



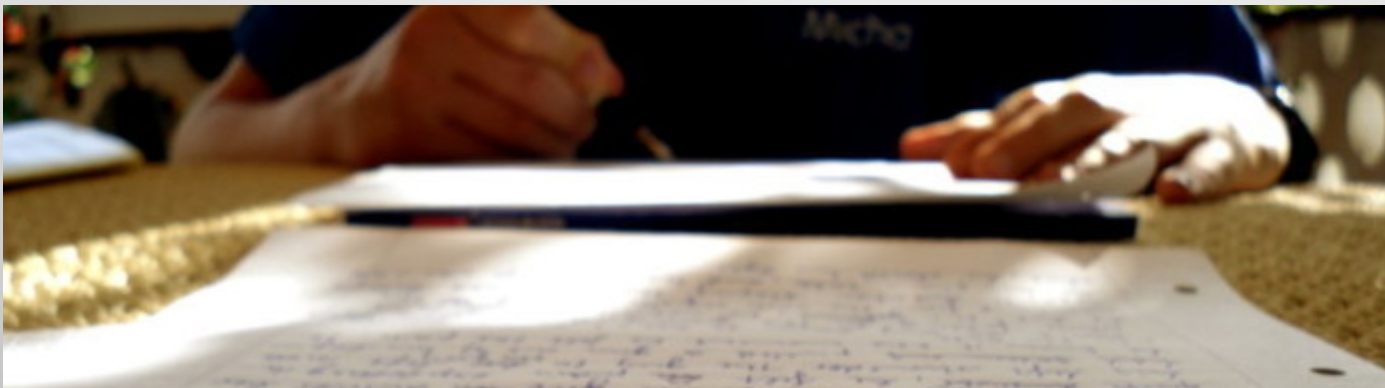
# ARGUMENT

TOOLS THAT EXCITE LEGAL PROFESSIONALS  
(AND MANY OTHERS)



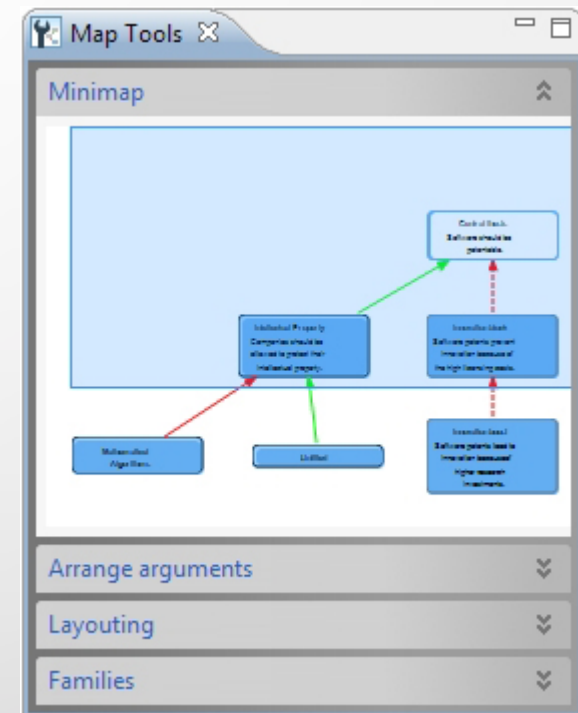
# WHAT'S THE PROBLEM?

- LEGAL PROFESSIONALS WHO DO THEIR HOMEWORK WIN MORE CASES.
- WHY IS CONSTRUCTING AN ARGUMENT SO MUCH WORK?
  - LOOK UP LAWS AND EARLIER LAWSUITS;
  - COLLECT ALL THE EVIDENCE;
  - ORGANIZE IT INTO AN ARGUMENT;
  - REDO ALL THE WORK WHEN SOMETHING HAPPENS ALONG THE WAY.



# WHY IS THIS SO MUCH FUN? (AT LEAST... FOR US IN COMPUTER SCIENCE 😊)

- DISCOVER THE STRUCTURES OF ARGUMENTATION
  - HOW DO OTHERS DO IT?
  - CAN WE FORMALIZE IT FOR MAKING A TOOL?



