



UniDive WG3

Subgroup - Multilingual Tool and Resource Documentation

Co-leaders:

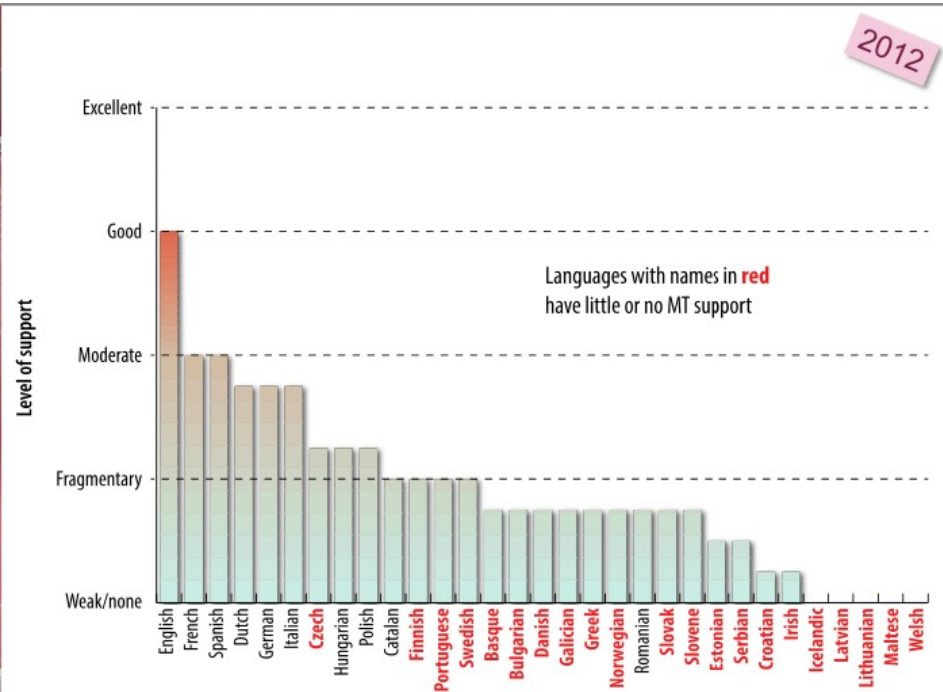
A. Seza Dođruöz (Ghent University)

Maria Giagkou (Athena RC)

Teresa Lynn (Mohamed bin Zayed University of Artificial Intelligence)



2012 META-NET White Paper Series: LT Support Levels



“Language Equality” EP Resolution (2018)

EP Resolution “Language equality in the digital age”
P8_TA(2018)0332 – partially based on the STOA study

Voting (11 Sept. 2018): **592 yes** – 45 no

Selected Recommendations addressed by ELE:

25. Establish a large-scale, long-term coordinated funding programme for research, development and innovation in the field of language technologies, at European, national and regional levels, tailored specifically to Europe’s needs and demands

29. Create a European LT platform for sharing of services

27. Europe has to secure its leadership in language-centric AI

European Parliament
2014-2019



TEXTS ADOPTED
Provisional edition

P8_TA-PROV(2018)0332

Language equality in the digital age

European Parliament resolution of 11 September 2018 on language equality in the digital age (2018/2028(INI))

The European Parliament,

- having regard to Articles 2 and 3(3) of the Treaty on the Functioning of the European Union (TFEU),
- having regard to Articles 21(1) and 22 of the Charter of Fundamental Rights of the European Union,
- having regard to the 2003 UNESCO Convention for the Safeguarding of the Intangible Cultural Heritage,
- having regard to Directive 2003/98/EC of the European Parliament and of the Council of 17 November 2003 on the re-use of public sector information¹,
- having regard to Directive 2013/37/EU of the European Parliament and of the Council of 26 June 2013 amending Directive 2003/98/EC on the re-use of public sector information²,
- having regard to Decision (EU) 2015/2240 of the European Parliament and of the Council of 25 November 2015 establishing a programme on interoperability solutions and common frameworks for European public administrations, businesses and citizens (ISA2 programme) as a means for modernising the public sector³,
- having regard to the Council resolution of 21 November 2008 on a European strategy for multilingualism (2008/C 320/01)⁴,
- having regard to the Council decision of 3 December 2013 establishing the specific programme implementing Horizon 2020 – the Framework Programme for Research and

¹ OJ L 345, 31.12.2003, p. 90.

