







University of Washington site update

DELPH-IN Summit
July 16, 2019
Cambridge

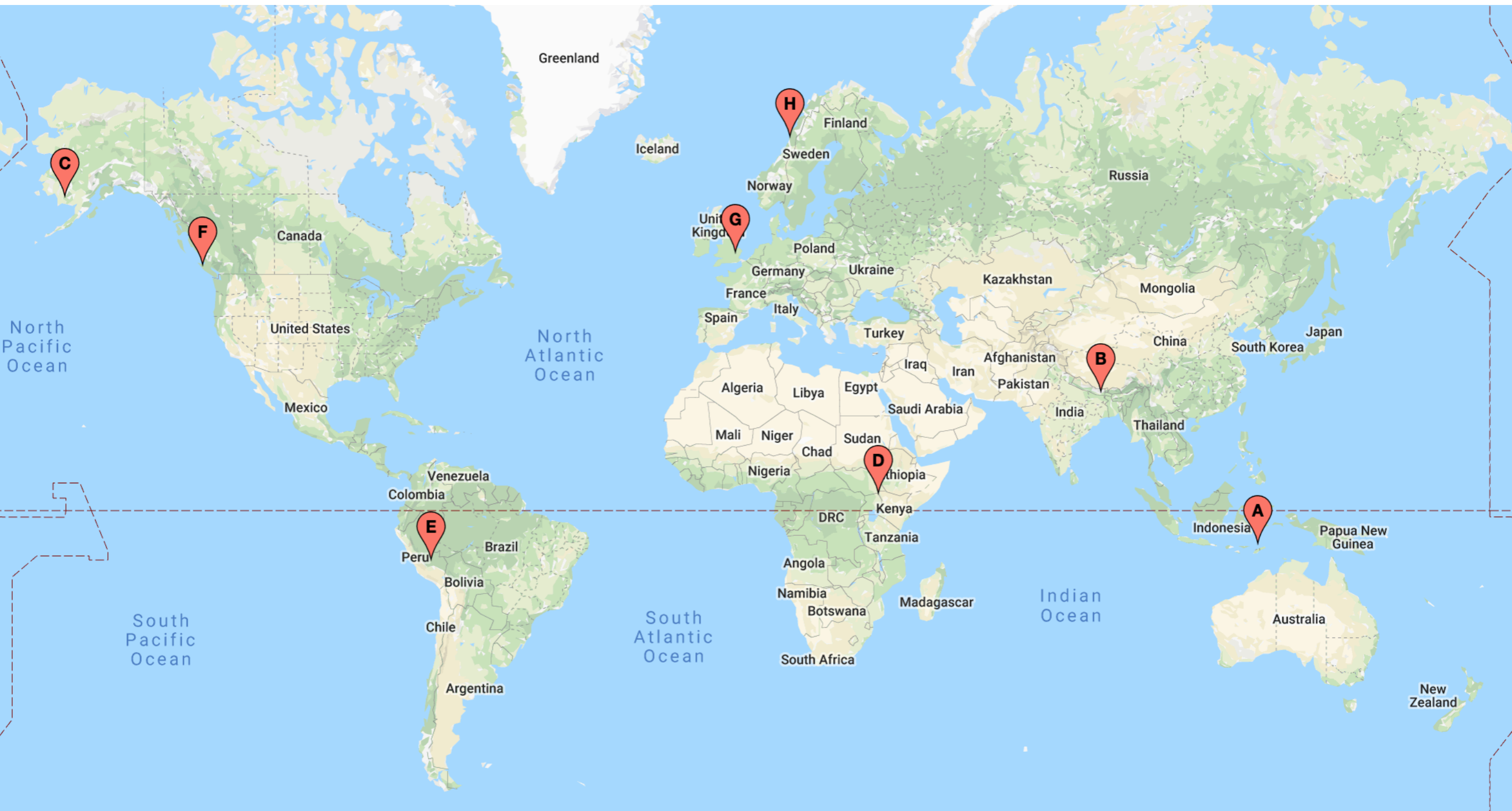
 Emily M. Bender, Jan Buys, Joshua Crowgey,
 Chris Curtis,  Kristen Howell,  David Inman,
Haley Lepp, Angie McMillan-Major,  Woodley
Packard, Glenn Slayden,  Olga Zamaraeva



567 Languages (SP 2019)

abz	Abui	Alor-Pantar	Dods, Pompeo
ctn	Chintang	Kiranti	Vogel, Zhang
esu	Central Alaskan Yup'ik	Eskimo-Aleut	Martinez, Strunk
eng	English	Indo-European	
ikx	Ik	Kuliak	Sampath, Tien
mcb	Matsigenka	Arawakan	Gioannini, Mena
nuk	Nuuchahnulth	Wakashan	Downey, Nielsen
sje	Pite Saami	Uralic	Nielsen, Spivey

Languages - mapped



lat/long data mostly from wals.info; map by batchgeo.com

Items with end-to-end output: Final (transfer rule propagation)

