Support for Networking in US < Europe
- NetDC, Digging into Data experiences
- FlareNet
- CLARIN

COCOSDA
- Early: LTTS Server
- Current: biennial with regional, topical reports
- OCOCOSDA: annual, contribution on languages of Asia
- Shortcomings: speech only, isolates data creators from users

Opportunities
- Increasing participation from ‘the Americas’
- Penn Global Initiatives
  - China, Latin America, most recently India

Can we organize to better collaborate
Why Are You Here

- Some participants commented that you were:
  - not a data center
  - not working specifically on languages of the Americas

- But You Represent
  - Data creators
  - Institutional Archives
  - ‘Regional’ Data centers
  - Search Providers
  - Networking Services

- Working either on
  - Languages of the Americas
  - Language in the Americas

- Effect of that context is unique (or at least different from Europe) in terms
  - linguistic, demographic, economic, legal/regulatory, cultural

- Frankly most of you represent multiples of these
Workshop Goals

- Meet to sketch functions/approaches
- Identify Major Challenges
  - Can the challenges faced by any one group be met by any other?
- Identify challenges in common
- Evaluate according to importance, urgency
- Do we have enough in common to justify greater networking, collaboration?
- If so, what would that look like?
LDC Functions/Issues

◆ Publications
  - first function
  - generally successful
  - QC all publications upon deposit, work with contributor to fix, rarely reject
  - required normalizing processes so that regardless of delays in submission, publish >= 30 data sets per year
  - create queue
  - plan publications annually
    - vary topics to match member interests
  - respond to well formed requests to vary schedule
LDC Functions/Issues

- **Archiving/Curation**
  - required modernizing storage
    - Service Center
    - regular replacement
    - review of all data by type for static/dynamic storage, implementing IRODS
    - data integrity
    - disaster recovery
  - issue with benchmark corpora
  - QC upon receipt
  - mechanism for patches
  - re-issues to match modern uses
Membership

- developing an approach to marketing & communications
- revised our distribution to have an e-commerce feel
- moved from CD -> DVD -> BD to HD + USB + cloud based distribution
  - local and via cloud providers
- biennial surveys
  - members nearly always satisfied to very happy
  - complaints generally reflect communications breakdowns
    - misunderstanding of LDC model
    - cost
- data cost
  - generally well understood
  - free/low cost corpora
  - data scholarships
LDC Functions/Issues

- Collect & Annotate
  - already on a large scale and good diversity
  - however major challenges remain
    - diversity (Zulu)
    - scale
    - skills/training
Some LDC data sources including subcontractors and vendors (red squares), corpora (green circles), media providers (purple diamonds), LDC staff collections (gold people), research collaborators (blue stars). Many markers represent multiple collaborators; some markers partially obscured by others.
Features of NIEUW Approach

- always available to anybody, on any device
- though some activities require additional skills, data
- connection social networking sites for recruitment, data
- incentives: information, entertainment, self-expression, socializing, developing skills, demonstrating competence, competition, status, prestige, recognition, access to (HLT) services, contributing to a greater cause or good
- data prioritization replaces data selection
- X-sourcing: tasks selected, engineered to match workforce, incentives
  - crowd, gamers, citizen scientists, language professionals
- automated worker training and assessment
- algorithms for task assignment, finding experts, modeling variation
- integration with current LDC operations, including crowd-sourcing
LibriVox

- January 1, 2017
  - 53,430 hours of readings in English
  - 8,689 hours in 36 other languages
  - 1 recorded hour requires 2 hours of reading time + 2-4 hours editing > 248,476

- At industry standard rates, $500 per finished hour of audio, cost to fund LibriVox would exceed $31,000,000.