² OJ L 175, 27.6.2013, p. 1.

³ OJ L 318, 4.12.2015, p. 1.

⁴ OJ C 320, 16.12.2008, p. 1.

European Language Equality Project. (2021-2022)



Consortium: 52 partners from all over Europe

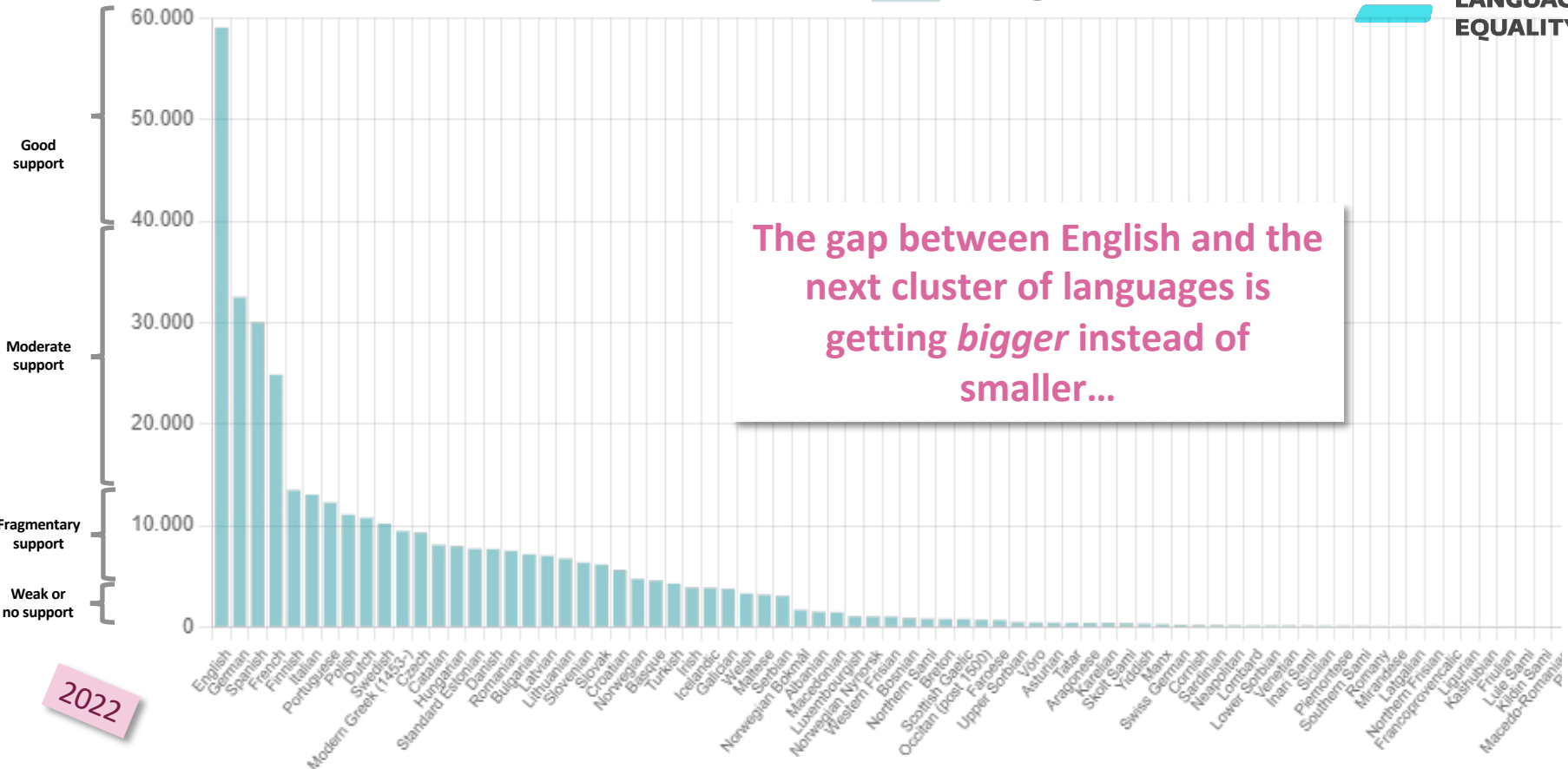
Coordinator: Dublin City University

Co-coordinator: DFKI

