

Protocol Racing

Something Something Something

October 9, 2025

Agenda

- 1 A bit of history
- 2 Main
- 3 Wrap-up

- **RFC 791** – *Internet Protocol*
- Written for DARPA in 1981 (before the IETF existed)
- Designed to interconnect different packet-switched networks (ARPANET, SATNET, university nets)
- Created under the assumption that every device would have its own globally unique, routable address
- 32-bit address space — $2^{32} = 4,294,967,296$ possible addresses
- Sounds like a lot... until you remember that “**3 billion devices run Java**”

Key Idea

Takeaway

Keep each slide focused on one idea.

Questions?