- Incentives
  - belief in LibriVox mission
  - interest in content
  - promoting specific work, author, genre
  - challenge of acting without visuals
  - opportunity to develop and apply skills; spin-offs to Iambik and Audible
  - work with like-minded collaborators in multiple sub-communities
  - enlightened self-interest

LibriVox
- "free public domain audiobooks"
- recruit, train, organize volunteers who
- record readings of literary works out of copyright in US
Great Language Game

- **History**
  - 2013 appeared
  - 2014 public data release, < 1 year later
  - >16,000,000 judgments
  - > all NIST LRE judgments ever
  - now >38,000,000
  - stats disappeared

- **Players include:** Central & South America, Sub-Saharan Africa, Central Asia, Oceania.

- **Incentives**
  - information
  - entertainment
  - competition
  - status

- **Judgments suboptimal for LRE**
  - too few clips
  - too many judgements/clip
  - all answers known

- **Great Language Game**
  - players hear brief audio clips in ~80 languages
  - select correct language from multiple choice
  - 3 lives
    - correct = 50 points
    - incorrect = lost life
  - # choices increases during game
  - Ethnologue entries for languages missed
Citizen Science: Zooniverse

Active

Paused

Finished

All Disciplines

Arts

Biology

Climate

History

Language

Literature

Medicine

Most Recently Launched

Showing 1-10 of 10 projects found.

Name:

1. ASTRONOMY REWIND
2. DECODING THE CIVIL WAR
3. NOTES FROM NATURE
4. SHAKESPEARE’S WORLD
5. MEASURING THE ANZACS
6. ANNOTATE
7. ORCHID OBSERVERS
8. SCIENCE GOSSIP
9. OPERATION WAR DIARY
10. OLD WEATHER
Components of NIEUW

- Data, Existing Annotations
  - existing at LDC currently being reindexed, ongoing collection
  - new contributions, collection from social network, smart devices
  - NIEUW collection activities

- Annotation Tools
  - WebAnn adjusted for: less expert task creators, citizen scientists, portability, mobile users, ‘reporting’ to contributors
  - language game building toolkit from Essex

- Portals
  - language professionals
  - citizen scientists
  - language game players

- Activities
  - subset created as proof-of-concept in infrastructure project
  - others added to respond to or anticipate demand

- Partners
  - contribute activities
  - host their own instances
Games: Great Language Game

LINGO BOINGO
World Language Games

Jeux de mots
French
Lexical and semantic games with a purpose in French.

Phrase Detectives
English
Compete against other detectives by identifying the relationships between words and phrases in a variety of texts including literature, history, travel, entertainment and science. Earn top scores!

Tile Attack
English
Go head-to-head against another player competing to identify the noun phrases of a text.

Zombilingo
French
Identify syntactical dependencies, collect brains and eat them! This language game is fun for both fans of grammar and zombies.

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Relevant Activities

- **Basic Collection/Annotation Tasks**
  - oral history, my best X ever
  - web video accessibility via transcription, translation
  - massively parallel multilingual dictionary, multimedia language atlas
  - transcription, LID, HASR, ERE, NP chunking, head hunting

- **Annotating Situation Frames**
  - as Zooniverse already does in ANZACS date, nationality, height, weight, for a kind of SF

- **Emergency Social Media**
  - collect multilingual social media posts from previous natural disasters
  - create new posts via scenarios
  - translate posts into and from English

- **Opinion Spectrum**
  - for ‘news topic’ find stories, segments representing range of opinions: pro -> con

- **Call BS or The Smell Test**
  - for given statement, express confidence, provide independent evidence

- **Also any stable annotation task, divided into atomic tasks.**
NSF CRI planning grant, NSF CRI NEW proposal awarded

- presentations, discussions
  - NSF, DARPA, IARPA, DOD, CASL, AFRL
  - MIT-LL, CLARIN, SADiLaR
  - LREC, NSF workshops on Novel Incentives and Workflows
  - program committee, etc. for LREC, Games4NLP, HCOMP

Development Partners
- Uni Essex, Sorbonne, enetCollect

New Data Contributors
- Labov, Drager, D’Arcy, Feigin, Yaeger-Dror

WebAnn ported

First game nearly finished