Objective: development of a strategic research, innovation and implementation agenda to achieve digital language equality in Europe by 2030

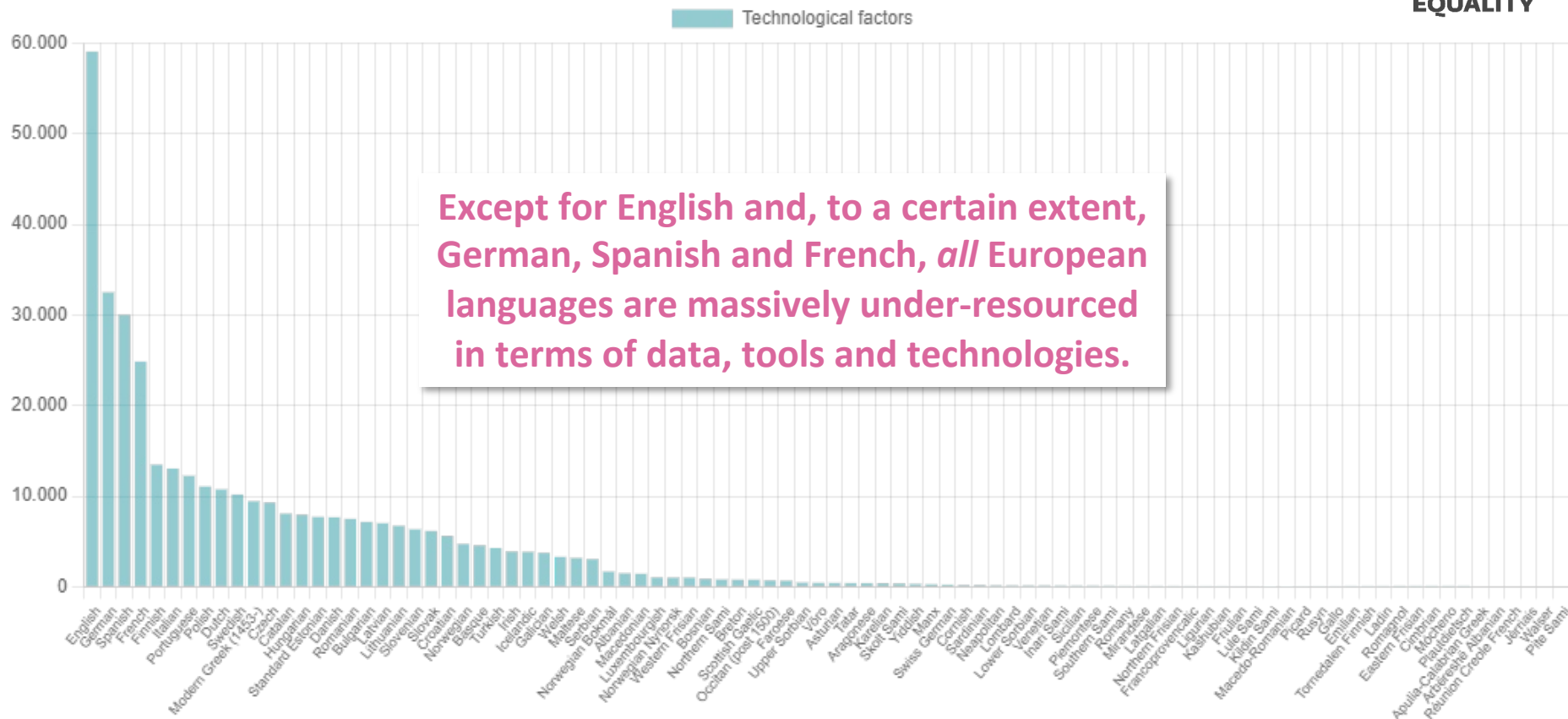
2022 LT Support Levels

Technological factors



The gap between English and the next cluster of languages is getting *bigger* instead of smaller...

