

Dialect NLP

Thinking outside the box when processing
non-standard and low-resource languages

Verena Blaschke
MaiNLP lab, LMU Munich

Guest lecture at Sungkyunkwan University, *Introduction to AI / AI & Ethics*
26 November 2025



Natural Language Processing

... but *which* languages?

- Many speakers, abundant data, standardization

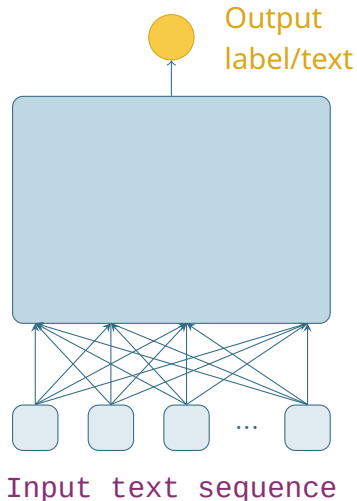
But does everyone use language this way?

- Also include minority languages, non-standard varieties
- Tricky for NLP! (sparse, heterogeneous data)

Today:

- Considerations and tips for processing data from dialects and other low-resource languages (LRLs)
- Specific examples (papers) + pointers to more literature

Overview – challenges & approaches



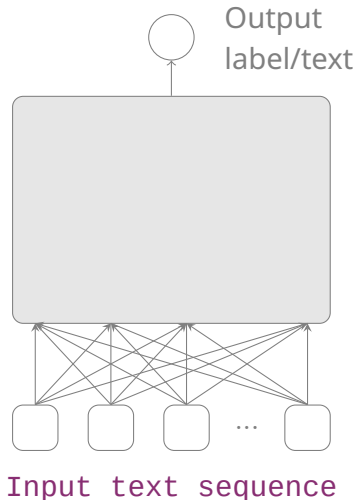
👤 What tools and why?

🤖 Modelling non-standard data

🧩 Dialect/LRL data

- Dialects & language variation
- Data challenges

Overview – challenges & approaches



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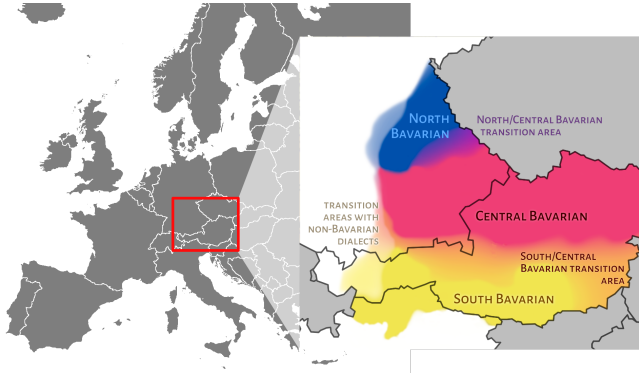
What do I mean with “dialects”?

Many definitions in linguistics, NLP & everyday language

- Any language variety spoken by a (geographically) distinct group of speakers
- National language varieties
- Accents
- ...

What do I mean with “dialects”?

- Non-standardized
- Closely related to a standard language
- Often: continuum standard – dialect
- Often: subdialects



Linguistic differences

Differences from the standard language

- Pronunciation (→ spelling)

[German]	Sie	haben	keine	Beine	
[Bavarian]	Se	hom	koane	Haxn	ned
	<i>They</i>	<i>have</i>	<i>no</i>	<i>legs</i>	<i>not</i>

“They [=fish] have no legs”

Linguistic differences

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Differences from the standard language

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- Grammar: morphology, syntax
- Usage context
 - Dialect speakers typically also write (+ speak?) the standard

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Linguistic differences

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[German] Sie haben keine Beine

[Bavarian] **Se hom** koane Haxn **ned**

They have no legs not

De ham koane Haxn _

Dei hobm koane Haxn _

“They [=fish] have no legs”

When do people use dialects?

- Spoken language
- Informal, written contexts (text messages, social media)
- Some literature, poetry, wikis

≡  **WIKIPEDIA**
Di frei Enzyklopedy

Suech

[Houptsyte](#) [Diskussion](#) [Läse](#) [Quelltext anzeig](#)

[Schwyzerdütsch](#) [Badisch](#) [Elsassisch](#) [Schwäbisch](#) [Vorarlbergisch](#)

Griab Godd älle midanand ond härzlich willkomma uf dr alemannische Wikipedia!
D freie Enzyklopedi, wo älle midmacha kenned.

Why dialect NLP?

- Annotate data for linguists, research variation
- Sparse & heterogeneous data for ML
- Downstream: systems for more robustly processing non-standard data
- (and more!)

Data

Challenges regarding dialect (& low-resource language) corpora

- Availability
- Quality
- Written representations

A Survey of Corpora for Germanic Low-Resource Languages and Dialects

Verena Blaschke

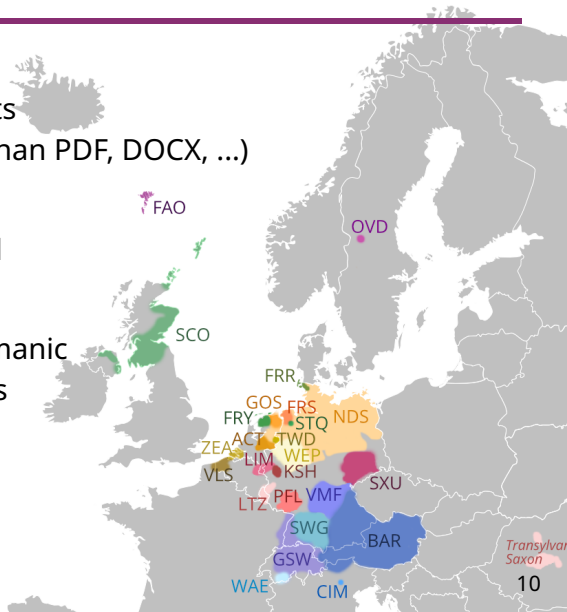
Hinrich Schütze

Barbara Plank

Datasets for Germanic low-resource varieties

- Accessible for research
- Computer-friendly formats (XML, TSV, TXT, ... rather than PDF, DOCX, ...)
- Full sentences/utterances
- Annotated + unannotated
- High-quality data
- ➔ 100+ datasets for 35 Germanic dialects + small languages

[github.com/mainlp/
germanic-lrl-corpora](https://github.com/mainlp/germanic-lrl-corpora)



How do you find corpora?

