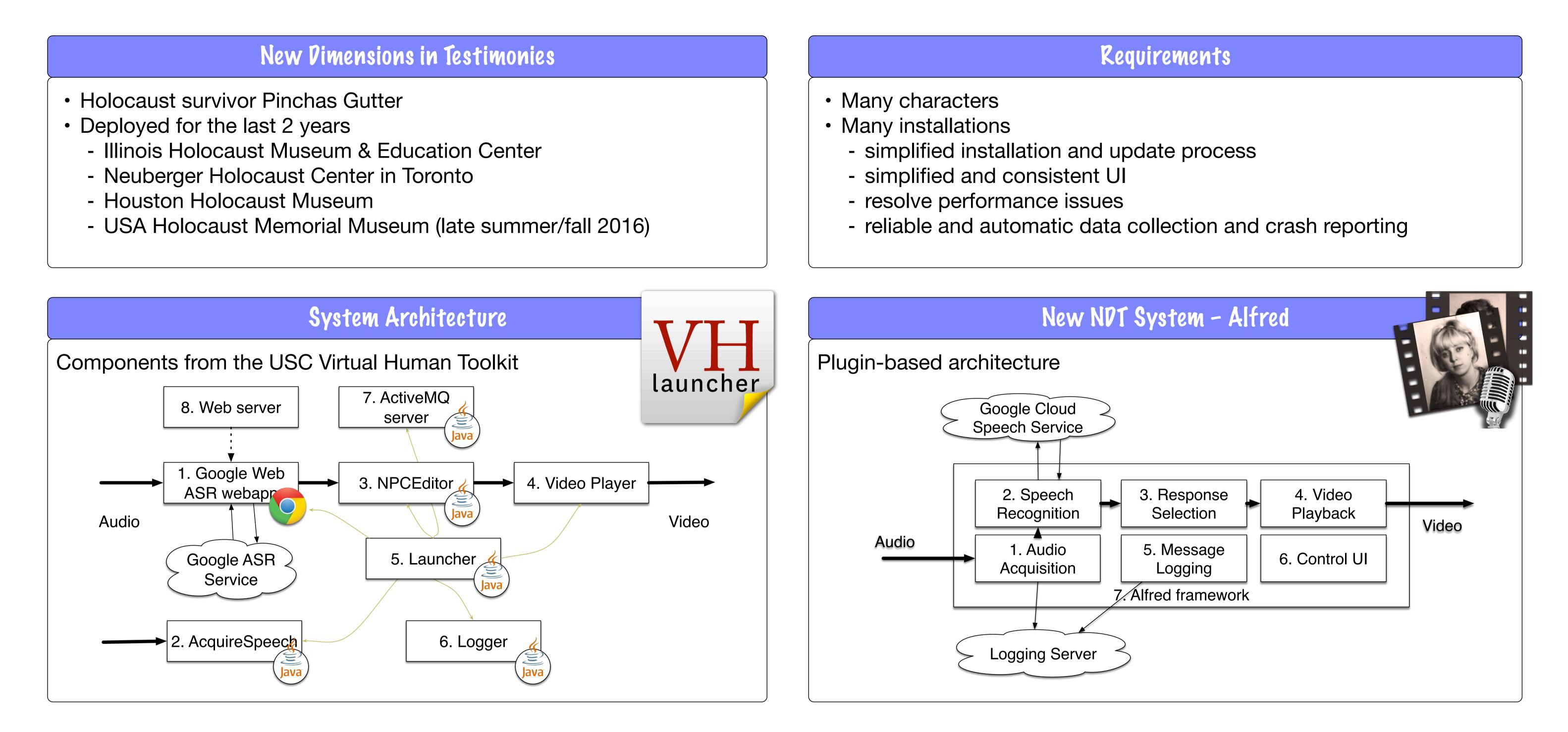
Lessons in Dialogue System Deployment Anton Leuskí and Ron Artstein



Deployed System Issues

Installation & Maintenance

- Need 3rd party components Java & Google
- Installer modifies OS-level settings
- 3rd party components have their own update mechanism. Unexpected changes in the system

• Performance

- Freezes due to Java garbage collection
- Video playback hiccups due to inefficient video decoding library
- ASR outputs different English dialects depending on the computer location