2022



European Language Grid – “the yellow pages” of LT



Discover, try out, use and download LT services and resources for all European languages.

Browse ELG and find the LT services, resources, developers and providers you are looking for.

Search

ELG RELEASE 3.0 (FEBRUARY 2024) — GRID WORKING — NO MAINTENANCE SCHEDULED

8026
Corpora

3837
Tools & Services

2822
Conceptual Resources

512
Models & Grammars

1779
Organizations

514
Projects

<https://live.european-language-grid.eu/>

STOA Workshop 2022

European Language Grid – harvests other platforms



European Language Grid – catalogue search



Catalogue ▾ Documentation & Media

Search for services, tools, datasets, organizations...

Search

Clear all filters ✕

Language resources & technologies ▾

Service functions ▾

Languages ▲

Official EU languages 🔍

Type to narrow down Official EU languages

- + Bulgarian (94)
- + Croatian (80)
- + Czech (88)
- + Danish (87)
- + Dutch (88)

122 search results

Albanian ✕



Albanian POS

version: 1.0.0 (automatically assigned)

for in

This is a treebank for Standard Albanian annotated with POS tags and morphological feature tag and lemma. For more information: Morphological Tagging and Lemmatization of Albanian: A Manually Annotated Corpus and Neural ▾

Keywords: Albanian treebank · Albanian POS · Albanian language

Language: Albanian

Licence: Creative Commons Attribution 4.0 International



Albanian web corpus MaCoCu-sq 1.0

version: unspecified

The Albanian web corpus MaCoCu-sq 1.0 was built by crawling the ".al" internet top-level domain in 2022, extending the crawl dynamically to other domains as

Screenshot

the crawler is available at <https://github.com/macocu/MaC> ▾

<https://live.european-language-grid.eu/>



Task Overview

Task 3.1.1

- Assess the “discoverability” of NLP tools and resources
- Who can participate?
 - Everyone 😊

Task 3.1.2

- Analyse the NLP tool availability in the ELG catalogue
- Who can participate?
 - Excel or Tableau enthusiasts
 - Those with skills in data visualisation



Task 3.1.1: Assessing the “discoverability” of NLP tools

- Choose your language(s) and NLP task(s) of interest
- Search for the relevant tools across a number of platforms
- Report on the discoverability of desired tool/resource
(Could you find easily it or not? What challenges?)
- Report on the metadata information available (was it sufficient and accurate?)
- What metadata do you recommend should be provided for a similar search?
- Is there a tool/ resource you are aware of that you can't find on these platforms?


	A	B	C	D	E	F	G	H	I
1		Which platform did you consult?	Which language(s) did your investigation focus on?	Which where you looking for? (specify the type of NLP tool, corpus or other language technology resource)	How did you perform the search?	Please briefly describe your search terms and/or criteria applied.	Did your search return any results?	Are you aware of existing LT tools/systems for the language in question that have not been retrieved?	If yes, briefly describe what of existing resources are missing from the retrieved list
2	example My search #1	ELG	Aromanian	Speech corpus	combination of the above	I searched for "Aromanian" in the search field and then applied the filter "corpus" in the "resource type" category	No, none at all	Yes	Several speech corpora and text corpus
3	example My search #2	ELRA Catalogue	Aromanian	Speech corpus	combination of the above	I searched for "Aromanian" in the search field and then applied the filter "corpus" in the "resource type" category	Yes, but fewer than I expected	Yes	Three speech corpora developed by X, Y, Z
4	example My search #3	ELG	Danish, Finnish	Spell checker	free text search	I searched for "spell checker for Danish and Finnish"	Yes, many	No	
5	example My search #4	CLARIN.EL	Greek	Greek-English machine translation system	filters applied	Applied language filter	Yes, many	Yes	international commercial services (e.g. from google) that support Greek are not included in this repository

