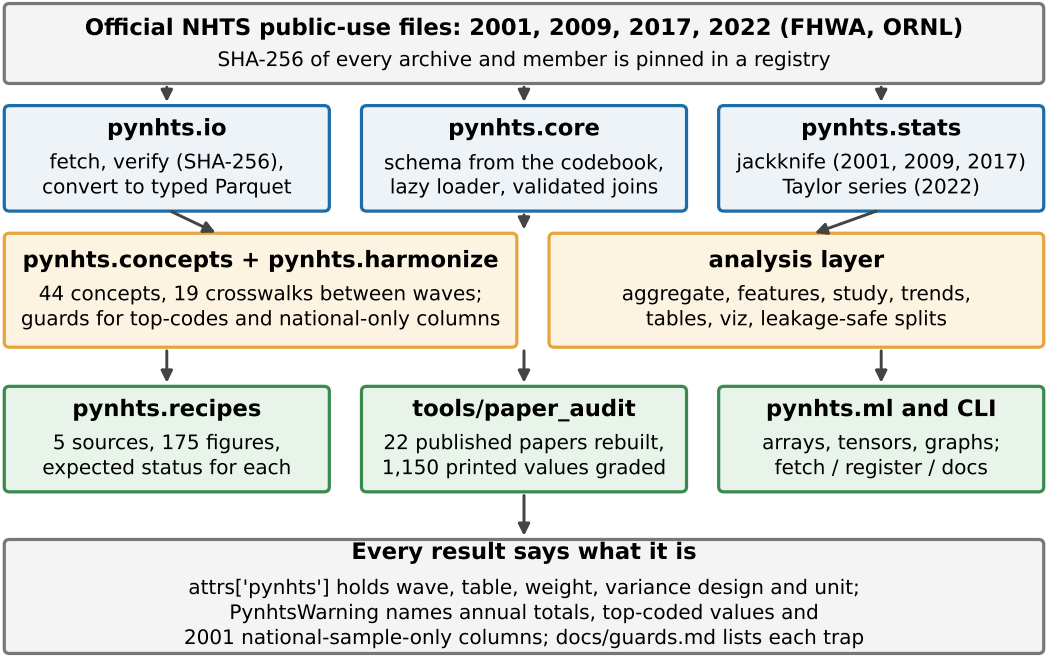

Official NHTS public-use files: 2001, 2009, 2017, 2022 (FHWA, ORNL)
SHA-256 of every archive and member is pinned in a registry
pynhts.io
fetch, verify (SHA-256), convert to typed Parquet
pynhts.core
schema from the codebook, lazy loader, validated joins
pynhts.stats
jackknife (2001, 2009, 2017) Taylor series (2022)
pynhts.concepts + pynhts.harmonize
44 concepts, 19 crosswalks between waves; guards for top-codes and national-only columns
analysis layer
aggregate, features, study, trends, tables, viz, leakage-safe splits
pynhts.recipes
5 sources, 175 figures, expected status for each
tools/paper_audit
22 published papers rebuilt, 1,150 printed values graded
pynhts.ml and CLI
arrays, tensors, graphs; fetch / register / docs
Every result says what it is
attrs['pynhts'] holds wave, table, weight, variance design and unit; PynhtsWarning names annual totals, top-coded values and 2001 national-sample-only columns; docs/guards.md lists each trap