

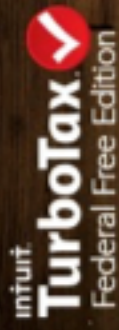
Corpus Legis
Online Library of Computational Law

CodeX: The Stanford Center for Legal Informatics

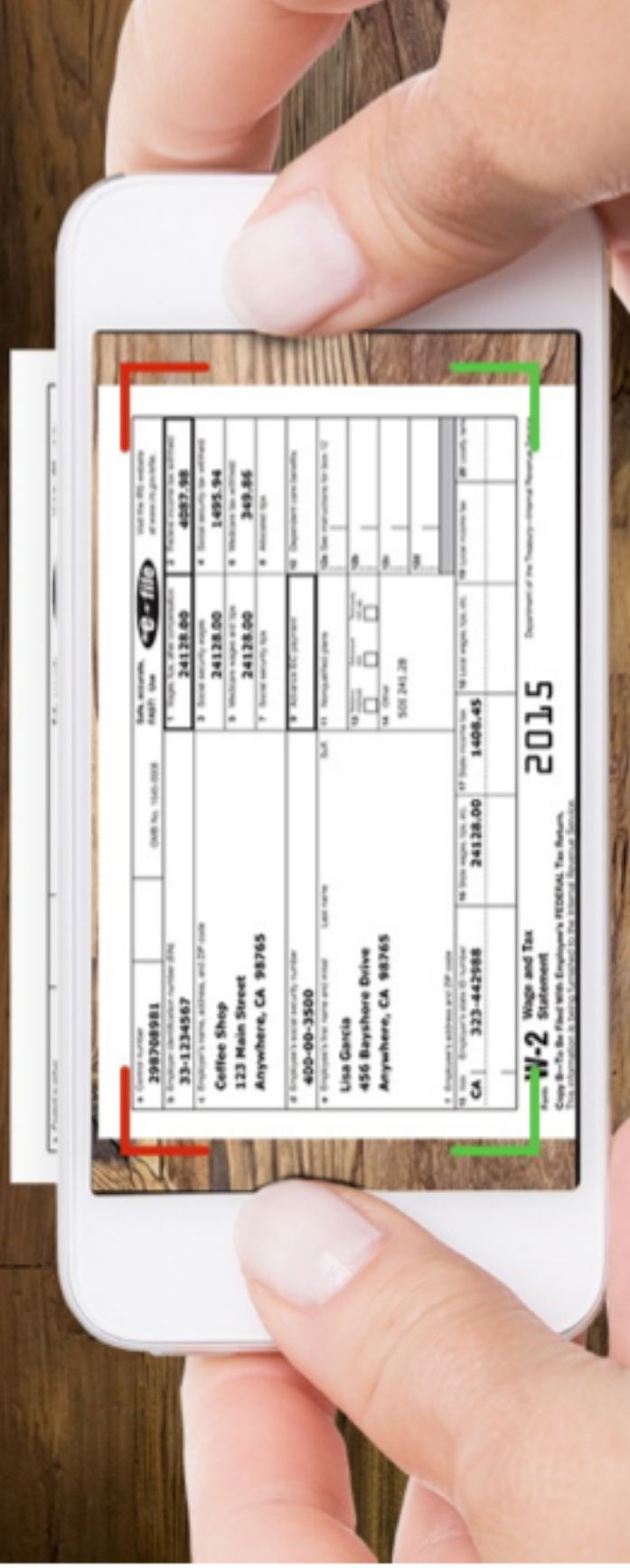
Computational Law

Computational Law is
that branch of legal informatics concerned with
the **mechanization of legal analysis**.