E.g Search for Albanian Tools - ELRA Catalogue

Browse Resources Information

Cart total View cart Register





albanian Search



✖ Clear All Filters

- ▶ Language
- ▶ Resource Type
- ▶ Media Type
- ▶ Availability
- ▶ Licence
- ▶ Restrictions of Use
- ▶ Linguality Type
- ▶ Language Variety

Resource Type:

- Corpus: 
- Lexical/Conceptual: 
- Tool/Service: 
- Language Description: 

1 Language Resource



Order by: Resource Name A-



ECI/MCI (European Corpus Initiative/Multilingual Corpus I)

Albanian | Bulgarian | Chinese | Czech | Danish | Dutch; Flemish | English | Estonian | French | German | Italian | Japanese | Latin | Lithuanian | Malay (macrolanguage) | Modern Greek (1453-) | Norwegian | Portuguese | Russian | Scottish Gaelic; Gaelic | Serbian | Spanish; Castilian | Swedish | Turkish | Uzbek

ID: ELRA-W0004
ISLRN: 511-168-567-582-5

The European Corpus Initiative (ECI) was founded to oversee the acquisition and preparation of a large multilingual corpus, and supports existing and projected national and international efforts to carefully design, collect and publish large-scale multilingual written and spoken corpora. ECI has ...

MEMBER	academic	commercial
Licence: Non Commercial Use - ELRA END USER	50.00 € 	50.00 € 

NON MEMBER	academic	commercial
Licence: Non Commercial Use - ELRA END USER	50.00 € 	50.00 € 

Screenshot

E.g Search for Albanian Tools - CLARIN-SI Catalogue

CLARIN.SI repository / Search

Search

Selected Filters

Language : Albanian Clear All

[Advanced Search](#)

Limit your search

Author ▼

Subject ▼

Language (ISO) ▼

Type ▼

- corpus (3)
- lexicalConceptualResource (2)

Showing 1 through 5 out of 5 results

1 ⚙️

Corpus CLARIN.SI Data & Tools

Twitter sentiment for 15 European languages
(Jožef Stefan Institute / 2016-02-23)

Author(s):
Mozetič, Igor ; Grčar, Miha and Smailović, Jasmina

This item contains 16 files (49.38 MB).

Publicly Available

Browse

> All of the Repository ▼

My Account

Login

General Information

- Deposit
- Cite
- Submission Lifecycle
- FAQ
- About
- Help Desk

E.g Search for Albanian Tools - ELG Catalogue



Catalogue

Search for services, tools, datasets, organizations...

Clear all filters

Language resources & technologies

- Tool/Service (33)

Service functions

✓ Text Processing

- + Language identification (7)
- + Named Entity Recognition (5)
- + Lemmatization (4)

33 search results

Albanian Tool/Service



Albanian Tagger

version: 1.0.0 (automatically assigned)

A segmentation, morphological tagging and lemmatization models, using the Turku Neural Parser Pipeline. Form more information: Morphological Tagging and Lemmatization of Albanian: A Manually Annotated Corpus and Neural M

Keywords: Albanian · Tagger

Language: Albanian

Licence: Apache License 2.0



Amebis Presis

E.g Search for Albanian Tools - Hugging Face

← → ↻ huggingface.co/models?search=albanian Relaunch

Hugging Face [Models](#) [Datasets](#) [Spaces](#) [Docs](#) [Solutions](#) [Pricing](#) [Log In](#)

Tasks Libraries Datasets Languages Licenses Other

Multimodal

- Feature Extraction
- Text-to-Image
- Image-to-Text
- Image-to-Video
- Text-to-Video
- Visual Question Answering
- Document Question Answering
- Graph Machine Learning
- Text-to-3D
- Image-to-3D