- Publications (ACL Anthology, arXiv, searching Google Scholar / Semantic Scholar) + a lot of manual digging...
- Google Dataset Search `datasetsearch.research.google.com`
- Data repositories
 - Zenodo `zenodo.org`
 - European Language Grid `live.european-language-grid.eu`
 - CLARIN Virtual Language Observatory `vlo.clarin.eu`
 - OpenSLR `openslr.org`
 - Text+ `text-plus.org`
 - OLAC `www.language-archives.org`
 - ORTOLANG `www.ortolang.fr/market/corpora`
 - Hamburg Centre for Language Corpora (HZSK)
 - OPUS `opus.nlpl.eu`

Annotations

What, if any, high-quality annotations do we find?

- Morphosyntax (POS tags, dependencies, phrase structure)
- Geolocation, dialect group
- Paraphrases, translations, sentiment, topics, slot and intent detection
 - Rare, but getting more popular
- Mostly: curated (elicited, transcribed, from books, manually checked web data, ...), but not annotated
 - ... and sometimes uncurated (e.g., webcrawls)

Data quality: Uncurated data

Uncurated LRL data tend to be of rather low quality

– wrong language, bad data cleaning

(Kreutzer+, TACL 2022; Abadji+, LREC 2022)

OSCAR corpus (fixed subsequently)

⊙ **Scots language corpus is non linguistic?** lang:sco quality ver:21.09

#14 · Uinelj opened on Nov 4, 2021

⊙ **Quality warning: Neapolitan** lang:nap quality ver:2019 ver:21.09

#13 · Uinelj opened on Nov 4, 2021

⊙ **Quality warning: Somali** lang:so quality ver:2019 ver:21.09

#12 · Uinelj opened on Nov 4, 2021

⊙ **Quality warning: Northern Frisian** lang:frr quality ver:2019 ver:21.09

#11 · Uinelj opened on Nov 4, 2021

Data quality: Uncurated data

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(Kreutzer+, TACL 2022; Abadji+, LREC 2022)

“West Flemish” QED OPUS corpus

```
<w id="33.28">07,</w>
<w id="33.29">624&amp;</w>
<w id="33.30">lt;</w>
<w id="33.31">br</w>
<w id="33.32">/</w>
<w id="33.33">&amp;</w>
<w id="33.34">gt;</w>
<w id="33.35">Καλά</w>
<w id="33.36">,</w>
```

Data quality: Low-status varieties prone to parodies?

Shock an aw: US teenager wrote huge slice of Scots Wikipedia

Nineteen-year-old says he is 'devastated' after being accused of cultural vandalism

Sprache [Am Gwëntext werkeln]

Das ist alles kein Bairisch, z. B. Da ehemalige General Gerhard Graf von Schwerin wurde am 24. Mai 1950 Konrad Adenauers

"Beroda in technischn Frong
drod de mid grousa Mehrheit
des Gsetz üba de Rechtsstän
(CET)

Das das alles kein Bairisch
ersetzen und das Präterit

"That's not Bavarian at all: [examples]"

— "I wouldn't agree that it's not Bavarian at all. But it needs to be fixed. Most of all, the genitive and preterite need to be replaced, and also some words. I'll help."

Brooks/Hern, The Guardian, 2020
bar.wikipedia.org/wiki/Dischkrian:Bundeswehr

How to represent a primarily spoken language?

- Normalized text (closely related standard language)

Etter litt godsnakk kom tre av kyrne ...

[After some coaxing, three of the cows came ...]

NB Tale

Norwegian

können sie ihre jugendzeit beschreiben

[Can you describe your youth?]

ArchiMob

Swiss German

How to represent a primarily spoken language?

- Normalized text (closely related standard language)
- Phone[m/t]ic transcriptions

""{t@4 l"it g""u:snAkk k"Om t4"e: "A:v C"y:n'@ ...

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chönd sii iri jugendziit beschriibe

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How to represent a primarily spoken language?

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- (More or less widely spread) orthographies

Nu leyt em de böyse vynd disse nacht ... UD LSDC
[Now, this night, the wicked enemy let them...] Low Saxon

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- Ad-hoc spellings

Nu leit em de baise Find düse Nacht ...

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How to represent a primarily spoken language?

- Normalized text (closely related standard language)
- Phone[m/t]ic transcriptions
- (More or less widely spread) orthographies
- Ad-hoc spellings

→ A tool that works for one type of written representation doesn't necessarily work for the others too

How to represent a (mostly spoken) language?

Speakers themselves can have different attitudes towards orthography!

Examples for Wikipedias in different dialects / regional languages:

De Brukers vun de Wikipedia op Plattdüütsch hebbt utmaakt, dat se de **Sass-Schrievwie** na dat Wöörbook vun [Johannes Sass](#) (kiek ok ünner [Wikipedia:Wöörböker](#)) bruken doot.

“The users of the Low German Wikipedia have agreed that they will use the Sass Orthography [...]”

Jrundsätzlich [[der Quälltäx ändere](#)]

Jeder schriev, wie em de Fingere jewaaße sin. |

“Fundamentally: Everyone writes just how they want.” (Cologne German) ¹⁶

Data scarcity & overlaps

Bavarian Wikipedia

- In mBERT's pretraining data
- In Bavarian named entity dataset (BarNER)
- In Bavarian treebank (MaiBaam)

Swiss German part-of-speech corpora

- Overlap between NOAH dataset and UZH Universal Dependencies dataset

Recommendations

Blaschke, Schütze & Plank (NoDaLiDa 2023)

"A survey of corpora for Germanic low-resource languages and dialects"

... for *using* dialect/LRL corpora

- Check the quality!
 - Any obvious issues? Language ID correct? Likely produced by actual speakers?
- Suitable written representation for your purposes?
- Overlaps between (pre-)training, dev, test data?
- Data outside traditional NLP venues
 - E.g., works by linguists

Recommendations

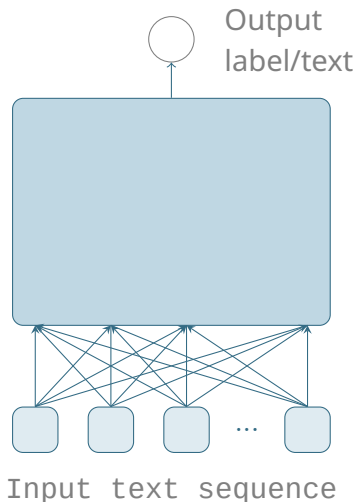
Blaschke, Schütze & Plank (NoDaLiDa 2023)

"A survey of corpora for Germanic low-resource languages and dialects"

... for *creating* dialect/LRL corpora

- Document the transcription guidelines / orthographies
- Share metadata like corpus size, data sources, annotation procedure; specify a license or access conditions (!)
- Used archives geared towards long-term storage (CLARIN, LRE Map, Zenodo, ...)

