

Rice's Thm.

any non-trivial property P ,
of a TM is undecidable.

non-trivial: P is true for some
but not all TMs.

P is a property
whenever $L(M_1) = L(M_2)$
 $\langle M_1 \rangle \in P$ iff $\langle M_2 \rangle \in P$
property is true for M_1

$P = \{ \langle M \rangle \mid \text{where } M \text{ is a TM} \\ \text{and some condition is true} \}$