Computer Vision

- Depth Estimation
- Image Classification
- Object Detection
- Image Segmentation
- Image-to-Image
- Unconditional Image Generation
- Video Classification
- Zero-Shot Image Classification
- Mask Generation
- Zero-Shot Object Detection

Models 9 new Full-text search Sort

- akdeniz27/mbert-base-albanian-cased-ner**
Token Classification • Updated Mar 22, 2023 • ↓ 17 • ♥ 1
- plattenschieber/albanian_gheg**
Updated Aug 10, 2021
- Kushtrim/bert-base-multilingual-cased-finetuned-albanian-ner**
Token Classification • Updated Nov 4, 2023 • ↓ 1
- Gerti/distilbert-base-multilingual-cased-finetuned-sentiment-albanian**
Text Classification • Updated Jul 29, 2023 • ↓ 4
- iamshnoo/alpaca-2-7b-albanian**
Updated Nov 11, 2023
- iamshnoo/alpaca-2-13b-albanian**
Updated Nov 11, 2023
- iamshnoo/alpaca-2-70b-albanian**
Updated Nov 10, 2023
- Alimzhan/wav2vec2-large-xls-r-300m-albanian-colab**



Task 3.1.1: Assessing the “discoverability” of NLP tools

Process

- A template will be provided with suggested queries
- Additional input also desired

Outcomes

- An increased awareness and understanding of language technology platforms
- Insight into limitations of current schemas
- Honed research skills in searching for NLP tools/ resources
- Recommendations for improving discoverability of tools/ resources



Task 3.1.2: Tool Availability Analysis

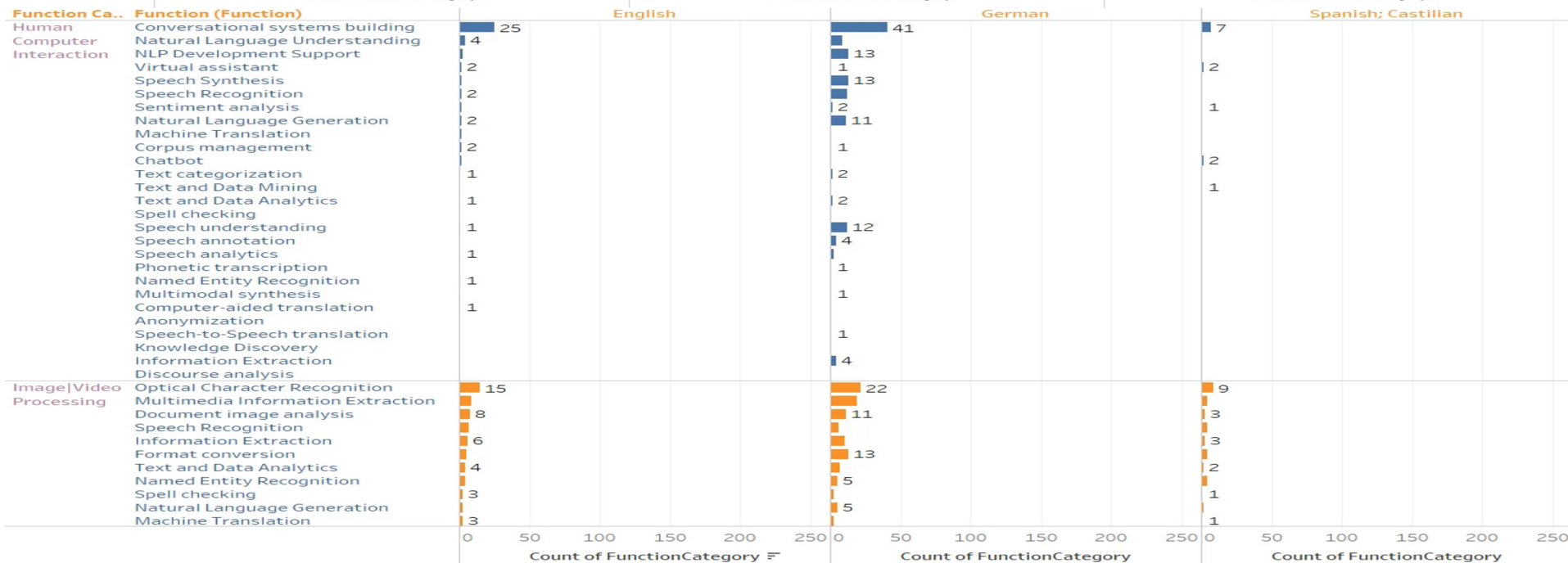
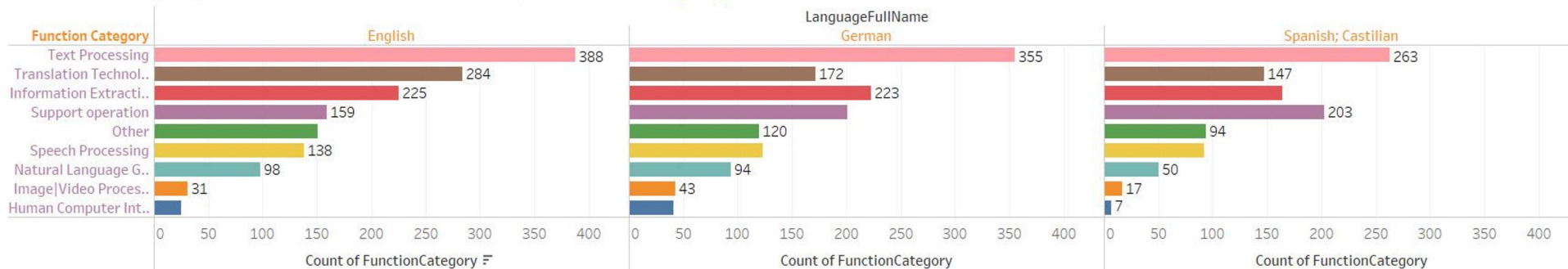
- Seeking volunteers with strong Excel/ Tableau skills
- Analysis required on ELG catalogue export – (large excel doc, ~3900 entries)
- Prompts below can be the start of investigation - let's see what else emerges:
 1. The tools for which certain languages are missing (e.g. Irish doesn't have NER, Sentiment Analyser, etc)
 2. The multilingual tool types that are lacking across languages (e.g. NER is only available for X, Y, Z languages)
 3. Which languages tend to be left out of “multilingual” tools?

