

Actioning Artificial Intelligence Today

2018 is the year



Who am I

- CTO / Co-founder at Thinking Big
- Nerd from birth
- Living IT for the last 20 years
- @ronkmyers

Thinking Big

- IT consultancy based in Prince Edward Island
- Primary focus on Digital Process Re-engineering
- We love hard problems

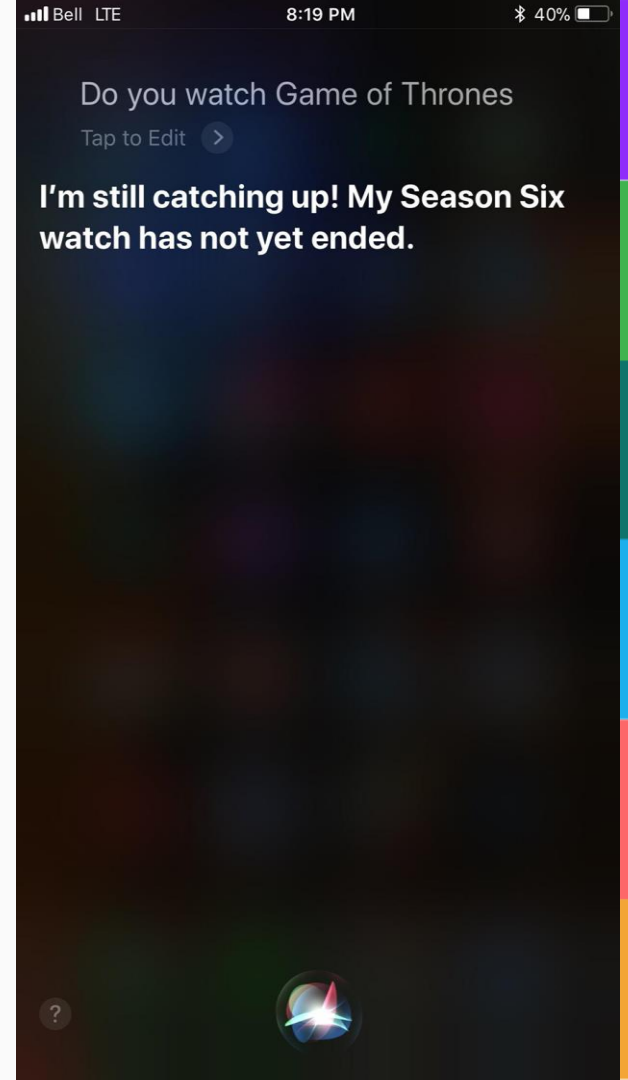
Levels of AI

- 1) Artificial Narrow Intelligence
- 2) Artificial General Intelligence
- 3) Artificial Superintelligence



Today

- 1) **Artificial Narrow Intelligence**
- 2) Artificial General Intelligence
- 3) Artificial Superintelligence



So What is Possible Today?

- A lot
- Deep processing understanding
- There are new classes of problems we can solve:
 - Scale
 - Systems which are trainable vs configurable
- The lego are the getting to the right size

Machine Learning is ready for production use today.

Enabling Decision Making

- Business
 - Wants to meet goals
 - Needs to apply rules
 - Adapt policies to new situations
- Computers:
 - are decisions enablers
 - don't understand what silly humans want
 - don't care about if they are wrong
- Developers
 - Traditional
 - translate business processes into decision making machines with **relatively fixed rules**.
 - when there was feedback / changes the rules would change in configuration / code
 - Now
 - translate process into decision making machines which **can learn**.
 - when there is feedback - it is possible to update the decision model

Theorem

- In 2018, your organization can use machine learning/AI to solve problems:
 - Or at least take the first step forward
 - Or you may already be (high five) and this may help, it helps me.
 - Or start collecting the data you need to
 - This may be:
 - Your largest backlog
 - Where current solutions demand too many human hours.
 - Something where a small team really has to focus and work hard
 - What sucks the most?
 - Something more the simple side of things to try it out
 - What decisions do you wish your organization would make faster? More accurately.

6 needs to Start integrating AI today

6 needs

- What have we learned working with organizations through this change:
 - you need to **identify a problem that needs innovation**
 - you need to **select technology to solve your problem**
 - you need **data**
 - you need to **plan for training**
 - you need to **schedule reviews of progress**
 - you need to **target practice**

Need 1: identify a problem that is in need of innovation

Veterans affairs

- Identify documents with **business value**.

Thinking Big

- Identify valuable **RFPs**.
- Great opportunities were missed by not knowing about them
- Or, we understood the opportunity too late
 - review takes time

Need 2: select technology to solve your problem

- Choose which vendor tool set fits your business and problem
 - This will take investigation

Need 3: data

This will be different in depending on your situation.

But you will likely need sizable amounts of data.

Need 4: plan for training

File Edit View Window Help

Pending Files

Has business value: 

Confidence: 83%



JanuaryReport.docx
November 15, 2014

[Blurred document content]

	Extension	.docx
	Filename	JanuaryReport.docx
	Dictionary Correlation	1,924,824
	Emails found	6
	Gov emails found	3
	Urls found	1
	Gov urls found	0
	File Size	21MB
	Last Modified	2013-03-08
	Phone Numbers	0
	Nine digit numbers	3
	Dates found	2
	Protected A: NO	
	Protected B: NO	
	Secret: NO	
	Top Secret: NO	

APPROVE

DISAPPROVE

1 of 4



Need 5: schedule reviews of progress

- AI planning sprint meeting
- Review progress/performance with team members
- We still need to do this after production
 - **AI is generally not a set it and forget it technology**
- This should be a team review:
 - Management
 - Experts (trainers)
 - Technology
 - Clients

Best if all are in attendance at all reviews.

Need 6: target practice

- Test in parallel with current workflow
 - If one exists
- Define what you want the results to be.
- Write it down

Easy, right?

Stay focused

Implementing AI is hard work and should be taken seriously

Thanks!