Overview



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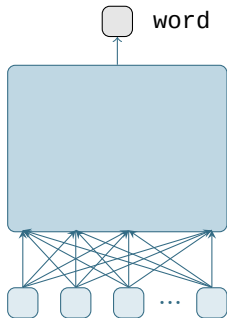
Linguistic differences

Differences from the standard language in

- **Pronunciation (→ spelling)**
- Lexicon
- Morphology
- Syntax
- Usage context

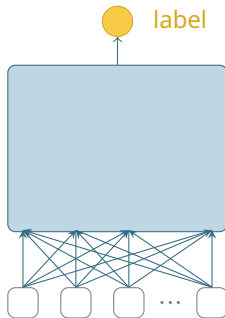
Cross-dialectal transfer

✗ Pretraining



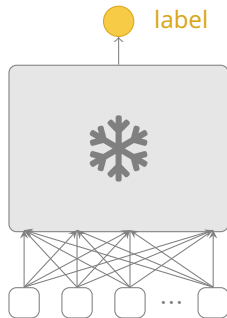
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✗ Finetuning



Task-specific input
text

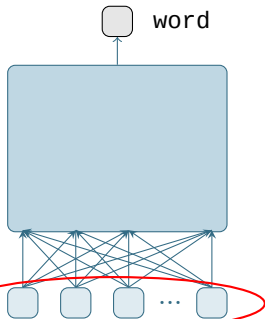
✓ Transfer



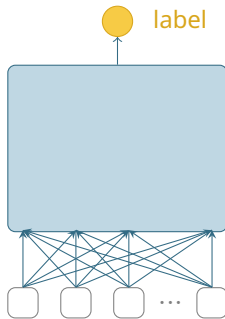
Input text in related
dialect

Cross-dialectal transfer

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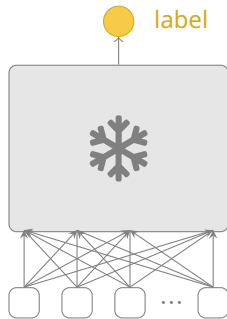


✗ Finetuning



Task-specific input
text

✓ Transfer



Input text in related
dialect

Non-standard orthographies + tokenization

Subword tokenization with GBERT

Die	Lammer	hat	ein	recht		sauberes	Wasser
Die	Lamm -er	hat	ein	recht		sauber -es	Wasser
D'	Lomma	hod	a	rechd	a	sauwas	Wossa
D '	Lom -ma	ho -d	a	rech -d	a	sau -was	Wo -ssa
<i>The</i>	<i>Lammer</i>	<i>has</i>	<i>a</i>	<i>fairly</i>	<i>a</i>	<i>clean</i>	<i>water</i>

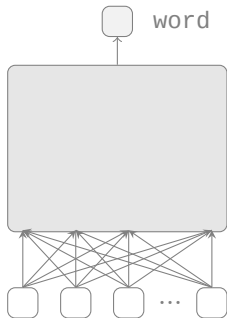
“The Lammer (river) has fairly clean water”

Sentence via bar.wikipedia.org/wiki/Låmma

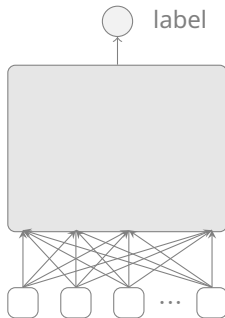
GBERT: Chan+, COLING 2020, “German’s next language model”

More robust input representations?

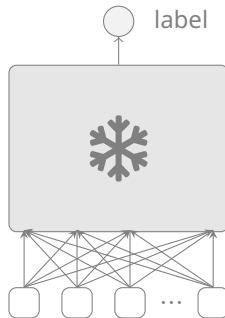
Diff. architecture



Change finetuning



Task-specific input
text

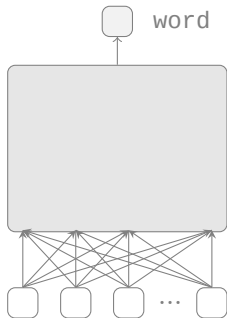


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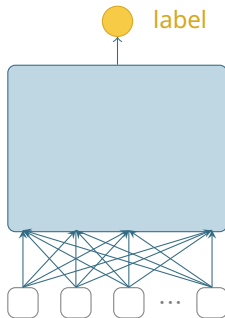
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consectetur adipiscing elit,
sed do eiusmod tempor incididunt
ut labore et dolore magna aliqua.
Ut enim ad minim veniam,
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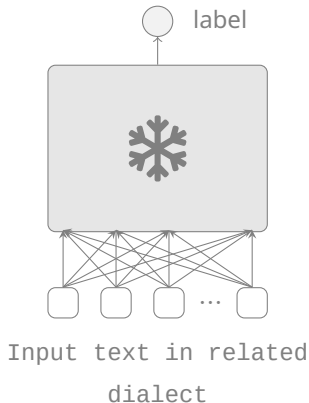
Diff. architecture



Change finetuning



Task-specific input
text



Character-level “noise”

Die	Lammer	hat	ein	recht		sauberes	Wasser
Die	Lamm -er	hat	ein	recht		sauber -es	Wasser
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D '	Lom -ma	ho -d	a	rech -d	a	sau -was	Wo -ssa
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D (e	Lamm -er	hat	ein	recht		sau -ben -es	Wasser



Inject 15% of finetuning words with “noise”

“Improving zero-shot cross-lingual transfer between closely related languages by injecting character-level noise”

Aepli & Sennrich (ACL Findings 2022)

Character-level “noise”

D(e Lammer hat ein recht saubenes Wasser
D (e Lamm -er hat ein recht sau -ben -es Wasser

 Inject 15% of words with “noise” (Aepli/Sennrich 2022)

How many words should we modify this way?

**Does Manipulating Tokenization Aid Cross-Lingual Transfer?
A Study on POS Tagging for Non-Standardized Languages**

Verena Blaschke

Hinrich Schütze

Barbara Plank

Noise levels

0 %: The WNUT workshop focuses on core NLP tasks over user-generated text, such as that found on social media, web forums, online reviews, digital health records, or language learner essays.

15 %: The WNUT workshop focuses on core NLP tasks over user-generated text, such as that found on social media, web forums, online reviews, digital health records, or language learner essays.

...

95 %: The WNUT workshop focuses on core NLP tasks over user-generated text, such as that found on social media, web forums, online reviews, digital health records, or language learner essays.

