

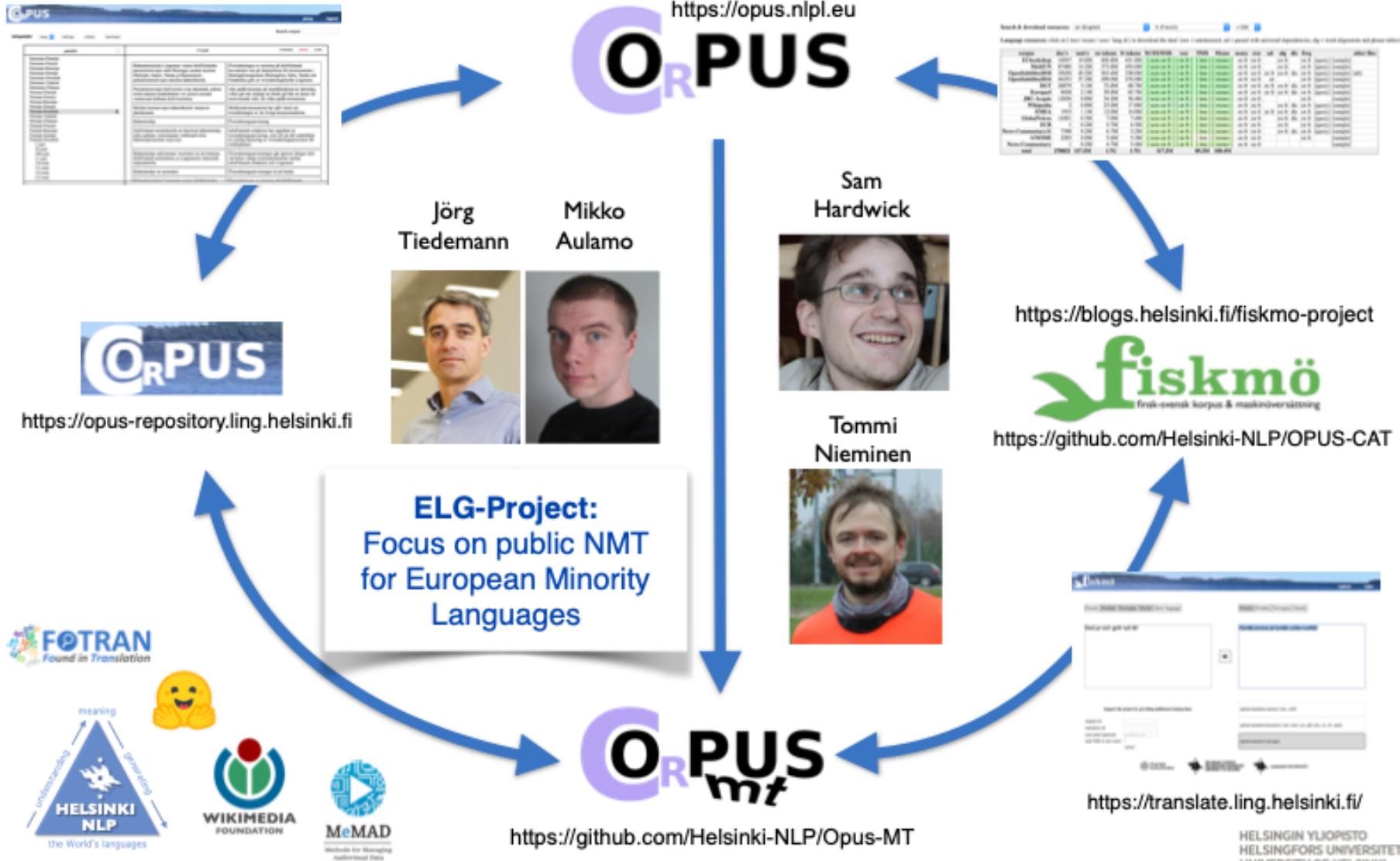
OPUS-MT: Tools and resources for open translation services

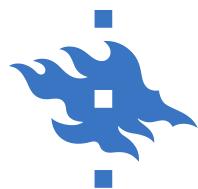
Jörg Tiedemann, Tommi Nieminen

University of Helsinki



OPUS-MT - Public NMT Models & Tools
Language Technology - University of Helsinki





OPUS-MT

<https://github.com/Helsinki-NLP/Opus-MT>

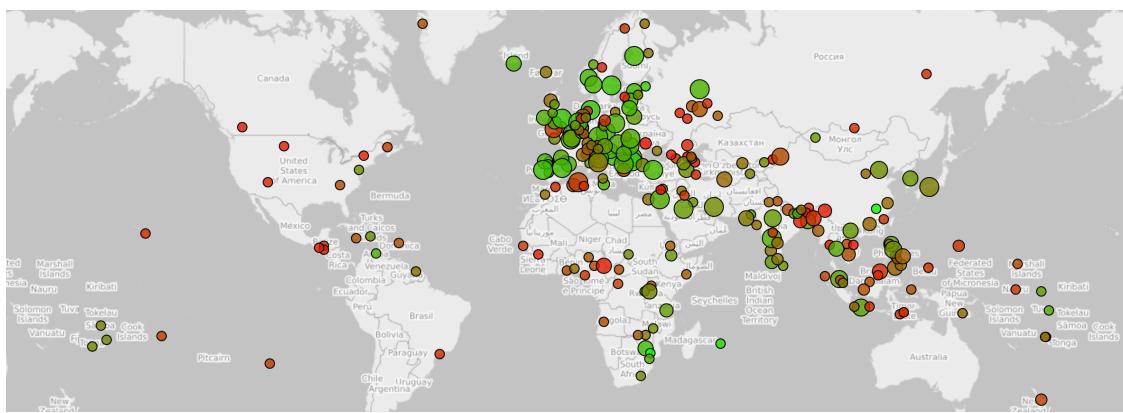


Available software:

- MT server solution based on Marian NMT
- dockerised web-app, translation interface and API
- NMT training pipeline (OPUS-MT-train)
- CAT integration (OPUS-CAT)

Pre-trained translation models:

- over 1,000 bilingual and multilingual models





EUROPEAN
LANGUAGE
GRID

```
{
    "alignment": [
        "0-0 0-2 1-1 2-3",
        "0-0 1-1 3-2 4-3 5-4"
    ],
    "result": "How are you? The translation is fun.",
    "server": "192.168.1.18:20001",
    "source": "fi",
    "source-segments": [
        "Mit\u00e4 kuuluu ?",
        "K\u00e4\u00e4nn\u00f6 s on hauskaa ."
    ],
    "source-sentences": [
        "Mit\u00e4 kuuluu?",
        "K\u00e4\u00e4nn\u00f6 s on hauskaa."
    ],
    "target": "en",
    "target-segments": [
        "How are you ?",
        "The translation is fun ."
    ],
    "target-sentences": [
        "How are you?",
        "The translation is fun."
    ]
}
```

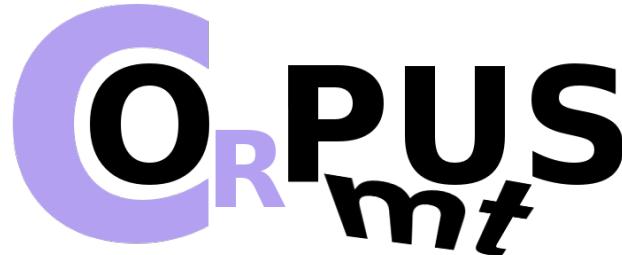
Various development demos:

<https://translate.ling.helsinki.fi/>

<https://translate.ling.helsinki.fi/ui/memad>

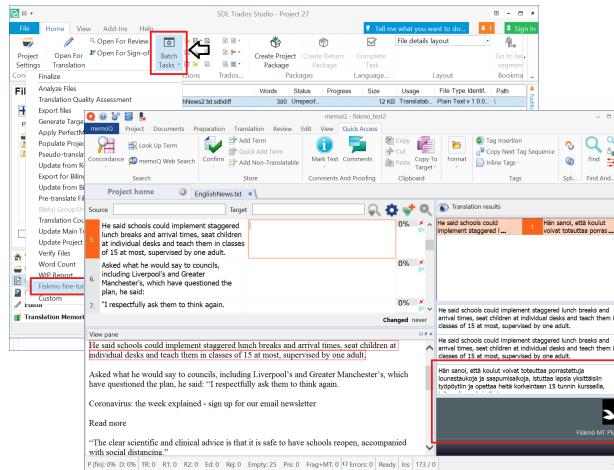
<https://translate.ling.helsinki.fi/ui/sami>

<https://translate.ling.helsinki.fi/ui/ukrainian>



<https://github.com/Helsinki-NLP/Opus-MT>

OPUS-CAT - plugins and local MT engines
<https://helsinki-nlp.github.io/OPUS-CAT/>



Project@ELG: <https://live.european-language-grid.eu/catalogue/project/2866>

OPUS-MT at huggingface
<https://huggingface.co/Helsinki-NLP>



[Back to all models](#)
Model: Helsinki-NLP/opus-mt-ROMANCE-en

pytorch rust marian lm-head seq2seq roa en translation

Hosted inference API ⓘ

translation

Compute

This model can be loaded on the Inference API on-demand.

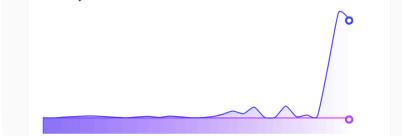
Monthly model downloads

Helsinki-NLP/opus-mt-ROMANCE-en

31,680 downloads last 30 days

pytorch

tf



How to use this model directly from the [transformers](#) library:

```
from transformers import AutoTokenizer,
AutoModelWithLMHead

tokenizer = AutoTokenizer.from_pretrained("Helsinki-
NLP/opus-mt-ROMANCE-en")

model = AutoModelWithLMHead.from_pretrained("Helsinki-
NLP/opus-mt-ROMANCE-en")
```

List all files in model · See raw config file



EUROPEAN
LANGUAGE
GRID

RELEASE 3



https://live.european-language-grid.eu/catalogue/project/2866



Catalogue ↴

Documentation & Media ↴

About ↴



◀ Go to catalogue



Overview

Related LRTs & projects

Funded Language Resources and Technologies

- ⓘ HelsinkiNLP - OPUS-MT (bat-rus): Baltic languages-Russian machine translation (2022.03.13)
- ⓘ HelsinkiNLP - OPUS-MT: English-Belarusian machine translation (2022.03.13)
- ⓘ HelsinkiNLP - OPUS-MT: English-Russian machine translation (2022.03.13)
- ⓘ HelsinkiNLP - OPUS-MT: English-Ukrainian machine translation (2022.03.13)
- ⓘ HelsinkiNLP - OPUS-MT: French-Belarusian machine translation (2022.03.13)
- ⓘ HelsinkiNLP - OPUS-MT: French-Russian machine translation (2022.03.13)
- ⓘ HelsinkiNLP - OPUS-MT: French-Ukrainian machine translation (2022.03.13)



Type here to search



22.48
5.6.2022