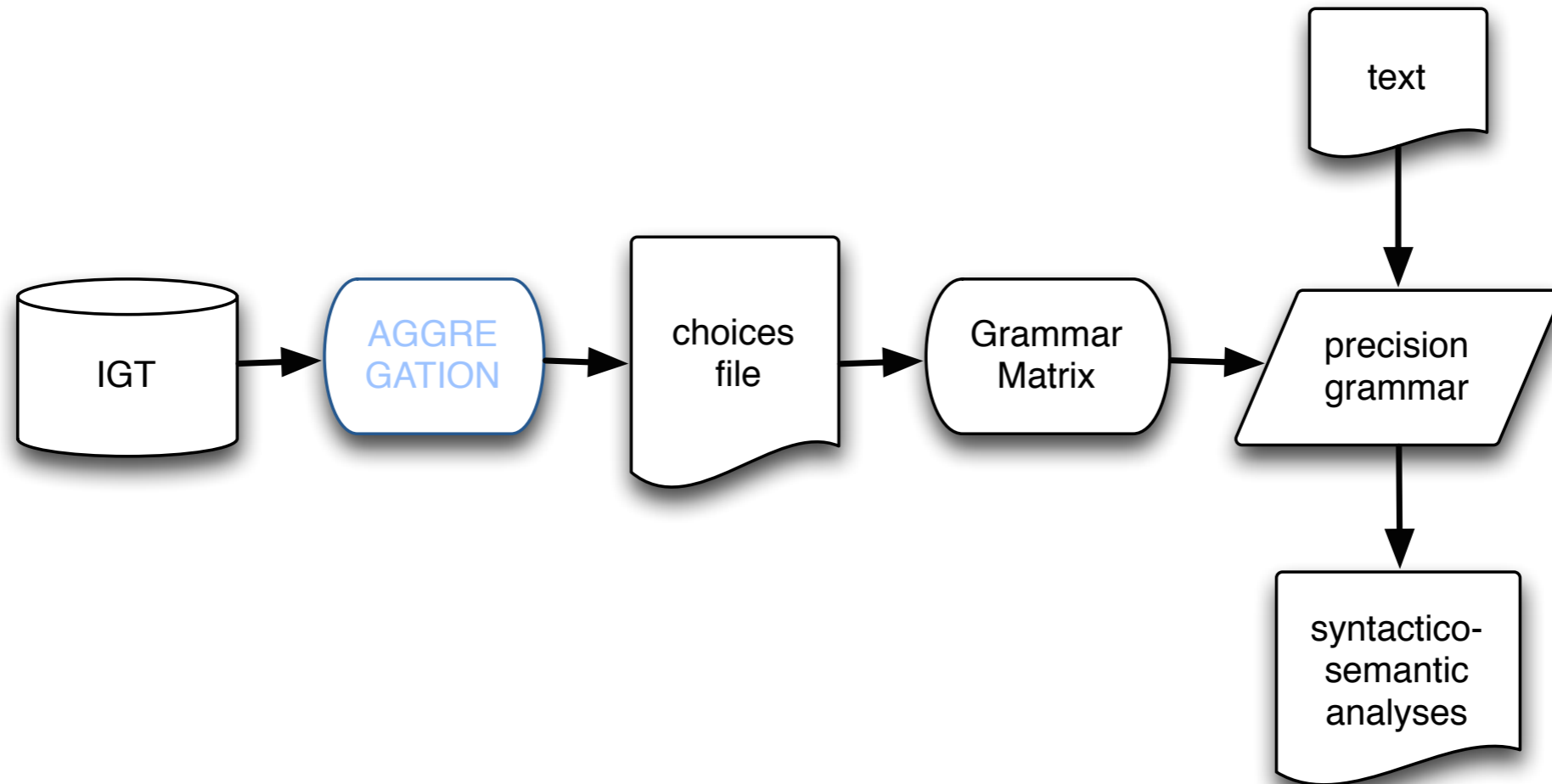
	abz	ctn	eng	esu	ikx	mcb	nuk	sje
abz	17	9	16	10	13	12	10	17
ctn	9	12	12	6	9	6	8	9
eng	22	12	28	14	17	14	15	21
esu	14	10	16	17	13	9	12	13
ikx	12	10	13	11	13	8	9	11
mcb	8	5	7	7	7	8	6	7
nuk	12	9	10	8	11	8	12	11
sje	16	7	15	9	13	10	9	17

Big changes for 567 2019: AGGREGATION-based

- Field languages only
- Start with inference-created choices files
- Lots of useful feedback to Kristen
- BIG choices files hard to work with
- Maybe worth it, especially for leg up in morphology
- Excited to try again next year!

AGGREGATION project

(Bender, Zamaraeva, Howell, Lepp + others)



AGGREGATION - Phase II & related

- Integrating and extending the inference code
- Making our intermediate outputs useful for field linguists
 - MOM + MOM GUI (Zamaraeva, Lepp)
 - Demos at ICLDC and NAACL
- Large-scale evaluation on 15 languages (Howell)

Grammar Engineering

- Lushootseed (Crowgey)
- Nuuchahnulth (Inman)
- Thai (Slayden)
- Ancient Greek (Packard)
- *wh* questions library for Grammar Matrix (Zamaraeva)

DELPH-IN QA discourse site

- <https://delphinqa.ling.washington.edu/>
 - ~1.1k posts total to date, across 190 topics by 31 users
- Goals:
 - Make existing solutions to common problems easier to find
 - Overall readability of answers
- (Still) Todo: Merge in existing email list
- Todo: Recruit more users!

Dr. David Inman

- PhD complete :)
- Title: *Multi-predicate Constructions in Nuuchahnulth*
- Original fieldwork on and implemented grammar for Nuuchahnulth constructions including serial verbs and “linker” marked coordination
- Remaining challenges: tricky null stem, extending incorporation analysis to more phenomena, scopal properties of different second position elements

Deep Learning + Deep Processing

- Neural generation from MRS (Hajdik, Buys, Goodman & Bender @ NAACL 2019)

Linguistic Fundamentals for NLP II: 100 Essentials from Semantics and Pragmatics

- by Emily M. Bender and Alex Lascarides
- Revised version submitted to Morgan & Claypool in June 2019
- Expected publication by Autumn 2019