

Benedict

The smart way to meet



Struct by Lightning

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Sponsored by



What is Benedict?

Our project is composed of two parts: the **meeting**, and the **smart assistant** named Benedict.

- The meeting software we use is going to be described in this triangle, and in the bottom-left triangle.
- The smart assistant software will be described in the bottom-right triangle.

Group Meetings

- Create custom groups
- Video and text chat
- Persistent chat history

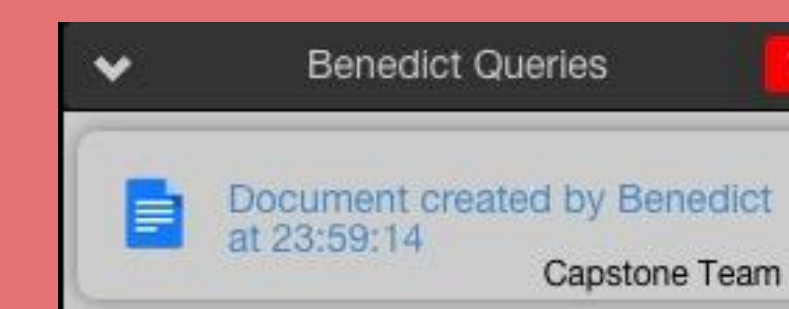
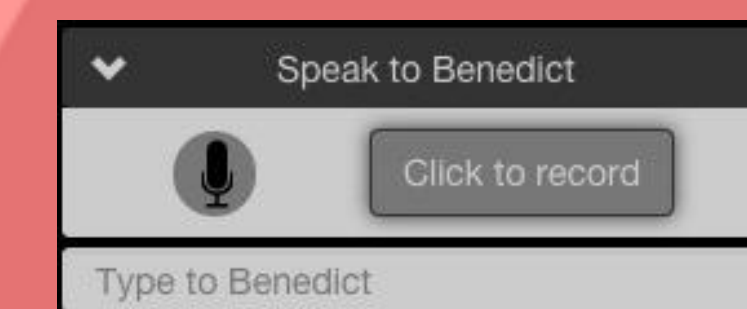


Benedict's Features



Smart Assistant

- Ask questions, get answers
- Edit shared documents
- Schedule calendar events
- Find a time that works for everyone



Problem

Communication, collaboration, and information—these are the resources that foster innovation. With the progression of technology, communication has become instantaneous, collaboration ubiquitous, and the retrieval of information effortless. Can we create a technology that unifies these resources in a context where they all naturally come together: the formal meeting?

Solution

Meet Benedict, the smart assistant integrated into a video web conferencing application. With personalized meeting rooms utilizing P2P video and chat, he brings you a communication platform. Equipped with real time access to information resources, he retrieves answers to your every question. Through customized scheduling, and Google Docs and Drawings, he streamlines your collaboration.

Thanks to

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Technologies

P2P Handling



icecomm.io

WebRTC

Hosting



Servers



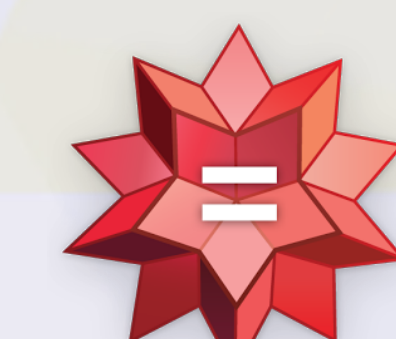
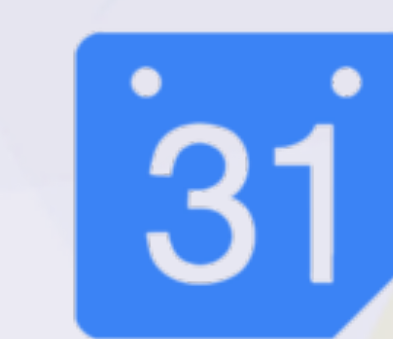
Browsers



