



The Journey of a Google Voice Intern

6 months as a software engineer

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Features:

- One number
- Voicemail transcription
- ...

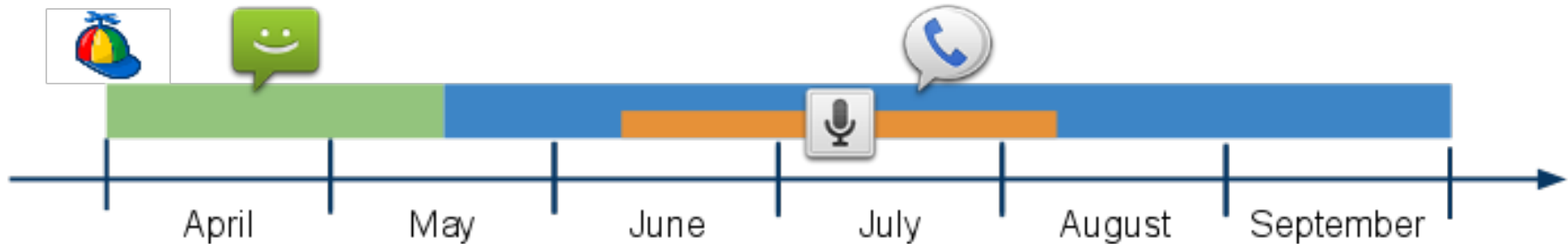
Timeline



Integration with Android's MMS app



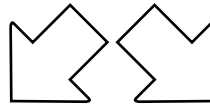
Improving the Google Voice SMS experience
An interface for Voice Search to send SMS



MMS Integration



Idea: GV UI should disappear



Google Voice ☐

1. SendingSmsService
 - a. Queue, retry, fail messages
 - b. Notify MMS app of result
2. Broadcast SMS composition notification
3. Synchronizer within GV (?)
4. Synchronizer processes notifications to sync databases
5. Remove SMS UI and send SMS view intent to MMS
6. Support MMS
 - a. Add support by network
 - b. Update Synchronizer to sync MMS as well

MMS (native SMS app)

1. Public routing API
 - a. Ask which application to use
 - b. Accept and process GV sent SMS status code
2. Accept GV SMS composition broadcast (and return afterwards)
3. Allow synchronization
 - a. Augment database with fields for to/from
 - b. Read API for SMS
 - c. Throw "New message" notification to user for foreign SMS
4. Allow efficient synchronization:
 - a. Notify GV of all database changes
 - b. Accept notifications of GV
5. -
6. Add API for MMS database

MMS Integration no more...



What went wrong?

- Cross-team
- Slow on GV side
- Change of goals: no more full integration

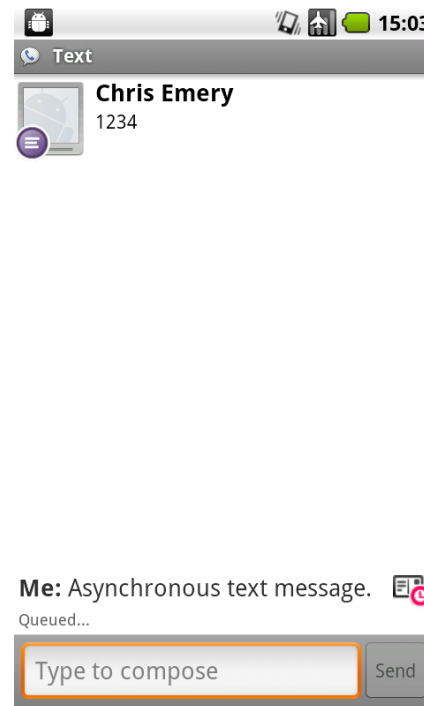
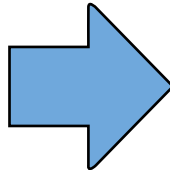
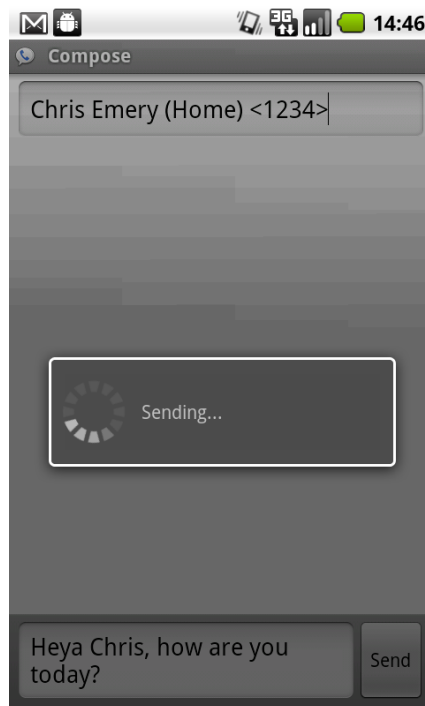


