

VTechWorks Video Accessibility

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Description

- VTechWorks Video Repository
 - Event Capture Group
- Video Indexing
 - Speech-to-Text
 - Manual Transcription
- Captions
- Automation

Speech-to-Text

- Automated
- Few options
 - CMU Sphinx, Adobe Speech
- Low accuracy
 - Text must be reviewed
 - No punctuation/capitalization

Dictation Software

- More options
 - Dragon, Google Voice, etc.
- Needs to be trained to a voice
- No easy way of getting a direct feed to audio

Manual Transcription

- More useful options
 - INQScribe, Transana, Express Scribe, HyperTRANSCRIBE
- Accuracy higher
- Time consuming
- High resource need

Potential Problems

- Captions are hard
- No apparent way to accurately automate
- Computers cannot properly transcribe
 - Punctuation – ambiguity
 - *he went to the store to get broccoli soup and french bread*
 - Capitalization – proper nouns vs. verbs
 - *pat and sue drove the car until it got dark*
- Need humans to fix what automation can't
 - Costs money to hire workers

The Plan

- Project clarification - DONE!
- Research - DONE!
- Analysis - March
- Testing - March/April
- Implementation - March/April

Deliverables

- Analysis of effectiveness of captioning, using Express Scribe
- Adobe Premiere transcription for metadata
- Workflow
- Front-end system for processing