ELG Catalogue Export

01 x ✓ fx Licences

	B	G	J	K	O	R
1	Resource Name	Function	Input Media	Input Languages	Licences	Landing Page
379	CORDEX inflectional lookup data 1.0	undefined		sl	Creative Commons Attribution Non	http://hdl.handle.net/113
380	ANMOP	Text categorization Text and Data	text	es		http://www.redilegra.com
381	Latvian grammar checker	Grammar checking	text	lv		https://www.tilde.lv/parei
382	COREA-coreferentieservice	Co-reference resolution		nl		http://hdl.handle.net/100
383	Collective Text to Speech	Text-to-Speech Synthesis Speech	text	es pt	GNU General Public License v2.0	https://pypi.org/project/c
384	Lengoo Termbase	Terminology	text	de		https://www.lengoo.com/
385	extraTerm	Term extraction	text	en de		https://www.iailc.de/en/s
386	Korp, Kielipankki version	Concordance search	text	ru es fr de en sv fi md myv s j sw h		https://korp.csc.fi
387	Raudikko Analysis for Elasticsearch	Text and Data	text	fi	GNU Lesser General Public License	https://github.com/Evider
388	MIOPIA	Annotation Sentiment analysis	text	es en		https://miopia.grupolys.or
389	Across Translator Edition	Terminology	text	de		https://www.across.net/en
390	Norma	Summarization NLP Development				http://simple4all.org/proc
391	StrokeAid	Speech Synthesis	text	hu		http://magyarbeszed.tmit
392	Recognizer	Speech understanding	audio	lt	Creative Commons Attribution 4.0	https://xn--ratija-
393	SpeCT - Speech Corpus Toolkit for Praat (v1.0.0)	Speech annotation Text and Data			GNU Lesser General Public License	https://zenodo.org/record
394	voiceovermaker.io	Speech Synthesis	text	no ko ja it id hu hi el de fr fi fil en		https://voiceovermaker.io
395	IRIS English-Irish Translation System	Machine Translation	text	ga en		http://server1.nlp.insight-
396	Г„Гӑni Company's Automatic Speech Recognition	Speech understanding Multimedia	audio t	fi en fi en		https://www.aanicompany
397	iTranslate Offline Translation	Machine Translation	text	vi tr th fa ru ko ja id he zh bs sq ar		https://itranslate.com/lan

