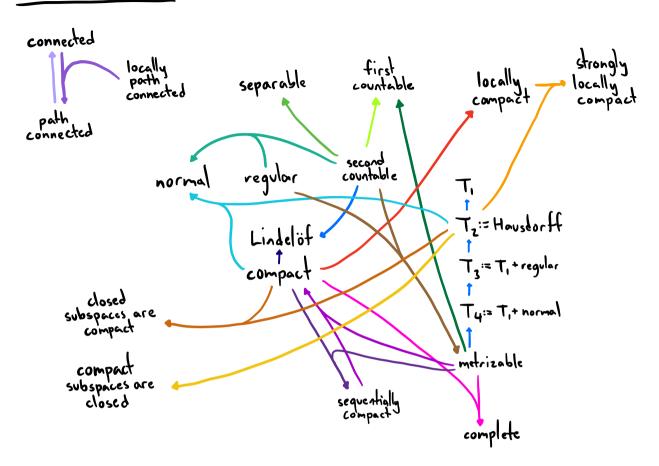
IMPLICATIONS:



TOPOLOGY EXAMPLES:

- ·Rn
- · discrete, trivial
- · Zariski
- · lower limit
- · countable complement, finite complement
- · topologists sine
- · product, box, uniform

INVOLVED THEOREMS:

- If X metrizable, then compact (=> sequentially compact.
- · Metric spaces are T4.
- If X second countable, regular, then X is matrizable.
- If X normal, $A \cap B = \emptyset$, then \exists continuous $f: X \rightarrow [0, \Pi]$ of $f|_{A} = 0$, $f|_{B} = 1$.
- · If X a are all compact, then

 IT X is compact in the product top.
- · An open set in IR" is connected iff it is path-connected