Dialect POS tagging

- Part-of-speech tagging
- Transfer from closely related standard languages to...
 - 3 dialects / regional languages of Germany
 - 3 Norwegian dialects
 - 2 regional languages of France
 - 6 Finnish dialects
 - 4 Arabic varieties
- Monolingual BERTs/RoBERTas vs. XLM-R vs. mBERT
- Noise: Modify {0, 15, 35, 55, 75, 95}% of words

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→ *Consistent performance drops (standard/dialect)*
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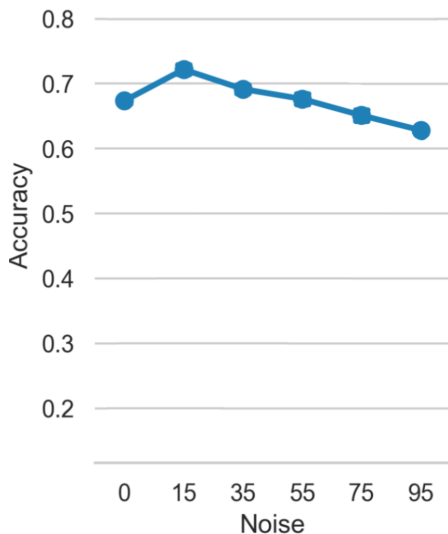
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- Noise: Modify {0, 15, 35, 55, 75, 95}% of words

→ *Optimal choice varies across languages/models*

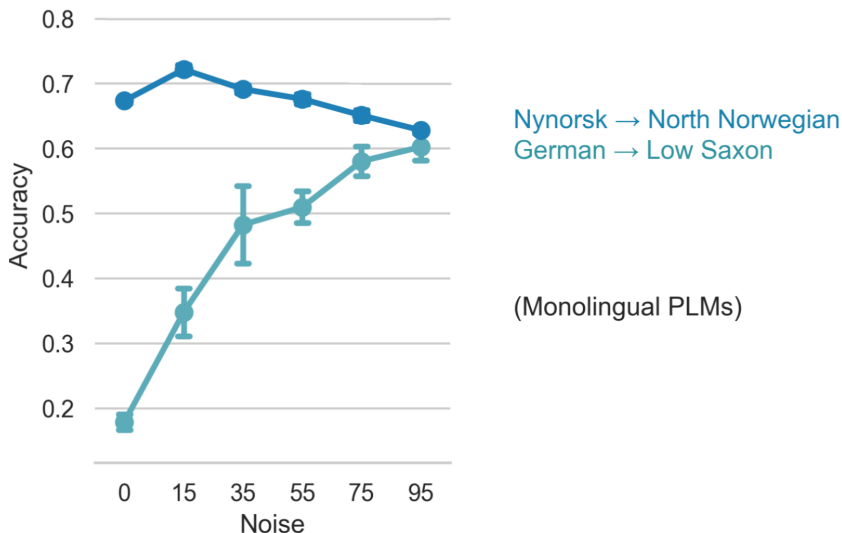
How much noise to add?



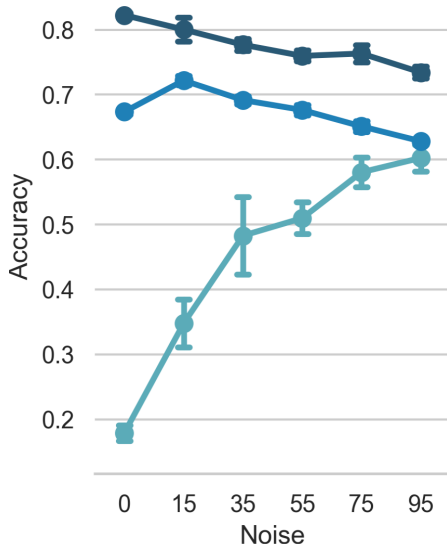
Nynorsk → North Norwegian

(Monolingual PLMs)

How much noise to add?



How much noise to add?



Finnish → Savonian Finnish

Nynorsk → North Norwegian

German → Low Saxon

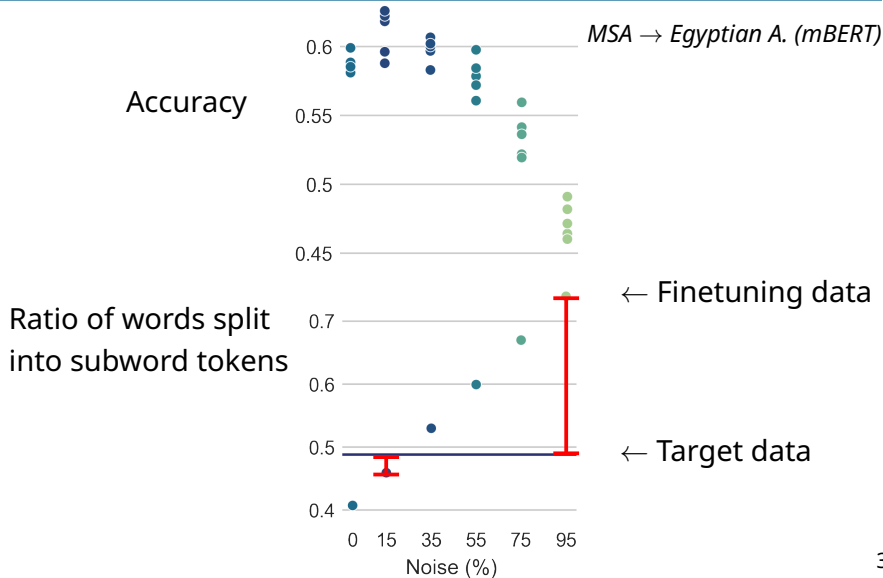
(Monolingual PLMs)

What explains this?

The more similar the word-splitting rates are, the better the results!

Die	Lammer	hat	ein	recht		sauberes	Wasser
[Die]	[Lamm] [-er]	[hat]	[ein]	[recht]		[sauber] [-es]	[Wasser]
D'	Lomma	hod	a	rechd	a	sauwas	Wossa
[D']	[Lom] [-ma]	[ho] [-d]	[a]	[rech] [-d]	[a]	[sau] [-was]	[Wo] [-ssa]
D(e	Lammer	hat	ein	recht		saube n es	Wasser
[D] ([e]	[Lamm] [-er]	[hat]	[ein]	[recht]		[sau] [-ben] [-es]	[Wasser]

Noise injection & subword tokenization



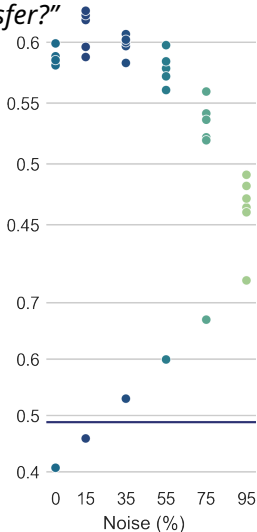
Recommendation

Blaschke, Schütze & Plank (VarDial @ EACL 2023)

"Does manipulating tokenization aid cross-lingual transfer?"