New Design Features

Installation & Maintenance

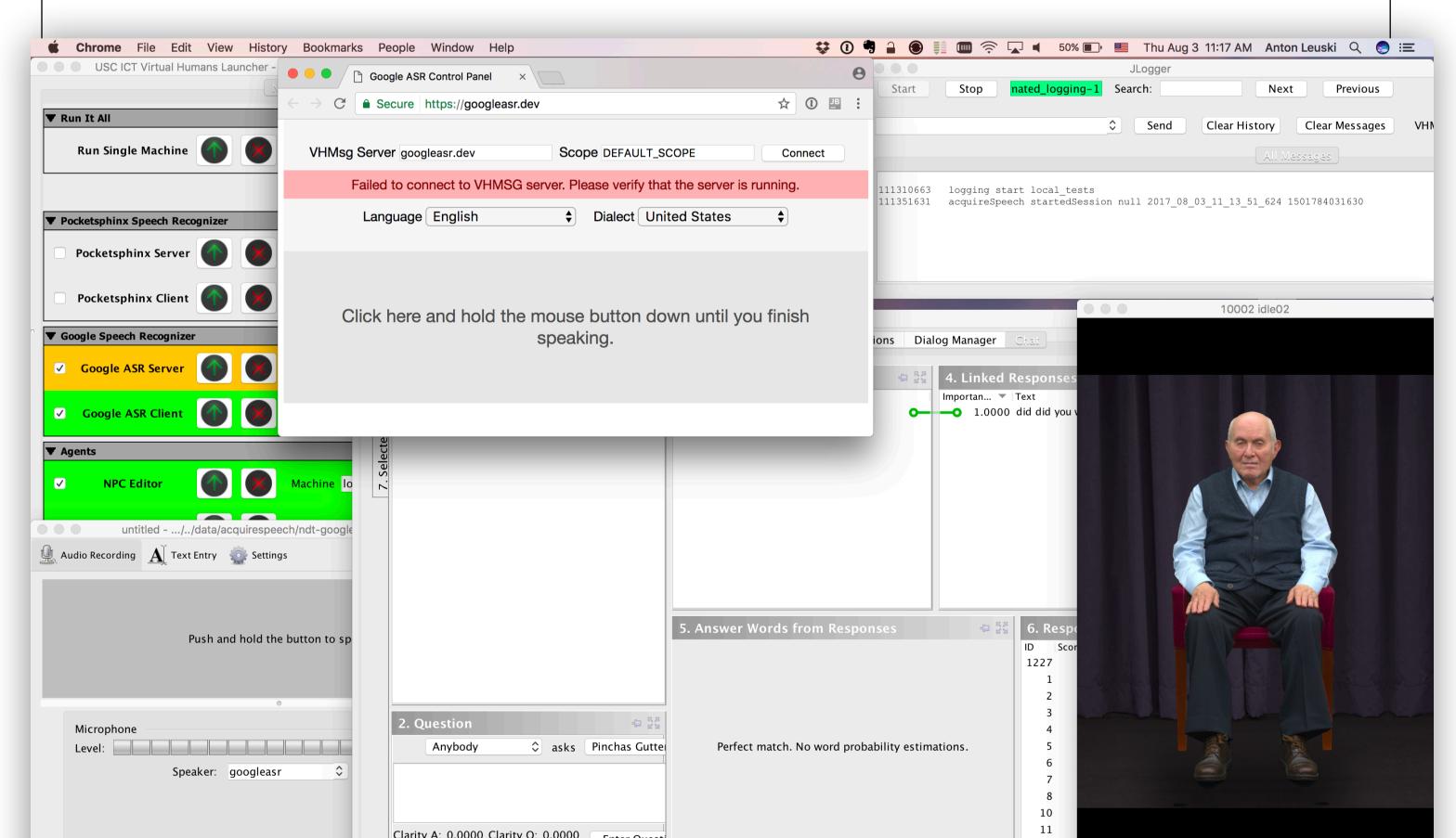
- Installation via traditional drag & drop
- No 3rd party components to maintain and support
- Integrated auto-update mechanism

• Performance

- Native code efficient
 - video decoding, hardware acceleration
 - text classification & response selection
- Google cloud API robust, reliable & native

• User Interface

- Too many windows
- Too much information
- Too disorganized



• User Interface

- Video playback window only
- Expert UI window available on request only
 - UI Plugins for code plugins
 - Summary/detail presentation
 - Organized and compact
- Remotely observable over http



	Alfred			
Jdio	Clips		Window 0	
	Filter			
ast Recognition Result where are you from	00001_right			
	00002_hi_how_are_you			
	00003_not_too_bad			
ast Utterance 00020_born_in_wodz_poland.mp4 i was born in lodz in poland	00004_privelage_to_be_hologram			
	00005_holocaust_defined			
	00006_holocaust_defined_short			
Currently Playing Clip idle03	00007_to_be_jewish_is_to_be_different			
	00008_to_be_jewish_is_to_be_different_s	hort		
ast Message vhRendererDidStartPlaying [message-893] clipID idle03 title idle03	00009_ccamp_defined			
	00010_dcamp_defined			
	00011_ghetto_defined			
	00012_final_solution_defined			
zard of Oz	00013_location_of_h			
Missing	00014_location_of_h_2			
	00015_gas_chamber_defined			
	00016_gas_chamber_defined_2			
	00017_my_name_is_pinchas_gutner			
	00018_hello			

Clarity A: 0.0000 Clarity Q: 0.0000 Enter Quest

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Data Collection

- Data is difficult to access because of firewalls and computers being often off-line

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🏹 🔽 🛞 🎲 MARNALI

- Multiple Characters (New Requirement)
 - System was not designed to support multiple characters data and code was packaged together

Data Collection

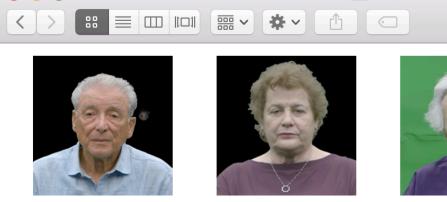
- Data uploaded to the central server automatically whenever the connection is available **\$**~

• Multiple Characters

- Separation of code and data
- Each character is a "document"

• Future Work

- More domains, more installations
- Mobile version





Q Search





Anita Wallfisch

Izzy Starck

Renee Firestone



Fritzie Fritzshall

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