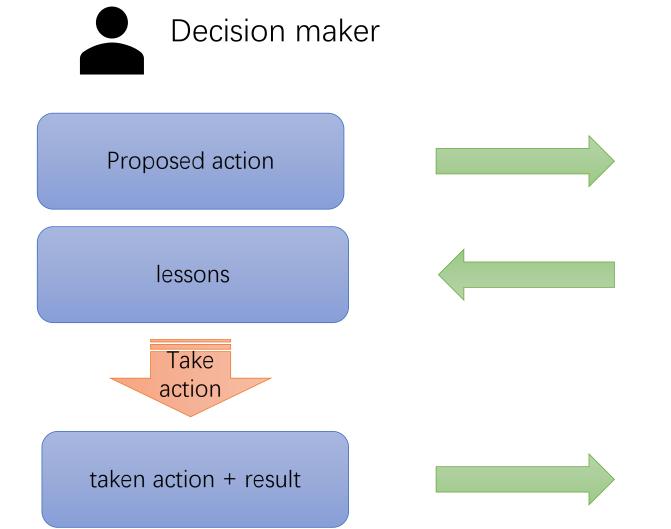
A database system to reference past actions

Actiondex

Overview





Retrieve historical actions **similar** to the proposed action

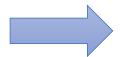
Insert historical action

Define similar action? Break down a clinical trial procedure

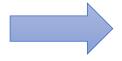


New lesson

Trial on adolescents in spring was delayed



Partnered with Lyft to help dementia come to the trial sites





Type through Actiondex interface

Drug

Type

Price

Patients

Occupation

Age

Disease

Demography

Location

Temperature

Duration

Time

Background

Phase

Sub-phases

Result

Lesson



Store into Actiondex

• Patients:

Occupation: students

• Age: 16

• Time: spring

Result: delayed

Lesson: consider school

schedule

Patients:

Disease: dementia

Result: success

Lesson: need to help them with transportation

Next time we conduct a clinical trial...



Proposed action

Trial on drug XX with young patients in winter





Type through Actiondex interface

Type XX
Price
Patients
Occupation students
Age 15
Disease
Demography
Location
Temperature
Duration

Time winter

Background

Sub-phases

Phase

Result

Lesson

Query similar actions



- Patients:
 - Occupation: students
 - Age: 16
- Time: spring
- Result: delayed
- Lesson: consider school schedule
- Drug:
 - Type: XX
- Result: success
- Lesson: consider valid period for XX

More cases...

Want it general?

Break down a general procedure

• Who	Person table
• Title	fields
• Subteam	fields
• Phase ———	Phase table
Sub-phases	fields
 Material 	fields
• Cost	fields
•	fields
• result	fields

Procedure table

Want it fancier? Siamese Recurrent Architectures

- #text-similarity @ github
- Siamese neural network is a class of neural network architectures that contain two or more identical subnetworks.
- Siamese NNs are popular among tasks that involve finding similarity or relationship between 2 comparable things