# WHY IS THIS SO MUCH FUN?

## (AT LEAST... FOR US IN COMPUTER SCIENCE 😊)

- WE LIKE TO INTEGRATE:
  - DECORATE TREES FULL OF STATEMENTS
  - INTEGRATE WITH DOCUMENTS (EVIDENCE)
  - INTEGRATE WITH LEGAL WEBSITES (GROUNDING)

- WE LOVE MAKING SERIOUS PROGRAMS!



The image shows a stack of manila folders on the right and a hotel registration card on the left. The card is from the Hilton Hotel, Albuquerque, New Mexico, with number N° 65841. It contains handwritten information for a guest named Mary Gold, including address, dates, and a signature.

Welcome **Hilton Hotel** N° 65841  
ALBUQUERQUE, NEW MEXICO

NAME Mary Gold

STREET 6222 Broadway City Blvd. N.W., Pa.

FIRM Farm & Forest

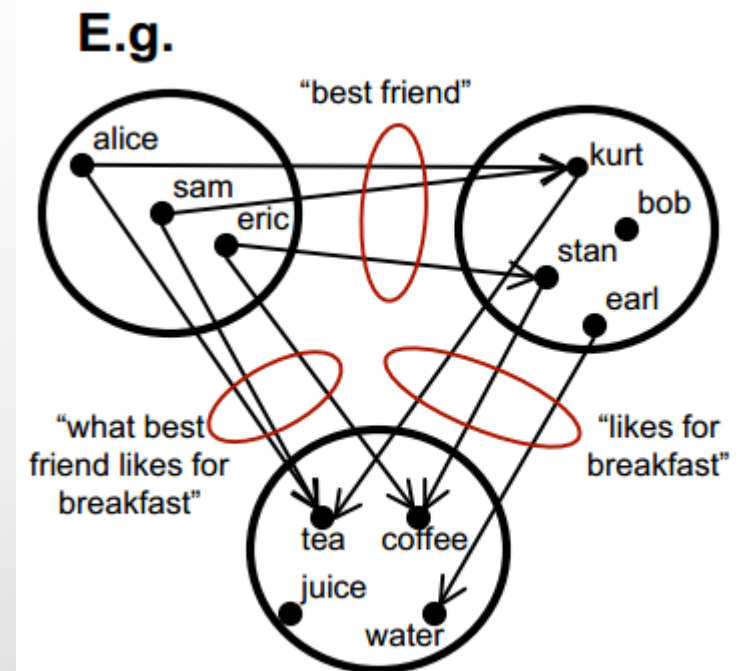
ARRIVED 6-3-65 ROOM 1001 RATE 13 dollars CLERK OK BAGGAGE

REMARKS: until 9 A.M.

# WHY IS THIS SO MUCH FUN?

## (AT LEAST... FOR US IN COMPUTER SCIENCE 😊)

- PROGRAMMING WITH RELATION ALGEBRA
  - CURIOUS: DOES RELATION ALGEBRA REALLY WORK?
  - THE FUN OF SEEING THEORY WORK IN PRACTICE.
- IT'S EXCITING TO SEE WORKING SOFTWARE COME OUT OF ALGEBRA!



# CAN YOU DO THIS?

- USE AN EXPERIMENTAL LANGUAGE, AMPERSAND, TO CONSTRUCT INFORMATION SYSTEMS.
- JOIN IN A PROJECT, “MIRRORME”, IN WHICH WE BUILD ARGUMENT ASSISTANCE SYSTEM.
- COLLABORATE OVER THE INTERNET WITH RESEARCHERS IN HOLLAND



