1 | Overview

1.1 | Intuition

- If you have a vector list v that is a linear combination of vectors in V, or equivalently,
- $$v = a_1 v_1 + ... + a_m v_m \text{where} v_1, ..., v_m \in V$$
- And those choices of $a_1, ..., a_m$ are unique, then this is a linear independence? ## #definition linearly independent > - The empty list $()$ is linearly independent > - A list $v_1, ..., v_m$ of vectors in V is called ***linearly independent*** if the only choice of $a_1, ..., a_m \in F$ that makes $a_1 v_1 + ... + a_m v_m$ equal 0 is $a_1 = ... = a_m = 0$
- ^^^ what the heck is that last part about everything equaling 0?? #todo-exr0n KBe20math530floQuestions

---