Contact structure:
\[ \xi \in \text{TM plane field} \]
\[ \xi = \ker \alpha, \alpha \in \Omega^1(M) \quad \alpha \wedge d\alpha > 0. \]

Open book:
1. \( L \subset M \) a link
2. \( M \setminus L \xrightarrow{\pi} S^1 \) a fibration,
   \( \pi^{-1}(t) \) Seifert surface for \( L \).
Thm (Giroux)

\[
\{ \text{Contact structures} \} \leftrightarrow \{ \text{Open books} \}
\]

Positive stabilization

- Estimate contact structures invariants coming from open books
- Relation between these invariants and Giroux Torsion?
- Equivalences of Legendrian surgery presentations