

The page at

<https://anders.groupoid.space/foundations/univalent/equiv/index.html>

provides a concise, highly formal reference for the definitions and rules related to equivalences and univalence in HoTT, presented in an Agda-like syntax with sections on formation, introduction, elimination, and computation. It's part of the Anders proof assistant ecosystem (a cubical type checker for HoTT), making it useful for advanced users implementing or verifying these concepts in code. However, it's not the best for learning univalence, as it assumes deep prior knowledge of HoTT, lacks intuitive explanations, examples, or motivational context, and focuses on syntactic precision over pedagogy.

For learning univalence—understanding it as the axiom making equivalences between types equivalent to paths (identities) between them, with implications like function extensionality and structure invariance—better resources include:

- **Homotopy Type Theory: Univalent Foundations of Mathematics (The HoTT Book):**

This is the foundational text, freely available as a PDF. Chapter 2 introduces equivalences and univalence systematically, with informal explanations, examples (e.g., how univalence treats isomorphic structures as equal), and proofs accessible to mathematicians without prior type theory experience. It's comprehensive, covering basics to applications, and designed for self-study without needing proof assistants.

- **Introduction to Univalent Foundations of Mathematics with Agda by Martín Escardó:**

Lecture notes that build from MLTT basics to univalence and its applications (e.g., h-levels, propositional extensionality, structure identity principle). It includes executable Agda code, exercises with solutions, and references to the HoTT Book. More hands-on and pedagogical than the Anders page, suitable if you want to combine learning with formalization, though it assumes some Agda familiarity.

- **Online Courses and Notes:**

- Andrej Bauer's HoTT course on GitHub: Lecture notes and videos blending homotopy theory with type theory, including univalence.
- Jon Sterling's course notes: Focus on dependent types, identity, equivalences, and univalence, with a clean progression for graduate-level learners.

Start with the HoTT Book for conceptual grounding, then Escardó's notes if you want Agda practice. These are more accessible and explanatory than the Anders page, which serves better as a supplementary formal spec once you're comfortable with the ideas.