Front End



APIs Connected



Knowledge Core



NLTK

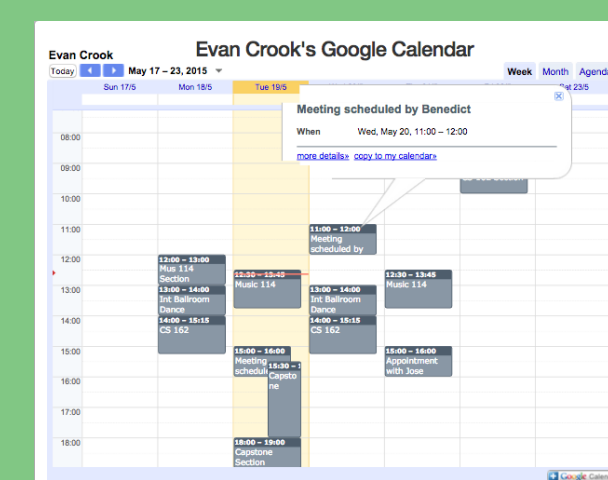
Databases



Log Ins



Scheduling

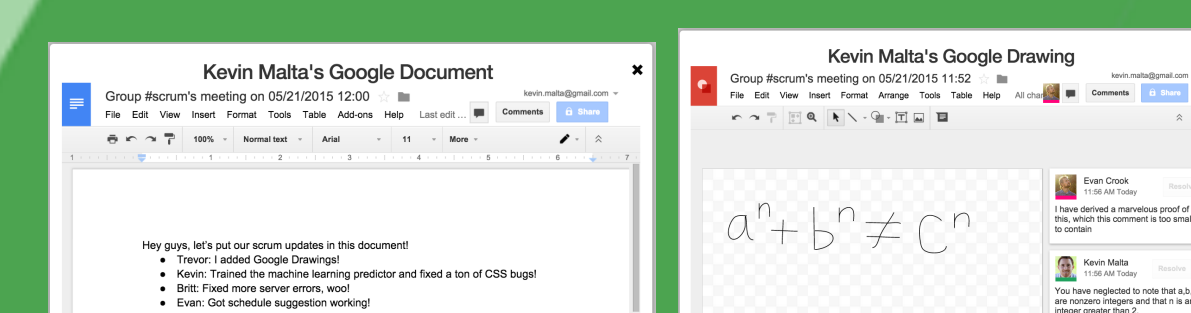


- Ask Benedict to schedule a meeting for a specific date and time
- Request a list of times everyone is available, using our bitwise scheduling algorithm