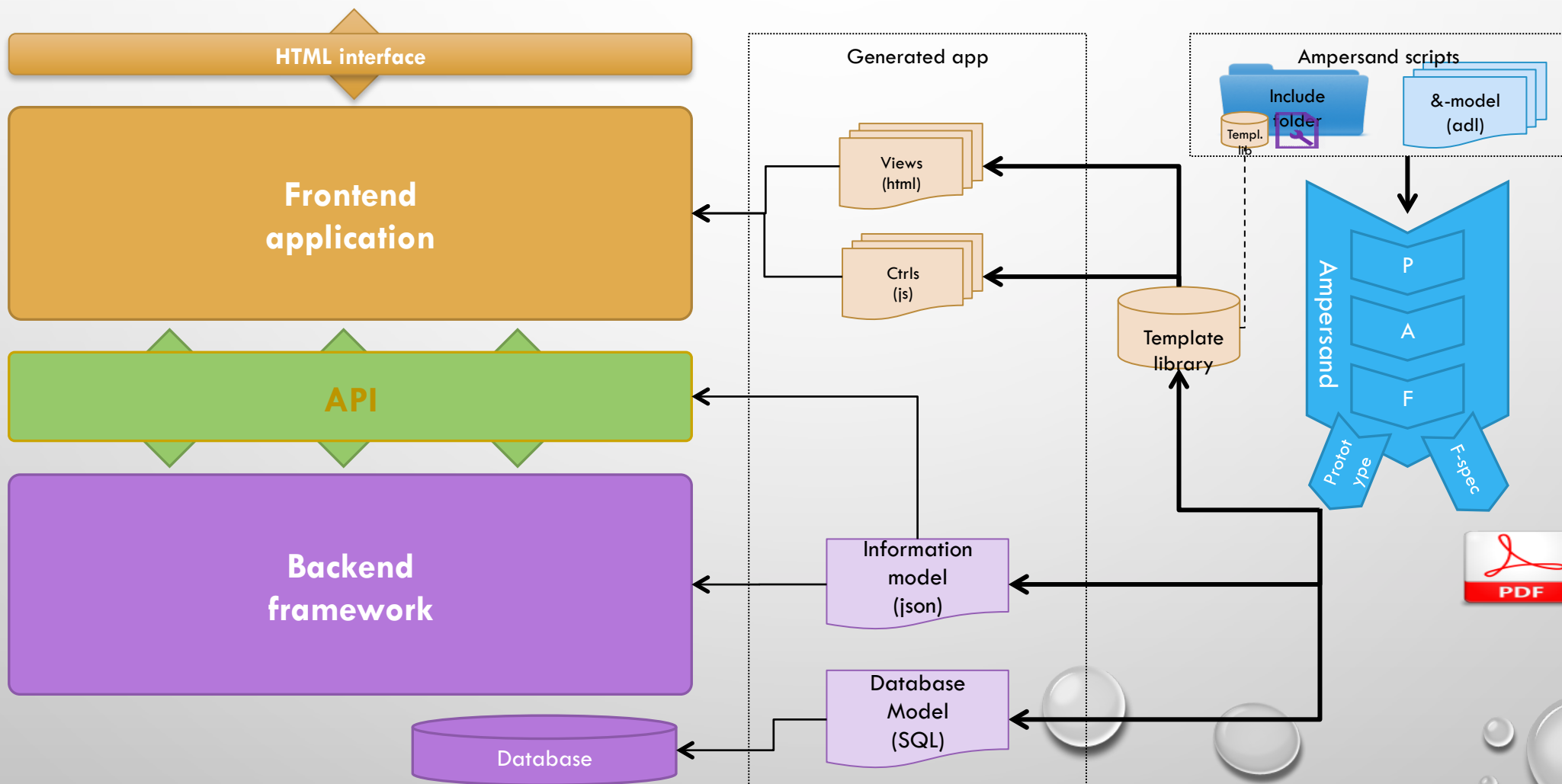


# WHAT RESULT ARE WE AIMING AT?

- BEAUTIFUL SOFTWARE THAT WORKS
- LEGAL PROFESSIONALS (AND OTHERS WHO MAKE ARGUMENTS) WHO LOVE IT.



# WHAT DOES IT LOOK LIKE?





# INFO

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- FOR AMPERSAND: [HTTP://WIKI.TARSKI.NL/](http://wiki.tarski.nl/)
- FOR ARGUMENT ASSISTANCE: I HAVE PUT SOME LITERATURE FOR YOU ON THE HANDOUT “LEGAL REASONING”.

