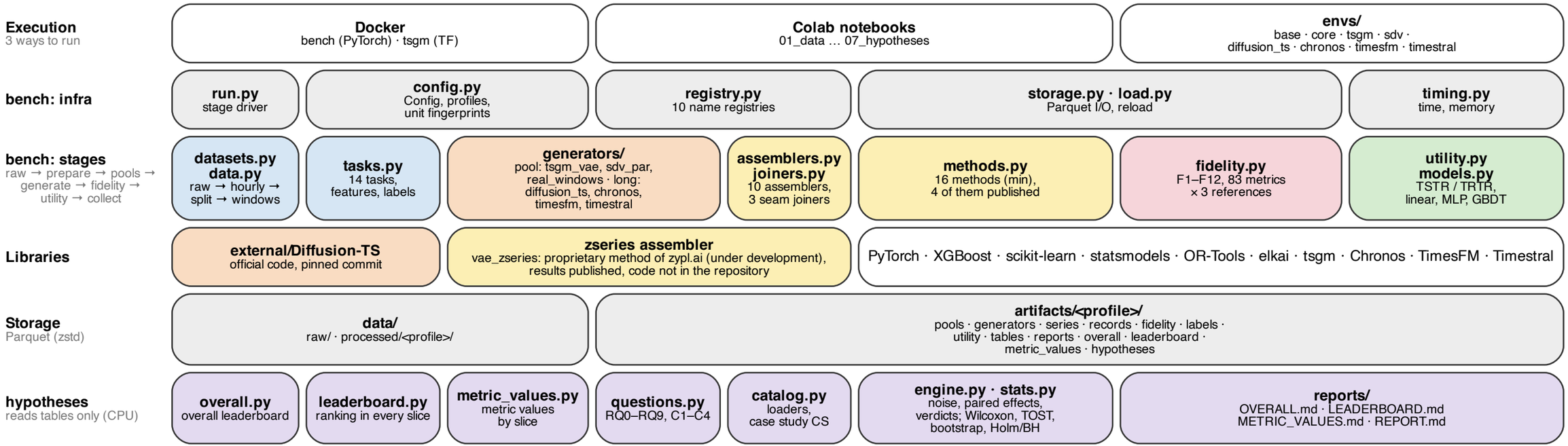

Execution
3 ways to run
Docker
bench (PyTorch) · tsgm (TF)
Colab notebooks
01_data … 07_hypotheses
envs/
base · core · tsgm · sdv ·
diffusion_ts · chronos · timesfm · timestral
bench: infra
run.py
stage driver
config.py
Config, profiles,
unit fingerprints
registry.py
10 name registries
storage.py · load.py
Parquet I/O, reload
timing.py
time, memory
bench: stages
raw → prepare → pools →
generate → fidelity →
utility → collect
datasets.py
data.py
raw → hourly →
split → windows
tasks.py
14 tasks,
features, labels
generators/
pool: tsgm_vae, sdv_par,
real_windows · long:
diffusion_ts, chronos,
timesfm, timestral
assemblers.py
joiners.py
10 assemblers,
3 seam joiners
methods.py
16 methods (min),
4 of them published
fidelity.py
F1–F12, 83 metrics
× 3 references
utility.py
models.py
TSTR / TRTR,
linear, MLP, GBDT
Libraries
external/Diffusion-TS
official code, pinned commit
zseries assembler
vae_zseries: proprietary method of zypl.ai (under development),
results published, code not in the repository
PyTorch · XGBoost · scikit-learn · statsmodels · OR-Tools · elkai · tsgm · Chronos · TimesFM · Timestral
Storage
Parquet (zstd)
data/
raw/ · processed/<profile>/
artifacts/<profile>/
pools · generators · series · records · fidelity · labels ·
utility · tables · reports · overall · leaderboard ·
metric_values · hypotheses
hypotheses
reads tables only (CPU)
overall.py
overall leaderboard
leaderboard.py
ranking in every slice
metric_values.py
metric values
by slice
questions.py
RQ0–RQ9, C1–C4
catalog.py
loaders,
case study CS
engine.py · stats.py
noise, paired effects,
verdicts; Wilcoxon, TOST,
bootstrap, Holm/BH
reports/
OVERALL.md · LEADERBOARD.md
METRIC_VALUES.md · REPORT.md