4 IN THE TITLE--

BUT....
Brian is our leader
Goal of AphasiaBank

To create a shared database of multi-media interactions for the study of communication in aphasia
Many Aims.....
• To Standardize a protocol
  ➢ Guarantee maximal comparability across data sets

• To Develop a Database
  ➢ Compile Accurately transcribed data from a large number of participants
  ➢ Convert transcripts to CHAT *format
  ➢ Link transcripts to digitized audio/video

• To customize analysis
  • use CLAN* programs to construct a full set of tools for the analysis of multimedia transcripts on the levels of phonology, lexicon, morphology, syntax, discourse, and pragmatics
• Compute existing measures that are of interest to aphasia researchers
• Develop new measures based on automatically-constructed annotations
• Work with consortium members to develop new approaches to classification based on co-occurrence of language behaviors
Some qualitative aims...

- **CLAN** editor can support Conversational Analysis (CA) transcription, making it possible to:
  - Formalize a coding system (or a set of them) specifically for aphasia
  - Promote a system of web-based collaborative commentary*
There’s still more.....

- We hope to develop profiles of recovery
  - Use methods such as time sequencing analysis and growth curves to trace changes over time in individuals & groups

- Evaluate treatment effects
  - for specific treatments at the impairment level, if not at the more psychosocial level.
FINALLY, THERE’S
JOHNNY
APPLESEED....

DISSEMINATE THESE NEW
TOOLS THROUGH
PERSONAL CONTACT,
WORKSHOPS, JOURNAL
PUBLICATIONS, AND
DOWNLOADS OVER THE
INTERNET
A BIT OF HISTORY...

AphasiaBank the (legitimate) offspring of CHILDES

acronym for Child Language Data Exchange System

analogous database for child language

Brian MacWhinney and Catherine Snow initiated it in 1984, and it is still growing

used worldwide in many languages

more than 3100 publications
What are Chat and Clan?

**Chat is:**
- The transcription system that includes options for coding multiple aspects of language

**CLAN is:**
- An acronym for Computerized Language ANalysis
- Leonid Spektor at CMU wrote CLAN and continues to develop it.
- Runs on both Macintosh and Windows
- CLAN has large number of automatic analyses for CHAT transcripts, including frequency counts, word searches, co-occurrence analyses, MLU counts, interactional analyses, text changes, and morphosyntactic analysis.
First there was talkbank---
Established in May 2007
Now there’s AphasiaBank
NIDCD Funding---5 years

Consortium currently has 50 member/researchers
Uses CHAT and CLAN

Website access:
talkbank.org--click on aphasiabank
AphasiaBank

- Links high quality digital recordings to systematically coded transcripts
- Accessed directly via the Internet
- Clicking on transcript line results in replay of corresponding video or audio interaction *
AphasiaBank...

The entire interaction can be replayed. Each new videotaped utterance is synched with its corresponding, highlighted, transcribed, text. Analyses can be done on the internet or downloaded to the desktop.
To Participate

1. Start the IRB Approval Process!!!
(There’s help on the website, there’s help from us)
To Participate:

2. Come to an AphasiaBank workshop!
(They are not ALL WORK!!)
To participate

3. Administer and videotape core protocol
OH YES!! THE PROTOCOL......

The protocol was designed by consensus...
Protocol

• Demographic Data

• Free Speech Samples
  • Stroke Story and Coping,
  • an important personal life event

• Picture Descriptions
  • Broken Window
  • Refused Umbrella
  • Cat Rescue
  • Flood

• Story Narrative
  • Cinderella

Procedural Discourse

Peanut Butter and Jelly Sandwich or other simple sandwich
Test data...

- AphasiaBank Repetition Test (2007)
- BNT, 2ND ED. SHORT FORM (2001)
- Verb Naming Test (NAVS, REVISED FIELD TEST)
- WAB (2007) AQ only
Broken window
Forgotten umbrella
Flood
How to participate

4. Submit the data--videos, transcripts, demographic information, test scores (we take quicktime or translate videos into it)
OUR WEBSITE IS YOUR FRIEND--

Most of the protocol is there

Guidelines for videotaping is there

Instructions for transcription are there

Complete chat manual is there
COMPASSIONATE HUMAN HELP AVAILABLE

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BRIAN@CMU.EDU

AHOLLAND@U.ARIZONA.EDU
STANDARD CLAN ANALYSES AVAILABLE (E.G., MOR, KWAL, FREQ, ETC)

ANTICIPATE DEVELOPING SOME UNIQUE TO APHASIA (E.G., PHONPARAPH, SEMPARAPH, CIRC, NEOL, ETC)

PHONETIC ANALYSIS ALSO POSSIBLE
On to a demo........