

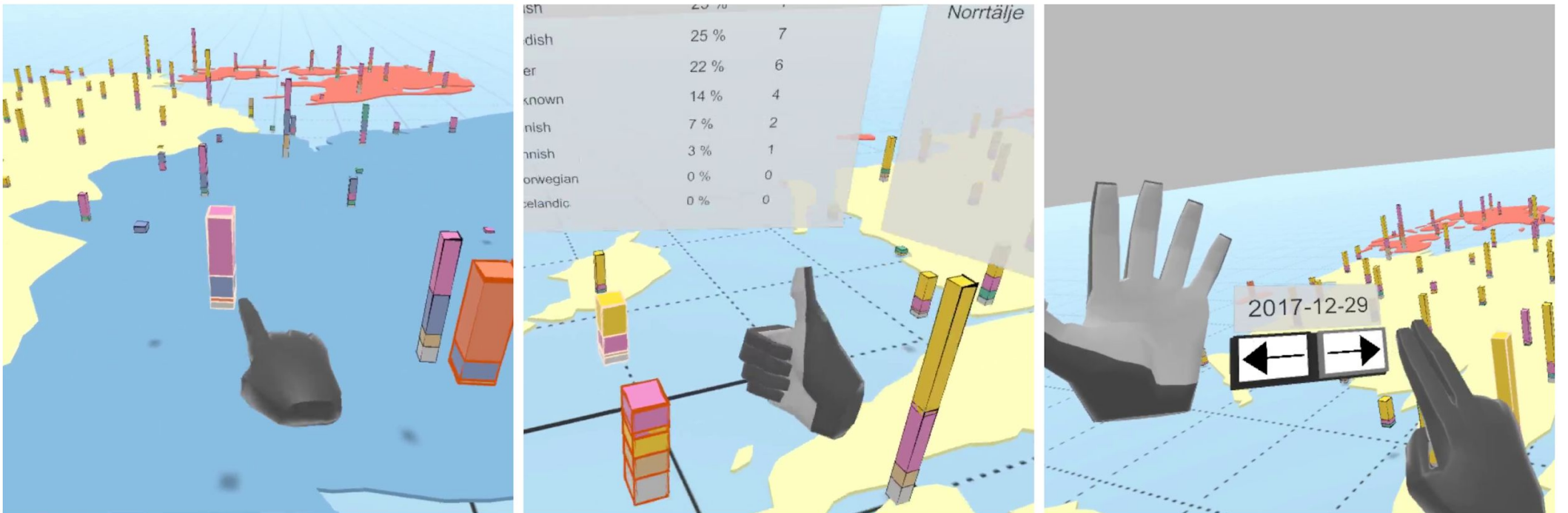
Virtual Reality & Digital Humanities

Room K1073

Fri 30 Nov 09:00-12:00

Aris Alissandrakis, Nico Reski, Jukka Tyrkkö, and Mikko Laitinen

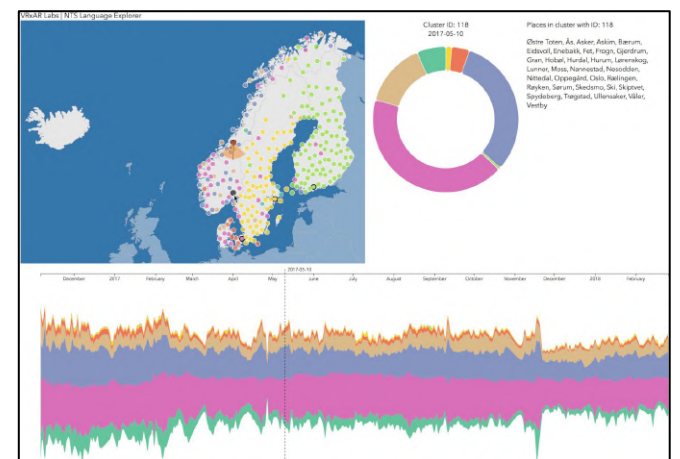
In the context of using immersive *Virtual Reality* (VR) within the domain of *Digital Humanities*, please come check our demo session tomorrow morning at room K1073 (across the main conference location).



We will demonstrate our *hybrid collaborative immersive analytics experience* that was developed by the VRxAR Labs research group at Linnaeus University, Växjö, Sweden.

Our experience consists of a VR system and a non-immersive web application, that allows for synchronous exploration of data through two users: one within VR, and one outside VR.

The immersive application (above) is centered around a room-scale VR setting, using a head-mounted display as the user's visual interface, and 3D gestural input as the interaction interface to operate the application. The non-immersive application (right) is an interactive 2D information visualization that runs in a web browser and can be operated through a normal desktop computer, notebook, and tablet or smartphone device.



For the the purpose of this demonstration, we invite you to explore the language variability of Tweets within the Nordic countries from a sociolinguistics perspective. The visualized data were collected within the scope of the Nordic Tweet Stream (NTS), a dynamic corpus of Tweets, a cross-disciplinary project of computer scientists and sociolinguists at Linnaeus University.

- Reski, N., Alissandrakis, A., and Tyrkkö, J. (submitted). "Oh, that's where you are": Presenting a **Hybrid Collaborative Immersive Analytics System**.
- Alissandrakis, A., Reski, N., Laitinen, M., Tyrkkö, J., Levin, M., and Lundberg, J. (2018) **Visualizing dynamic text corpora using Virtual Reality**. The 39th Annual Conference of the International Computer Archive for Modern and Medieval English (ICAME39): Corpus Linguistics and Changing Society. Tampere, Finland, 30 May – 3 June, 2018, page 205.
- Laitinen, M., Lundberg, J., Levin, M., & Lakaw, A. (2017). **Utilizing Multilingual Language Data in (Nearly) Real Time: The Case of the Nordic Tweet Stream**. Journal of Universal Computer Science (Online), 23(11), 1038–1056.