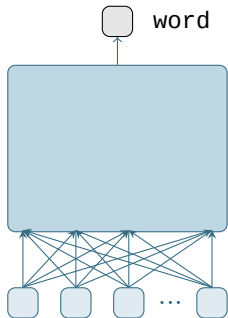
Spearman's rank correlation of > 0.8 for most models/languages (often > 0.95)!

- Don't want to tune noise level as a hyperparameter?
→ Compare the *split word ratios* for different noise levels
+ pick the noise level with the smallest difference
- Otherwise: start low + increase noise until dev accuracy drops

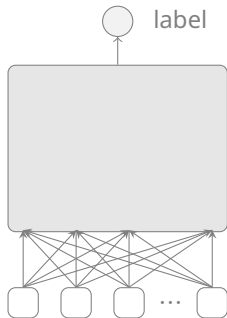


More robust input representations?

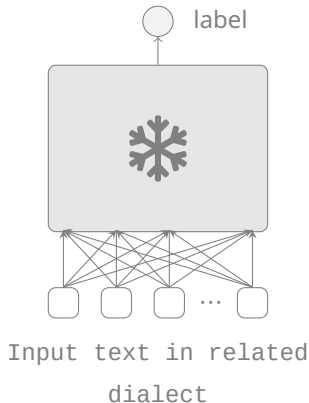
Diff. architecture



Change finetuning



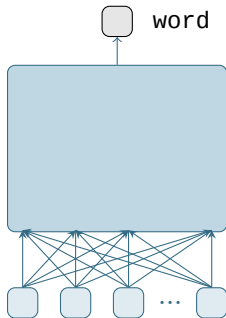
Task-specific input
text



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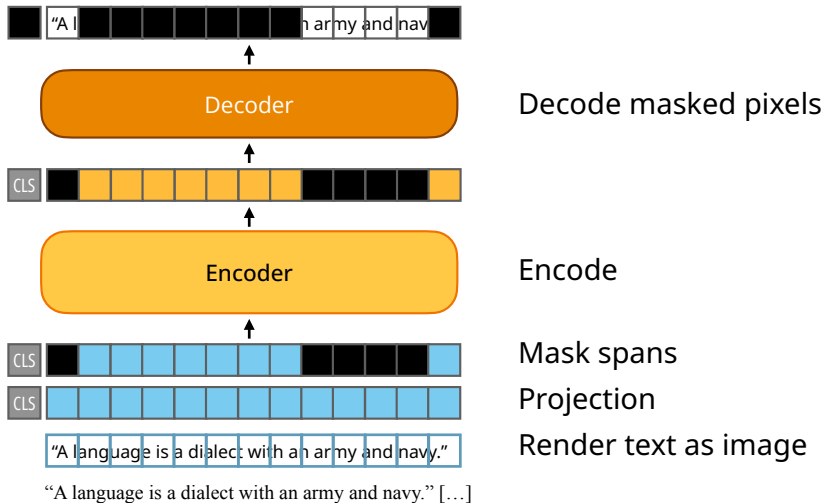
More robust input representations?

Diff. architecture

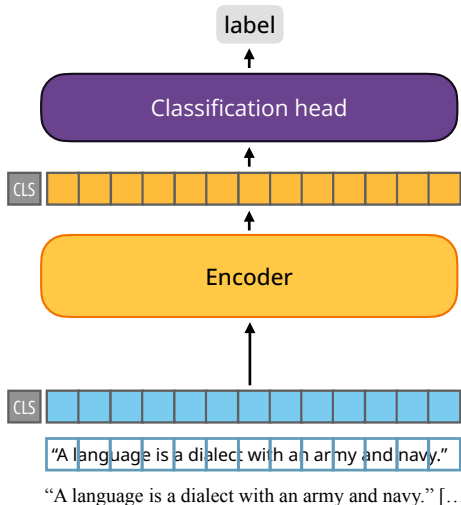


“Language modelling with pixels”
Rust, Lotz, Bugliarello, Salesky,
de Lhoneux & Elliott (ICLR 2023)

Pixel models (Rust+, 2023) – pretraining



Pixel models (Rust+, 2023) – finetuning



Text rendering can be adjusted for word-level tasks

The WNUT workshop focuses

Pixel models – robustness

(English) Pixel generally more robust against orthographic attacks than BERT

Attack	Sentence
NONE	Penguins are designed to be streamlined
CONFUSABLE	P enguin s are designed to be streamlined
SHUFFLE (INNER)	Pegnuins are dnesigned to be sieatrnmlnd
SHUFFLE (FULL)	ngePnius rae dsgeidnei to be etimaslernd
DISEMOVOWEL	Pngns r dsgrnd to be strmlnd
INTRUDE	Pe‘nguins a{re d)esigned t;o b*e stre<amlined
KEYBOARD TYPO	Penguinz xre dwsigned ro ne streamllned
NATURAL NOISE	Penguijs ard design4d ti bd streamlinfd
TRUNCATE	Penguin are designe to be streamline
SEGMENTATION	Penguinsaredesignedtobestreamlined
PHONETIC	Pengwains’s ar dhiseind te be storimlignd

Pixel models – robustness

Die	Lam	mer	hat	ein	recht	saub	eres	Wasser
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D'	Lomma	hod	a	rechd	a	sauwas	Wossa
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Evaluating Pixel Language Models on Non-Standardized Languages

