- 1 | intro
- 1.1 | speaking is important
- 1.2 | tutorial: probably tuesdays and thursdays at lunch
- 2 | isomorphisms
- 2.1 | an invertible / bijective map from one vetorspace to another
- 2.2 | an operator (map from a vector space to itself) is bijective iff it is surjective or injective
- 3 | 3D Exercises
- 3.1 | **Axler3D.3**
- 3.1.1 | suppose V is finite-dimensional, U is a supspace of V, and $S \in \mathcal{L}(U,V)$. Prove there exists an invertible operator $T \in \mathcal{L}(V)$ s.t. Tu = Su for every $u \in U$ iff S is injective
- 3.1.2 | maybe S needs to be an operator on $\mathcal{L}(U)$?

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