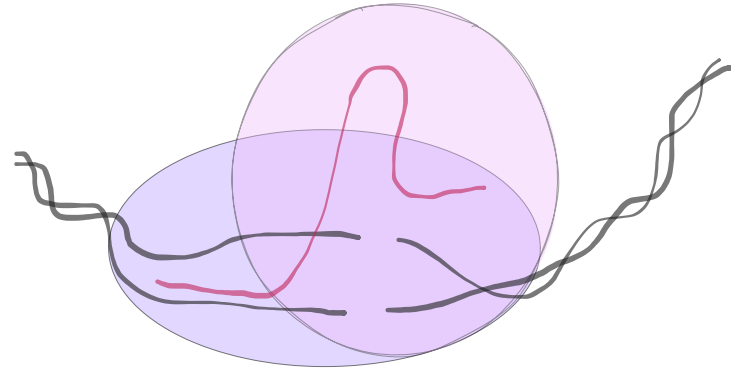
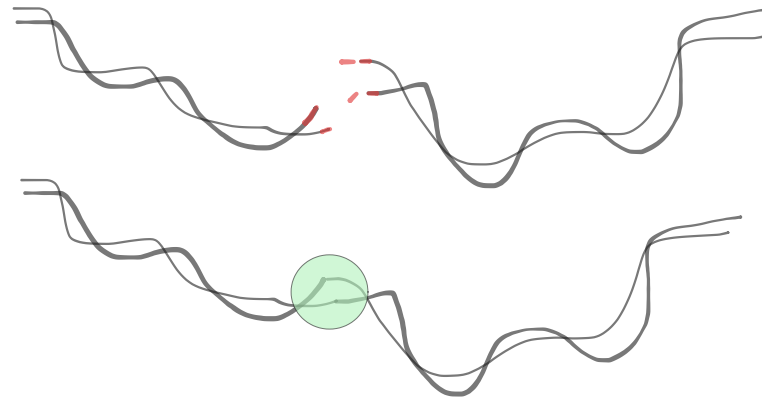


Gene deletion

CRISPR-Cas9 induced DSB

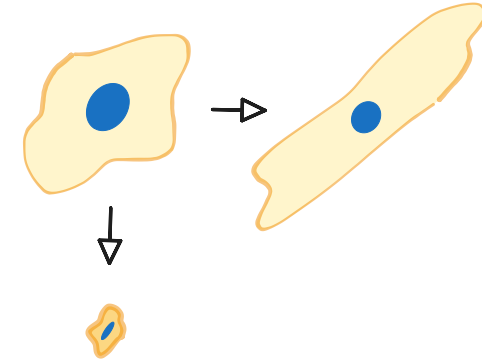


Cell repairs DSB but some bases lost



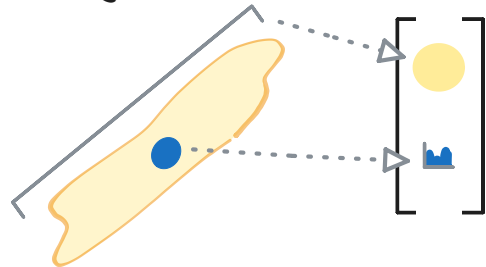
Frameshift -> LOF

Effect of perturbation



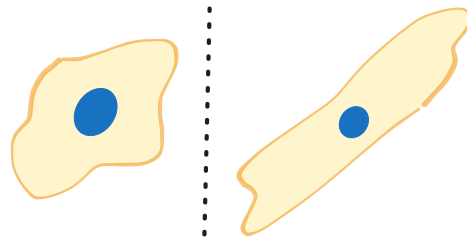
Representations

Projective



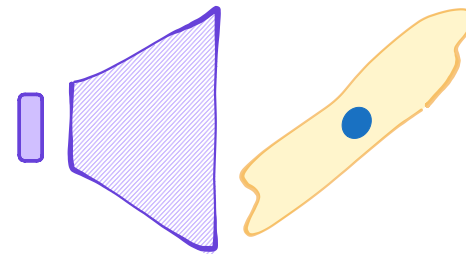
- * interpretability
- * constraints

Contrastive prob.



- * oodness

Gen. modelling



- * gen. modelling
- * implementation

The problem: similarity of embeddings by chromosome arm

	p	q
p		
q		