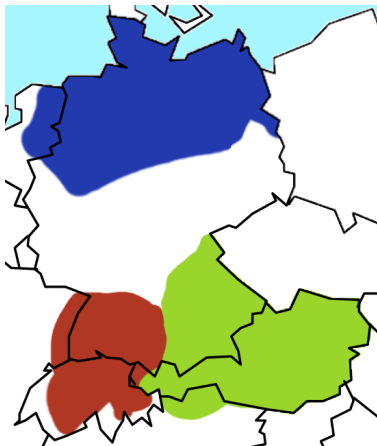
Alberto Muñoz-Ortiz 

Verena Blaschke  

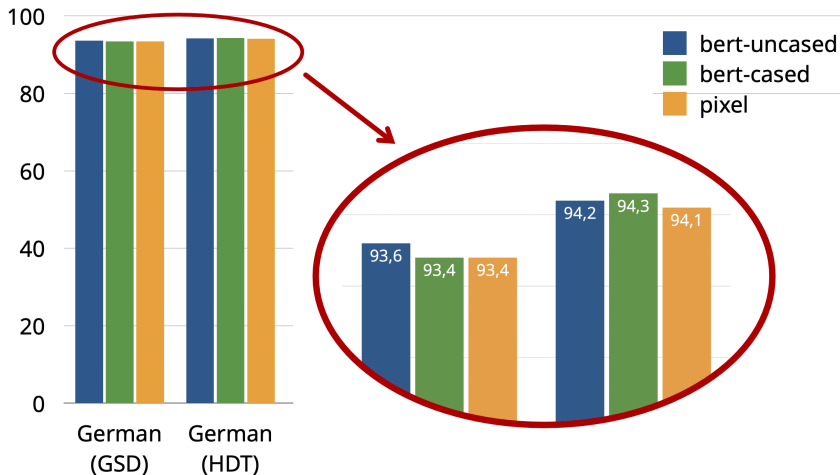
Barbara Plank  

German Pixel experiments

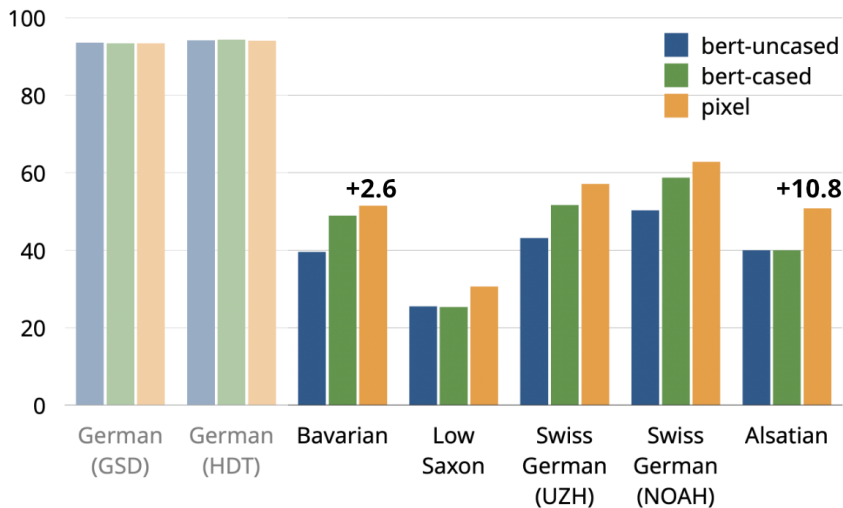
- German Pixel model (new!)
 - Same training data as a German BERT model
- Finetune on German, evaluate on dialects/regional languages
- 2 grammatical tasks:
POS tagging, parsing
- 2 semantic tasks:
intent classification (easy),
topic classification (harder)



German Pixel: POS tagging (accuracy)



German Pixel: POS tagging (accuracy)



Pixel: Trade-off

Muñoz-Ortiz, Blaschke & Plank (COLING 2025)

"Evaluating pixel language models on non-standardized languages"

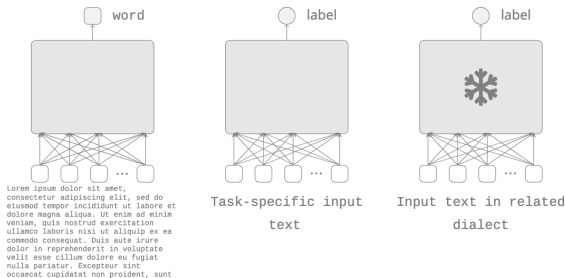
In 3 of 4 tasks*, Pixel is roughly on par with BERT on German data, but outperforms BERT on dialectal data!

Is the extra compute needed for rendering the images worth it for standard-language data? (maybe not)

But for data with otherwise bad tokenization? (looks promising!)

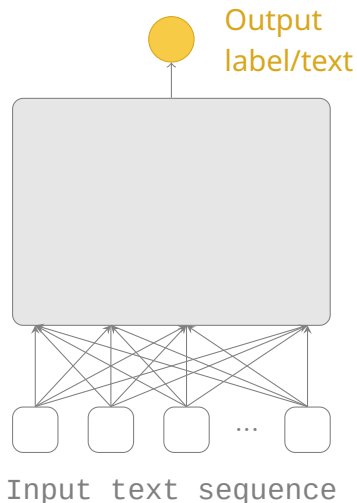
*POS tagging, parsing, intent classification (but not topic classification)

Modelling non-standard data



- Different model architectures
- Changing the tokenizer
- Making the fine-tuning data more like the target data
- Normalizing the target data
- ...

Overview



👤 What tools and why?

🤖 Modelling non-standard data

🧩 Dialect data

Linguistic differences

Differences from the standard language in

- Pronunciation (→ spelling)
- Lexicon
- Morphology
- Syntax
- **Usage context**

Why dialect NLP?

Why, given that the speakers also speak a/the standard language?

- Linguistics
- ML research
- Applied reasons
 - Industry perspective
 - Speaker perspective

What Do Dialect Speakers Want?

A Survey of Attitudes Towards Language Technology for German Dialects

Verena Blaschke 

Christoph Purschke 

Hinrich Schütze 

Barbara Plank 

Motivation

Language technology (LT) – applied NLP systems

- Machine translation (MT)
- (Written) chatbots
- (Spoken) virtual assistants
- Transcription (ASR)
- Speech synthesis (TTS)
- Search engines
- Spellcheckers

There is already some research on NLP for German dialects

Research questions

1. Which dialect technologies do respondents find especially useful?
2. Does this depend on...
 - whether the input or output is dialectal?
 - whether the LT works with speech or text data?
3. How does this reflect relevant sociolinguistic factors?

Questionnaire

- Target audience:
speakers of German dialects + regional languages
- 3 weeks
- Word-of-mouth, social media, mailing lists,
dialect/heritage societies

Questions

- Part I: about their dialect
- Part II: about attitudes towards LTs for their dialect

Questionnaire

Speech-to-text systems transcribe spoken language. They are for instance used for automatically generating subtitles or in the context of dictation software.

Do you agree with the following statements?

There should be speech-to-text software...

- ...that transcribes audio recorded in my dialect as written Standard German.
- ...that transcribes audio recorded in my dialect as written dialect.

Questionnaire

G310 

20. Stimmen Sie den folgenden Aussagen zu?

**Es sollte
Transkriptionsprogramme
geben, ...**

Ja,
unbedingt

Eher ja

Weder
noch

Eher nein

Nein, das
halte ich
nicht für
sinnvoll

Das kann
ich nicht
bewerten

... die Audioaufnahmen in
meinem Dialekt als
geschriebenes
Hochdeutsch wiedergeben.

