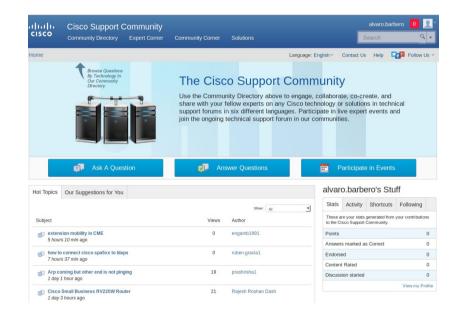
Auto-answering in the semantic space

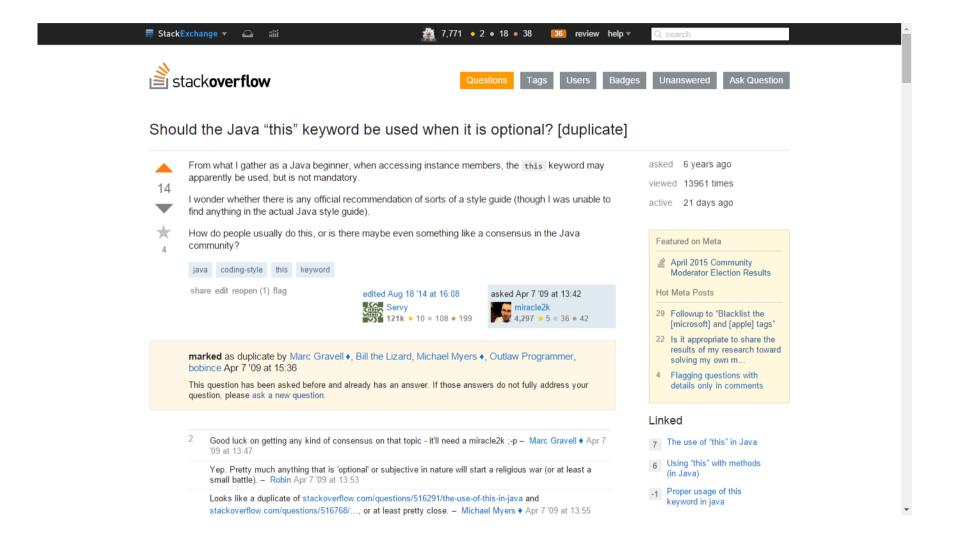
Álvaro Barbero Jiménez

The problem

- Customer service doesn't scale
 - Even with the use of online boards and communities!
- Users repeatedly ask the same or very similar questions
 - How can we improve the speed of question answering?

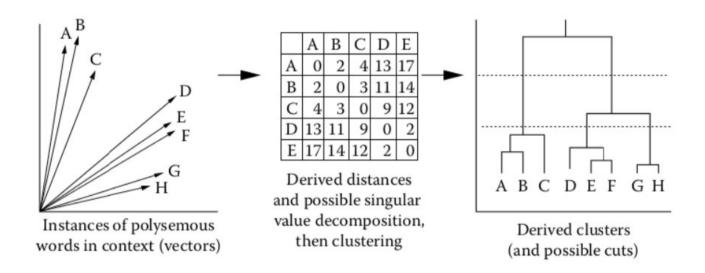


Solutions out there

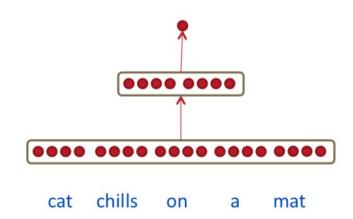


Can we automate this?

The key idea: semantic embeddings







Wikipedia Embedding



Combining embeddings



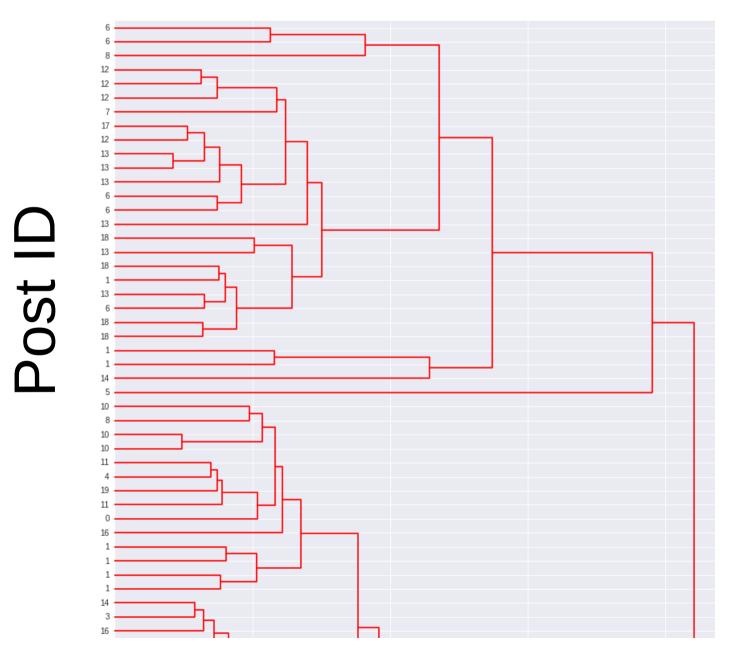
General language embedding

Domain language embedding





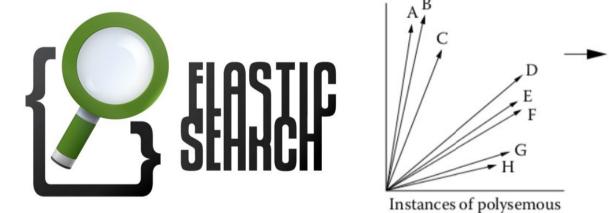
CISCO posts embedding

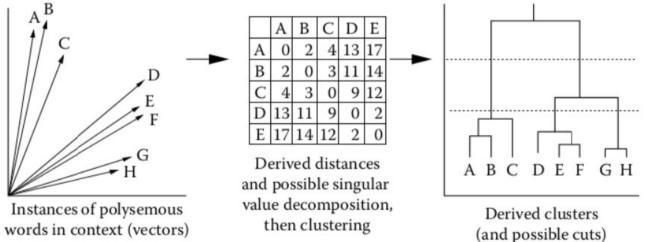


Label agreement score on stackexchange community

With only Wikipedia embedding	With Wikipedia + CISCO + Stackexchange embedding
0.519374504602	0.7300018904

Fast search filtering





Conclusions

- Recommendations for already existing solutions to new questions might be possible using this technology.
- Scalability guaranteed by fast search.