Legal Calculations



Snap. Tap. Done.™



Ubiquitous Computing

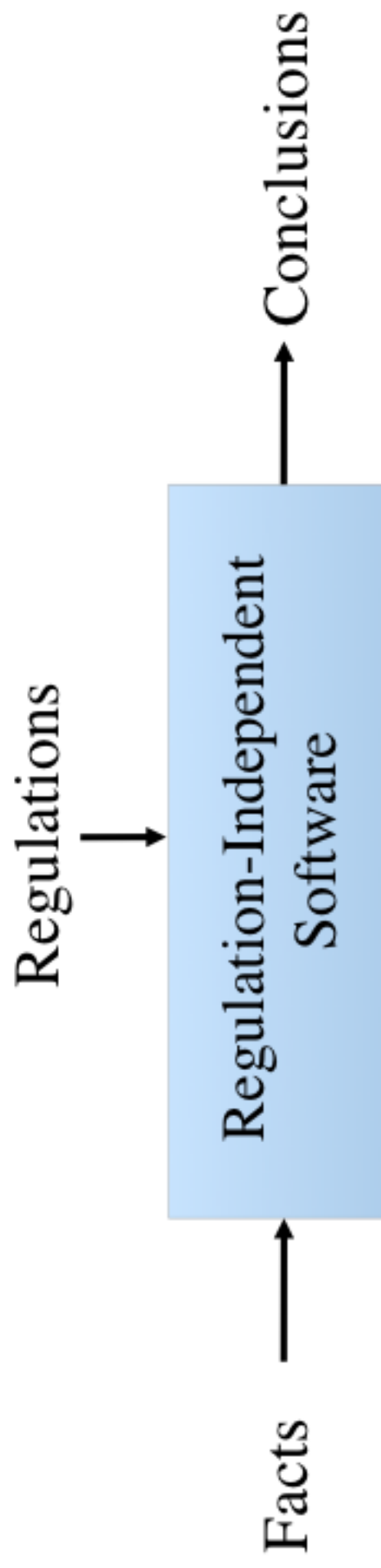


 WATCH

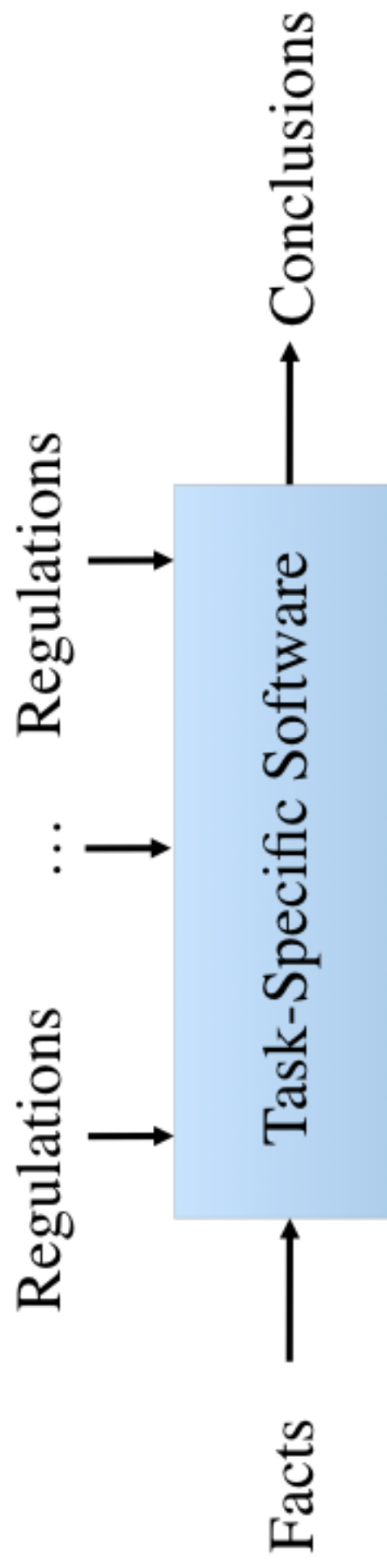
Computational Law as Program



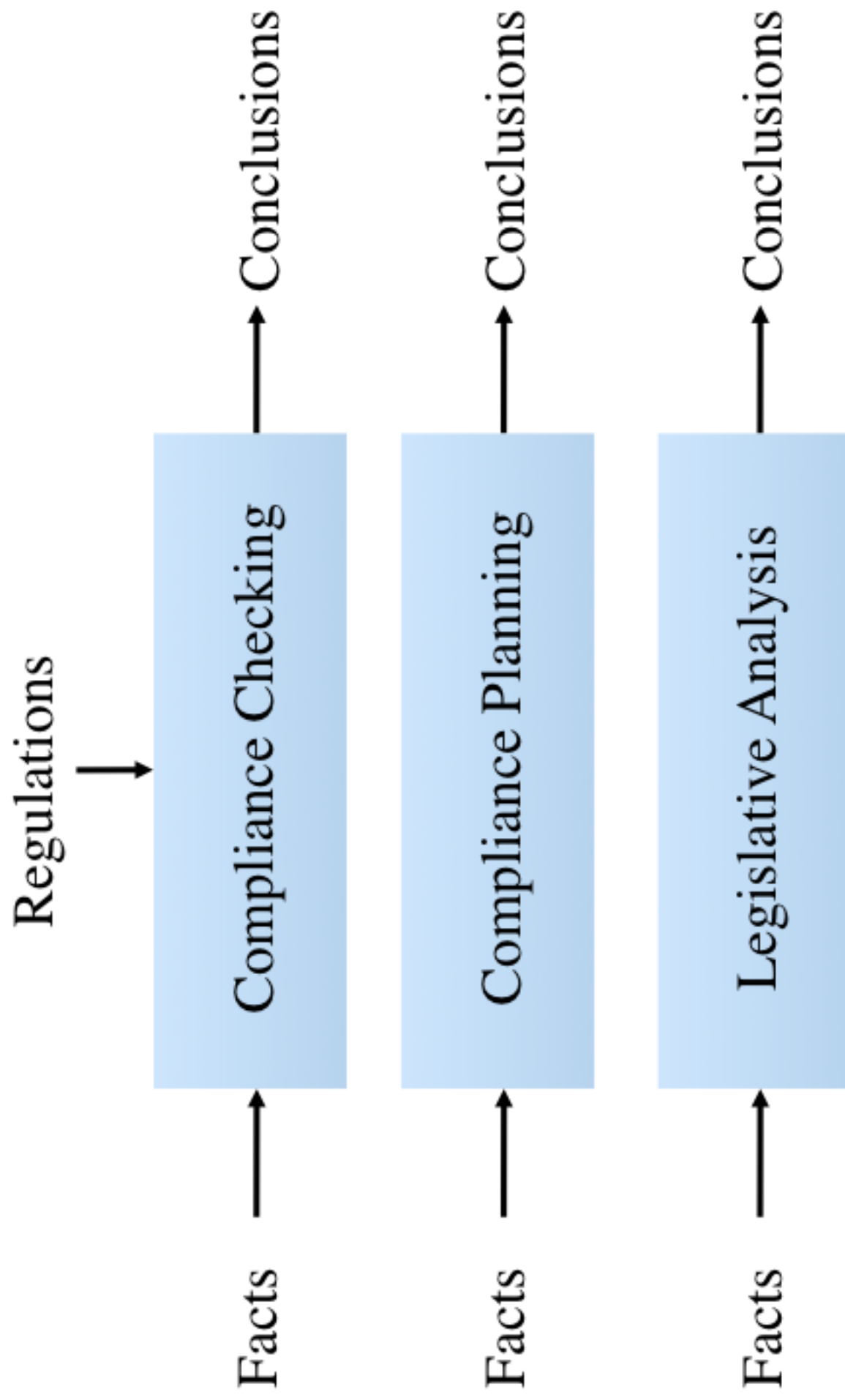
Regulations as Data



One System, Multiple Regulations



One Representation, Multiple Uses



Facts

Ken is in office 22.

```
office(ken, 22)
```

John manages Ken.

```
manages(john, ken)
```

Definitions of Concepts

Office mates are people who share an office.

```
officemate(X, Y) :- office(X, Z) ^ office(Y, Z)
```

Definitions of Legality

Managers and subordinates may not be office mates.

```
illegal :- manages(X, Y) ^ officemate(X, Y)
```

<http://logicprogramming.stanford.edu>

Interpreter and Compiler (<http://epilog.stanford.edu>)

originally developed in Lisp

now supported in Javascript

Java version being developed

Web-Based IDE

Schema development and mapping

Sample dataset management

Rule editor

WYSIWYG evaluator

Standard datasets (e.g. countries, states)

Standard rulesets (e.g. units conversion)

Worksheets

Create dynamic, interactive web pages.
Publish online for personal or public use.
Interlink to support collaborative work.

Public

Click here to access
public worksheets.

Private

Click here to manage
your own worksheets.

Cloud-based. No need to install hardware or software.
Do It Yourself. No traditional programming required.
Easy to manage. Dashboards and drop down lists.