SMS Experience

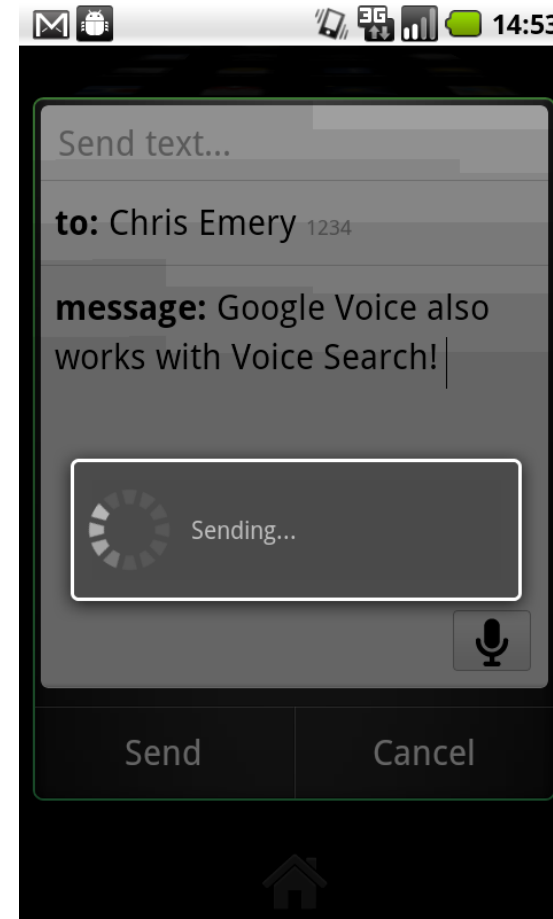
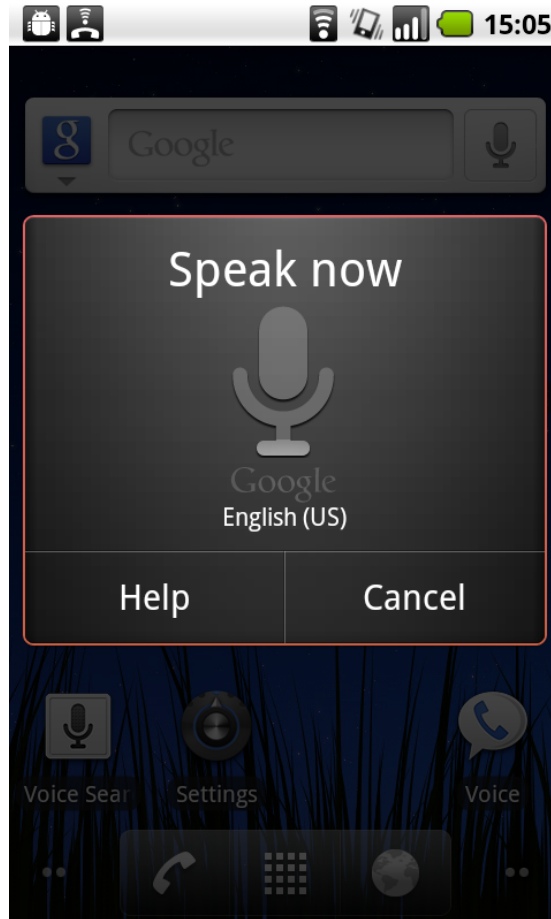


Changed focus to improving the SMS experience in GV:

Asynchronous. Persistent. More Feedback.

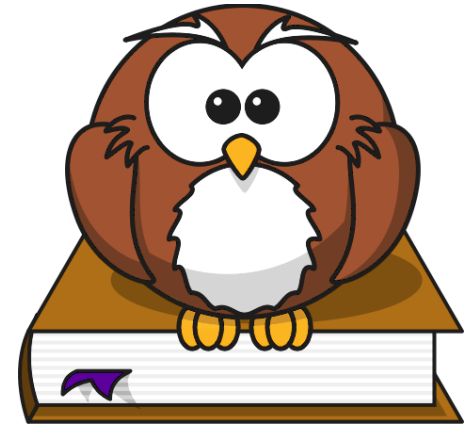


Voice Search Interface



Lessons learned

- Software Engineering
- Team software development
- Work-flow supporting tools
- Testing
- Flexibility



Impressions

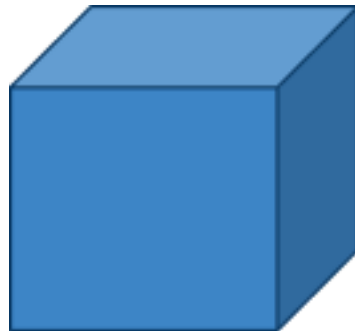
- Company jargon is difficult for newcomers
 - Not always challenging problems
 - Inter-team communication slows down development
-
- + Very competent colleagues
 - + Phenomenal working environment
 - + "It's not all about money"-feeling



Conclusion

2 features: Asynchronous SMS & Voice Search
Valuable experience
Spoiled for other work environments

Thank you!



Questions?