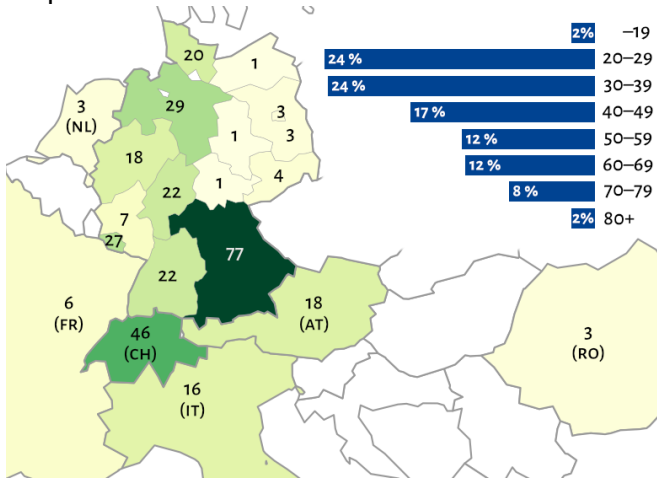
☐☐☐☐☐☐

... die Audioaufnahmen in
meinem Dialekt als
geschriebenen Dialekt
wiedergeben.

☐☐☐☐☐☐

Dialect background and attitudes

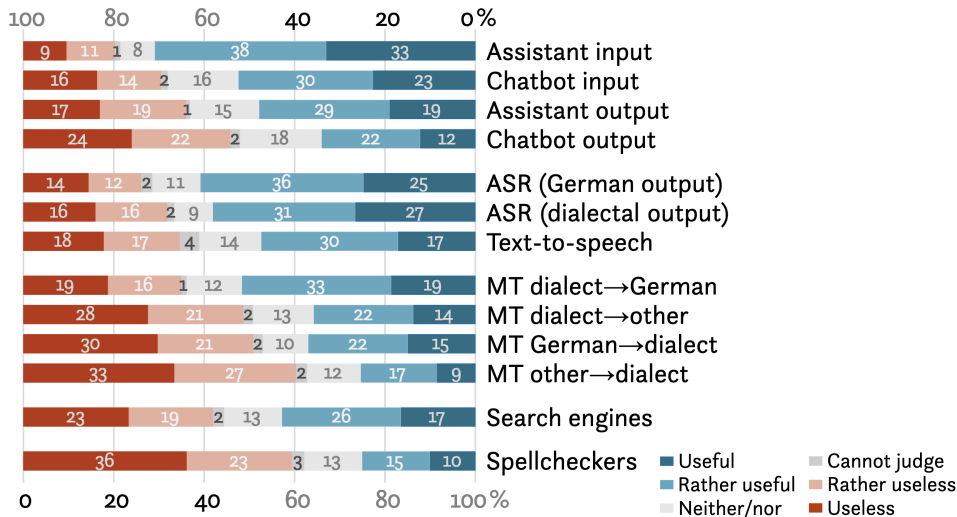
441 respondents – 327 of whom speak a German dialect and finished the questionnaire



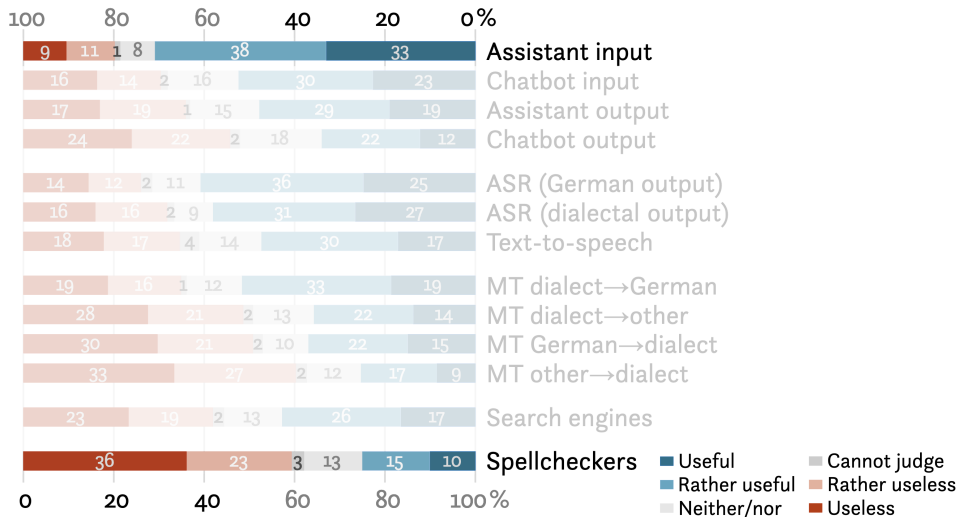
Dialect background and attitudes

- 52 % speak their dialect daily
- 65 % against standardized orthography
- 66 % write their dialect (even if rarely)
- 35 % are actively involved in dialect preservation
 - dialect preservation societies (13 %), teachers, dialectologists, ...
 - speaking the dialect in public, with children
- 14 % already familiar with an LT for their dialect

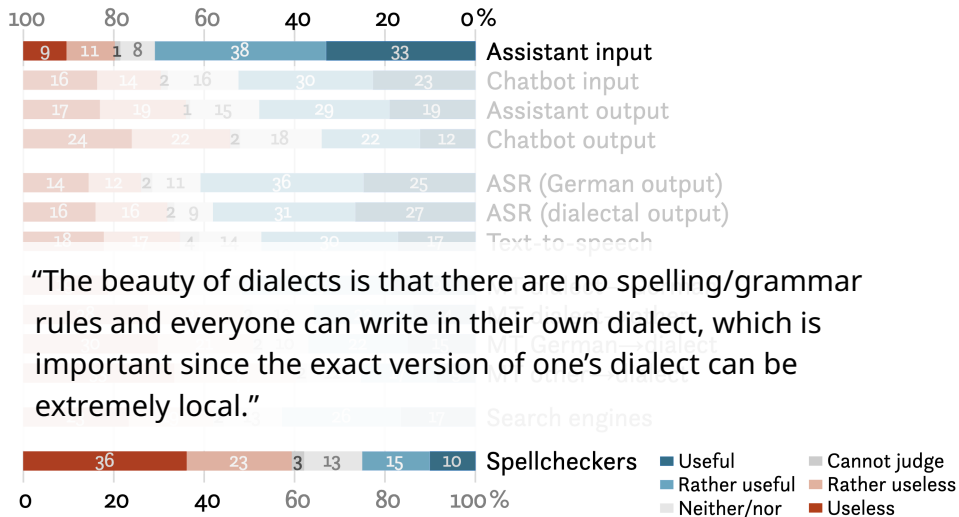
Which dialect LTs are deemed useful?



Which dialect LTs are deemed useful?

