

- Do algebra with matrices with vectors - Works because linear operations
- Only linear transformations # Linearity
- transformations
- combinations
- independence
- You can do scalar multiplication and add them together # Algebra
- Do stuff to things, maybe not add/multiply, numbers
- Add and multiply
- $\text{abs}(x) \leq 2$

## 1 | Eigen

- 'german' meaning own, characteristic
  - cannot have an eigenspace without an eigenvalue/eigenvector
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