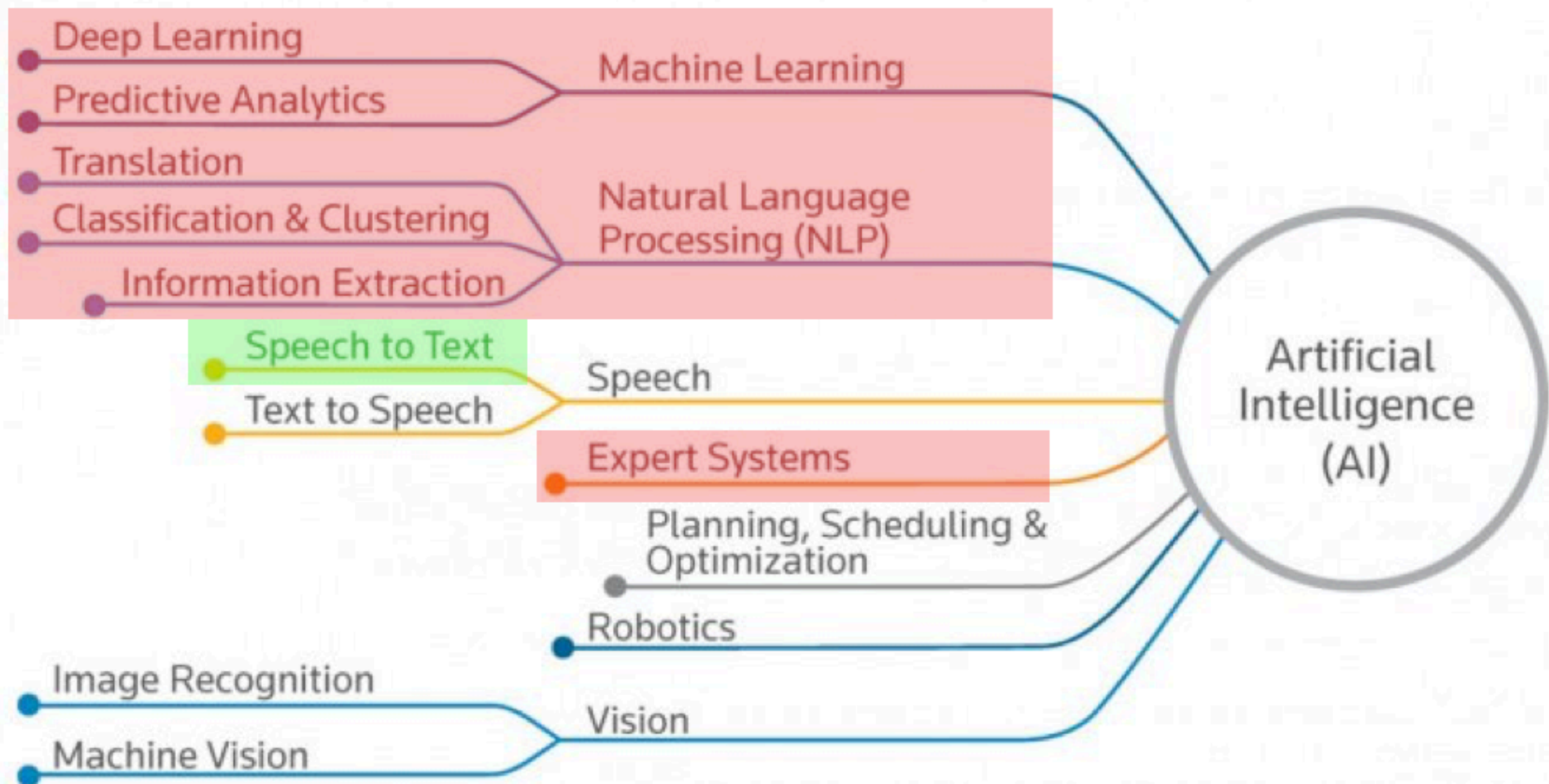


<https://lexmachina.com/legal-analytics/>

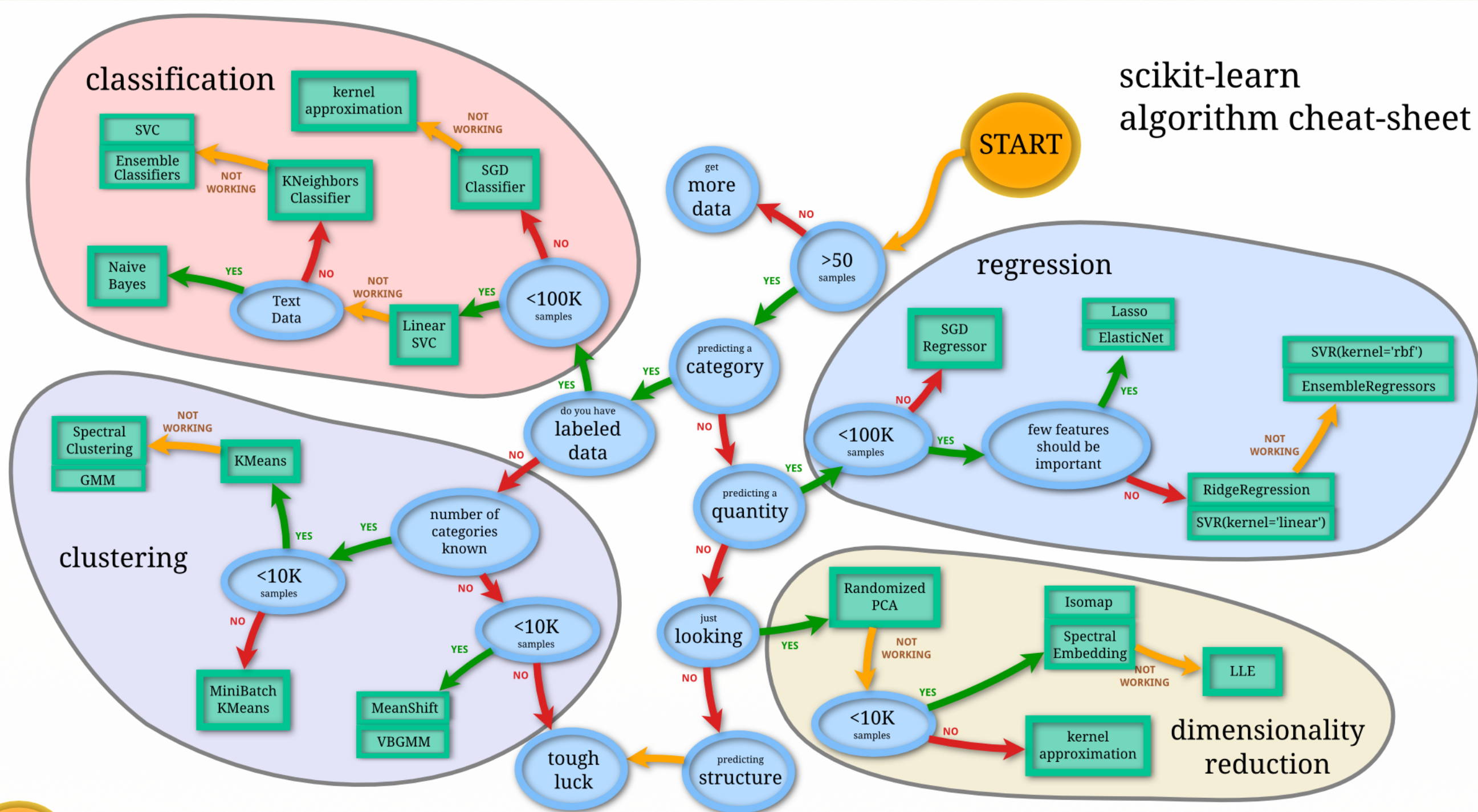
Things to Know







scikit-learn algorithm cheat-sheet



https://scikit-learn.org/stable/tutorial/machine_learning_map/

Remember that you have to...

train

Train

TRAIN!

Someone has to do it.

Attorneys make great trainers

<however, remember>



Technology is a two-edged sword...

... if you don't own or control it.

Who Owns Your Practice?

- ❖ You *can* develop your own AI
 - ❖ You will own it (exclusively)
 - ❖ You can tailor it as needed
 - ❖ Competitive advantage
- ❖ If you don't own the AI, know:
 - ❖ Permissions needed?
 - ❖ Who owns the training that you will do to the AI?
 - ❖ Will others use your work?



Mirandize Your AI Contract

- ❖ Do I have a right to my work? Will anything that I say or do be learned by the AI? Will what the AI learns from me be used against me in a court of law? Will I be remunerated for training your AI? If I cannot afford the AI in the future, will it be used by my clients?

The practice of law is (becoming)
very technology-driven

Are you ready?

Goals

- ❖ Learn the lingo
- ❖ Understand the functionality (and when it makes sense)
- ❖ Understand the security and ownership implications
- ❖ Incorporate AI into your practice
- ❖ Maintain competence
- ❖ Educate your clients

But I don't code!

You won't have to.

Predictive Coding 4.0 – Nine Key Points of Legal Document Review

Contrary to what some vendors will tell you, predictive coding 3.0, and now 4.0, methods are not rocket science. You do not have to be a TAR-whisperer or do nothing but search, like my A-team for TREC. With good software it is not really that hard at all. These methods do, however, require an attorney knowledgable in e-discovery and comfortable with software.



Most of this stuff is free



And it is getting better and easier to
use — RAPIDLY!

Feeling better?

Question?

Kurt Vonnegut

If you compete
with a slave...

...*you are* a slave.

Kurt Vonnegut, Player Piano (1952)