Meeting Tools

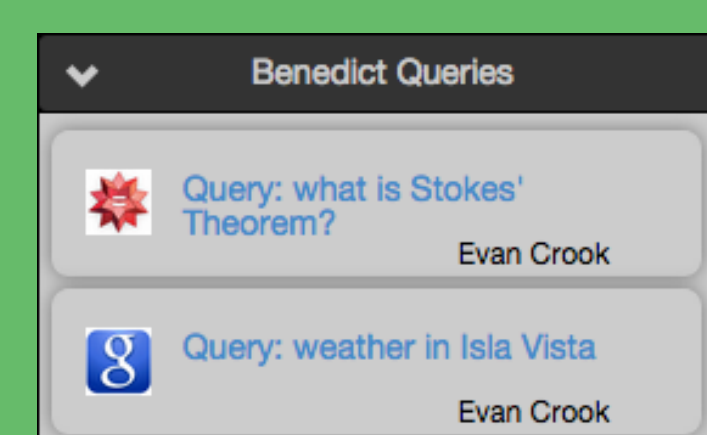


Share and Sketch Ideas



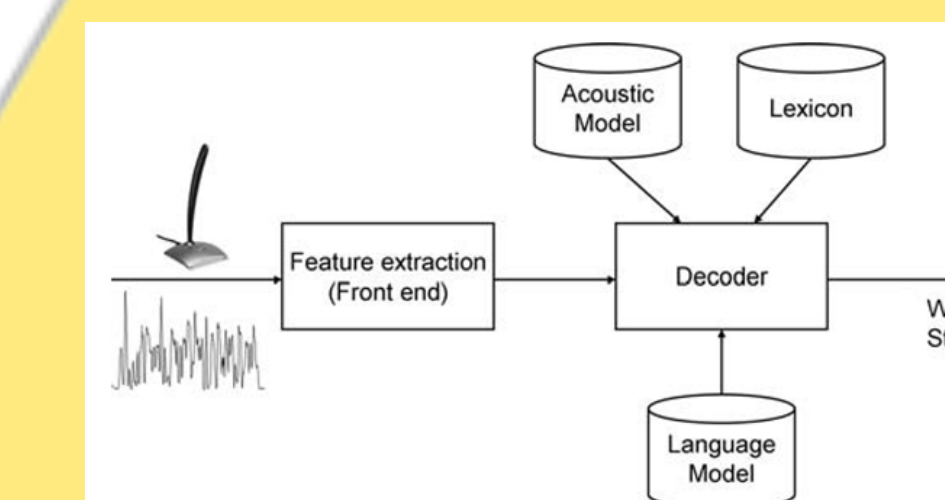
- Ask Benedict to open up a document or drawing for you
- Everyone can collaboratively edit, so you can develop your ideas together

Answer Questions



- Utilizes Wolfram Alpha, Wikipedia and Google Search to bring you answers
- Our natural language processing and machine learning algorithms select the best API for every query

Google Speech

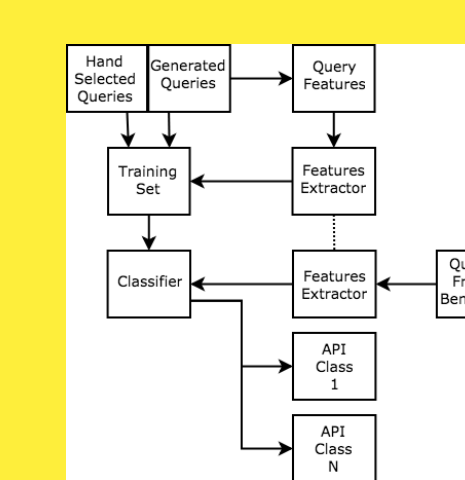


- Speech is recorded and processed by Google Speech Recognition API
- The top 5 hypotheses are analyzed by our Natural Language Processing Unit

Benedict's Brain

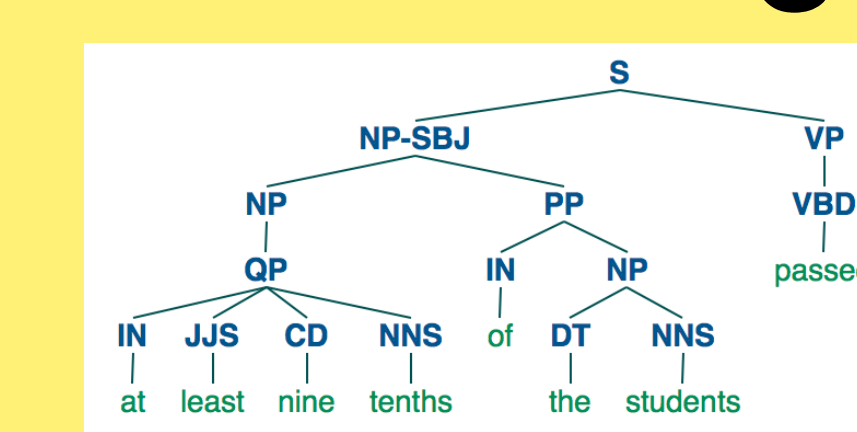


Machine Learning



- We use a Bernoulli Naive Bayesian Classifier for our machine learning algorithm
- Our classifier is trained on a set of over 5 thousand hand selected and generated queries

Natural Language Processing



- We utilize NLTK to generate a tree composed of words with corresponding parts-of-speech
- We parse these trees and apply grammatical analysis to obtain meaningful data