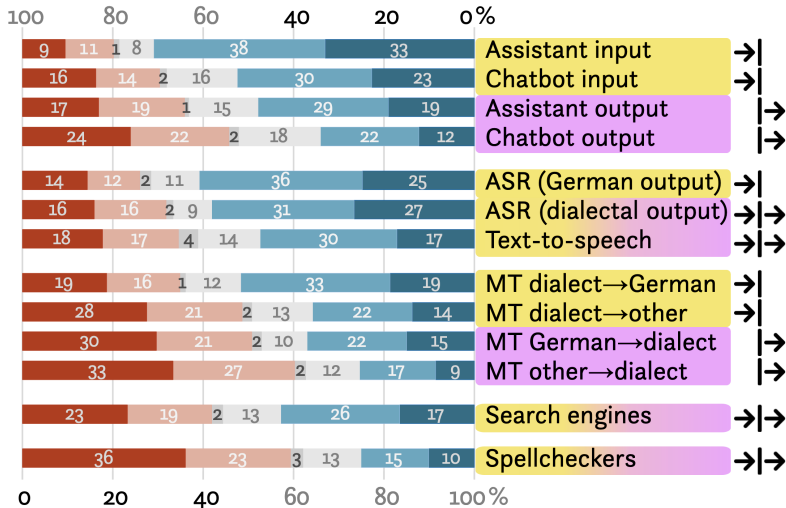


Which dialect LTs are deemed useful?

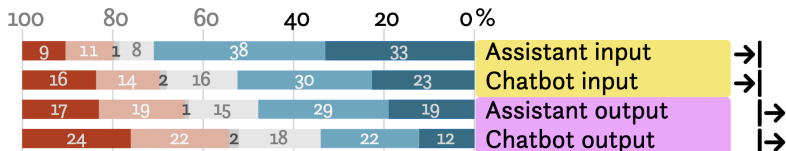


“The beauty of dialects is that there are no spelling/grammar rules and everyone can write in their own dialect, which is important since the exact version of one’s dialect can be extremely local.”

Dialect input vs. output?

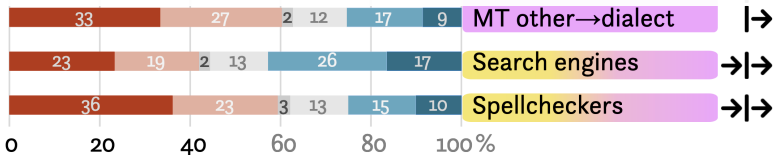


Dialect input vs. output?

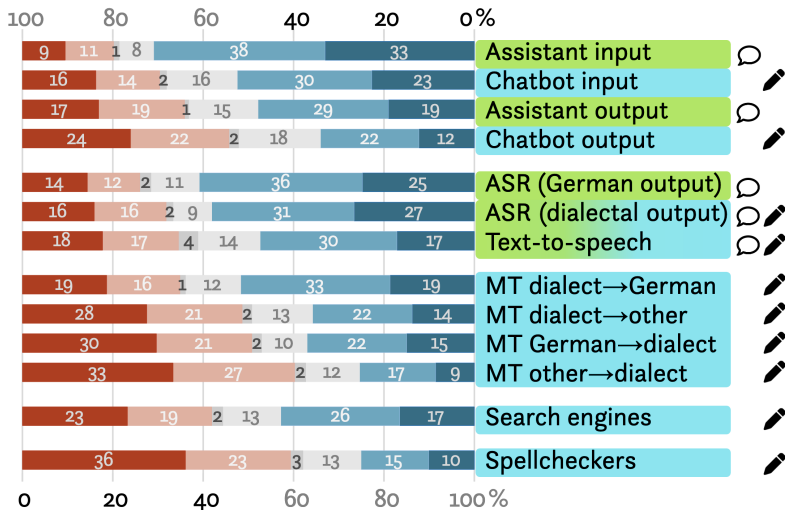


"It might be annoying if the output is slightly different from your own dialect."

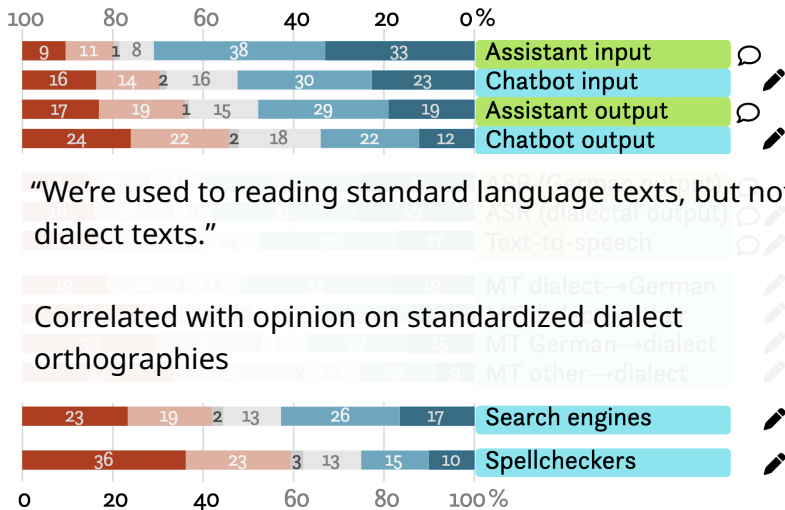
"Dialect is the language of the heart, not of a machine."



Spoken vs. written dialect?



Spoken vs. written dialect?



Do attitudes reflect sociolinguistic factors?

“Language activists” (involved in preservation)

- More in favour of dialect LTs involving text than non-activists
- ! Removing the activists' responses has very little impact on the order of preferred LTs

Do attitudes reflect sociolinguistic factors? (region)



- Low Saxon
 - Recognized as language
 - Linguistically more distant
 - Preservation efforts
 - 👍 Dialect LTs in general
 - 👍 Orthographies + spellcheckers
- Central/Southern Germany + Austria
 - Partially replaced by regiolects
- Swiss German
 - High prestige
 - Strong diglossia
 - 👎 Orthographies + spellcheckers
 - 👍 Spoken dialectal input

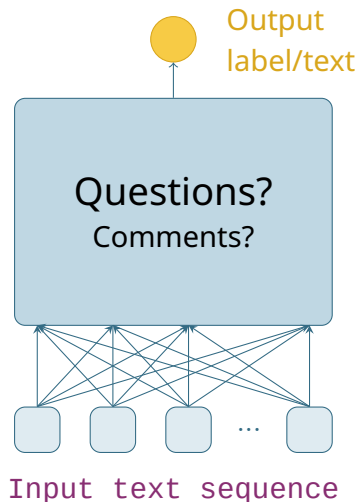
Takeaways

Blaschke, Purschke, Schütze & Plank (ACL 2024)

“What do dialect speakers want?”

- Interest in LTs processing dialectal input & speech-based LTs
- Speaker(group)s aren't monoliths!
- Sociolinguistic backgrounds are an important factor (but individual opinions exist too)
- Actively consider the wants & needs of the relevant speaker communities!

Summary – challenges & approaches



Which tools and why?

- Consider the speaker perspectives

Modelling non-std data

- Be creative!

Data availability & quality

- Which language varieties are currently included in research & language tech?
- How trustworthy and generalizable are your data?