

Distributional semantics goes to church

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How can we use visual analytics to explore the performance of token-level vector space models?
A test on 249 occurrences of *church* from Semcor, manually annotated for senses. (2D representation)

service

building

congregation

organization

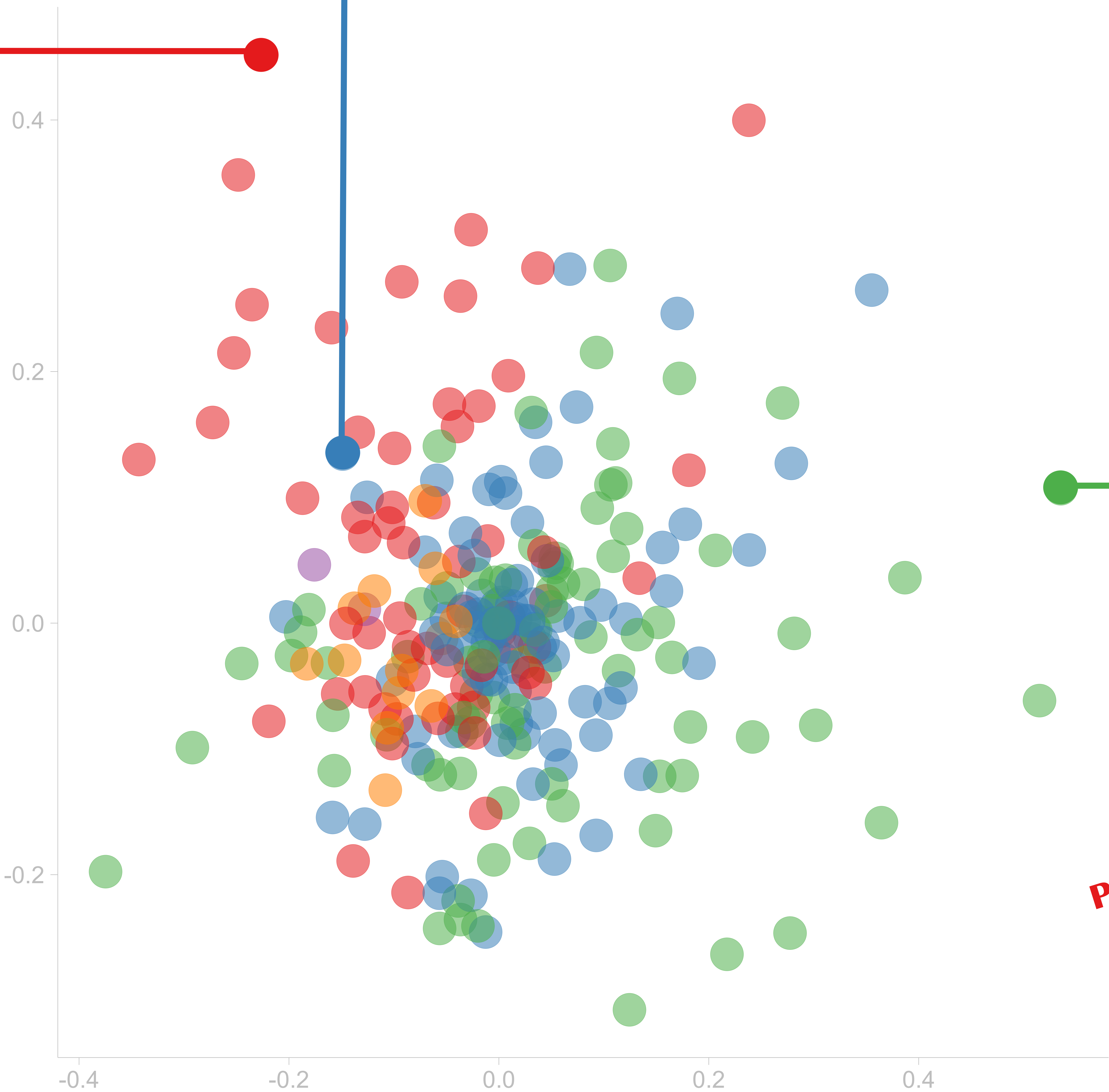
metalinguistic

	column/N	church/N	workbench/N	catholic/J	outside/N	see/V	commitment/N	mission/N	...
obelisk/N	5.768	4.078	0.0	0.0	0.0	0.0	0.0	0.0	...
top/N	2.965	1.967	5.044	0.0	0.0	0.0	0.0	0.0	...
ambition/N	0.0	2.419	0.0	0.0	0.0	1.337	0.0	0.0	...
hierarchy/N	0.0	3.518	0.0	5.476	0.0	0.0	0.0	0.0	...
dedication/N	0.0	2.574	0.0	0.0	0.0	1.491	5.499	4.825	...
door/N	0.0	0.0	0.0	0.0	4.428	0.741	0.0	0.0	...

at the **obelisk** and **the church** at the **top** of the

in the **hierarchy** of **the church** - his **ambitions** for the

the front door of **the church** intelligently and with **Christian dedication**



Play it out
yourself!