Function Category COLLECTIONS broken down by Tools per Language








Task 3.1.2: Tool Availability Analysis

Expected Outcomes

- A better insight into current NLP tool availability
- A better insight into existing gaps and digital language inequality
- A basis for improved reporting on language support or tool availability status (visually/ written reports)

Task 3.1.2: Tool Availability Analysis – sign up!

Friday 9 February: WG sessions

- 9:00-10:15 (session 7) parallel working sessions
 - WG1+WG3 (room 1.1; on-site only; chairs: Bruno Guillaume, Kaja Dobrovoljc, Joakim Nivre, Gülşen Eryiğit)
 - 9:00-9:45 Presentation of new morphosyntactic representation for shared task (T3.2) followed by discussion (chair: Omer Goldman)
 - 9.45-10:15 Presentations from both WGs of current plans on surveying and documenting tools and resources (T1.4, T3.1) followed by discussion (chair: A. Seza Doğruöz)
 - WG2+WG4 (room 1.5; chairs: Verginica Mititelu, Voula Giouli, Marie-Catherine de Marneffe, Abigail Walsh)
 - 9:00-9:30 Promote diversity wrt. cross-language unification of lexical features (chairs: Kilian Evang and Dan Zeman)
 - 9:30-10:15 Development of MWE lexica: requirements and challenges (chairs: Stella Markantonatou and Ivelina Stoyanova)
- 10:15-10:45 *coffee break*
- 10:45-12:00 (session 8, on-site only) parallel working sessions
 - WG1+WG2 (room 1.1; chairs: Bruno Guillaume, Kaja Dobrovoljc, Verginica Mititelu, Voula Giouli)
 - 10:45-11:25 Harmonizing the definition of a “syntactic word” across languages (chairs: Kilian Evang and Dan Zeman)
 - 11:25-12:00 Shared treatment of MWEs of various parts of speech. Case study: nominal MWEs (chair Voula Giouli)
 - WG3+WG4 (room 1.5; chairs: Joakim Nivre, Gülşen Eryiğit, Marie-Catherine de Marneffe, Abigail Walsh)
 - 10:45-11:15 Presentations from both WGs on NLP resource documentation tasks undertaken in WG3 and WG4 (T3.1, T4.1) (chair: Lucia Arrabida)
 - 11:15-12:00 Short presentation of (a) shared task (T3.2) by WG3 and (b) metrics by WG4, followed by discussions (chair: Joakim Nivre)
- 12:00-12:15 *group photo*
- 12:15-13:30 *lunch*
- 13:30-14:45 (session 9) parallel working sessions
 - WG1 (room 1.1; chairs: Bruno Guillaume, Kaja Dobrovoljc)
 - Reporting the outcomes of February 7 sessions and discussing next steps
 - WG3 (room 1.4 and room 1.5;  [zoom link](#); chairs: Joakim Nivre, Gülşen Eryiğit)
 - Hands-on training for the multilingual tools documentation subtask (room 1.5, chair: Teresa Lynn)
 -  [Task 3.1.1 data collection form](#)
 -  [Task 3.1.2 volunteer form](#)
 - Final discussion of specifications for the shared task on morphosyntactic parsing (room 1.4, chair: Omer Goldman)



Thank you for your attention!
Go raibh maith agaibh!

Questions?
Ceisteanna?