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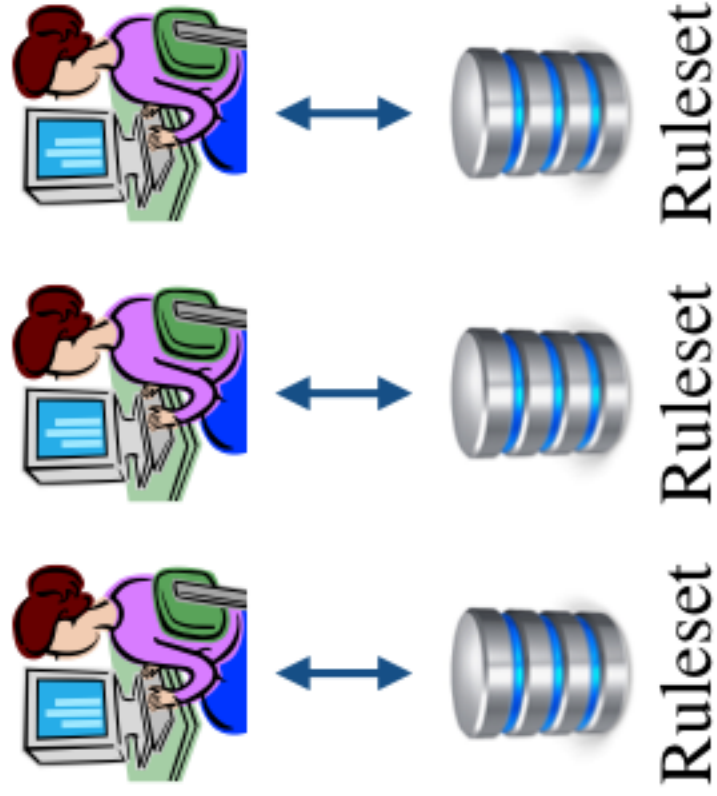
Re-imagine Professional Services with Artificial Intelligence

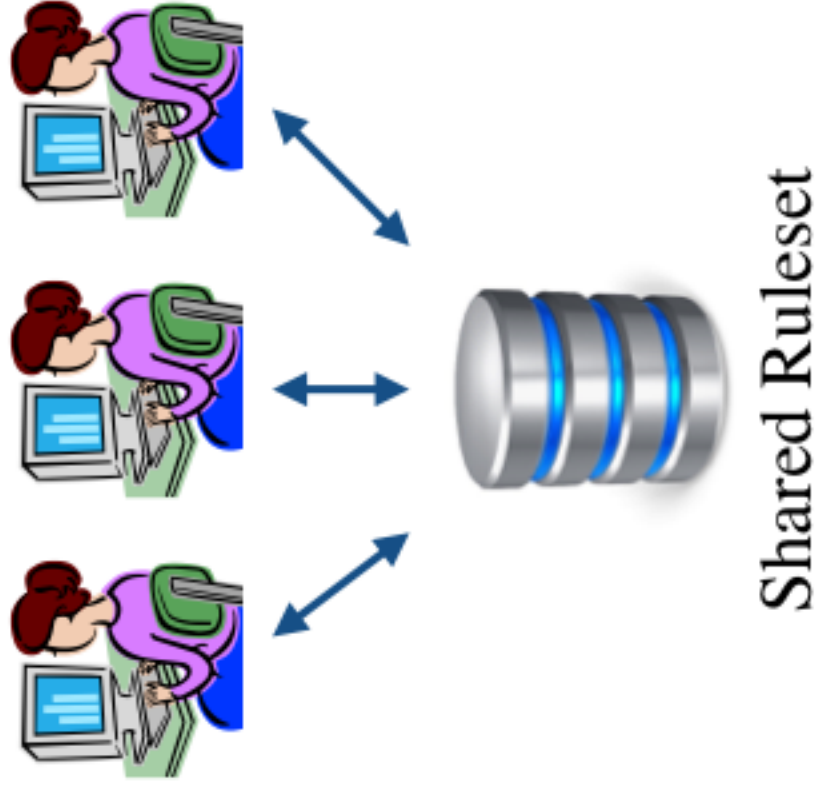
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with Neota Logic AI powered applications

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Individual, Redundant Rule Authoring





Corpus Legis is an online library
of regulations
encoded in computable form.

<http://corpuslegis.org>

Governmental Regulations

- Multiple branches - executive, judicial, possibly legislative
- Multiple jurisdictions - federal, state, local

Organizational Regulations

- Academic Requirements of universities

Contracts with Gorillas

- Health, Auto, Homeowners insurance contracts

Games! (According to Hoyle)

- chess, checkers, etc.
- educational value (and fun)
- <http://gamemaster.stanford.edu>

Feature Search

Jurisdiction (e.g. USA, California, San Jose)

Topic (e.g. alimony, taxes)

“Semantic” search - “answers not documents”

Input - datasets for real or hypothetical scenarios

Output - analysis and applicable rules

Change analysis

Input - hypothetical changes to rules

Output - aggregate results on standard datasets

System Support

Interactive development environment (Sierra)

Standard datasets and rulesets

Data integration service to deal with differences in schemas

Authors

CodeX members, affiliates, and Complaw Clinic students

Wikipedia Style Community

Regulators

Arrangement

Open Source development environment

Potential commercial arrangements between authors, users



CODEx

The Stanford Center for Legal Informatics

Legal Empowerment through Information Technology