

Quick Start — Blinder (v2.0)

BlindKit v2.0 — Quick Start (Blinder, ****keys & audit****)

*You manage both roots: private ****BLINDER**** (keys) and shared ****EXPERIMENTER**** (blinded outputs).*

Recommended repos

- BLINDER ROOT (private git): `./study_X_blinder/`
- EXPERIMENTER ROOT (separate git): `./study_X_experimenter/`

One-time init

```
python -m venv venv && source venv/bin/activate
pip install pillow qrcode
```

```
python blindkit_v2_0.py init-dual \
  --blinder-root ./study_X_blinder \
  --experimenter-root ./study_X_experimenter \
  --study-id STUDY_X
```

Register animals (BLINDER)

```
python blindkit_v2_0.py register-animal \
  --blinder-root ./study_X_blinder \
  --animal-id RAT001 --sex F --weight 230g
# repeat per animal
```

Plans (BLINDER; reproducible with YYYYMMDD seeds)

Behavior (2×A, 2×B per animal)

```
python blindkit_v2_0.py plan-behavior \
  --blinder-root ./study_X_blinder \
  --date-seed 20250821 \
  --agents A B
```

Physiology (50/50 cohort)

```
python blindkit_v2_0.py plan-physiology \
  --blinder-root ./study_X_blinder \
  --date-seed 20250821 \
  --agents A B
```

Overlays / Labels (BLINDER)

Behavior (per session)

```
python blindkit_v2_0.py overlay-behavior --blinder-root ./study_X_blinder
# Prompts: Animal ID, SESSION (1-4), SYRINGE_ID
```

Physiology (one per animal)

```
python blindkit_v2_0.py overlay-physiology --blinder-root ./study_X_blinder
```

Viral aliquot (micro■label)

```
python blindkit_v2_0.py overlay-aliquot --blinder-root ./study_X_blinder
```

Handoff & reconciliation

- Hand syringes/aliquots to experimenter. They log receipts.
- Reconcile receipts → mark overlays USED:

```
python blindkit_v2_0.py reconcile-usage \  
--blinder-root ./study_X_blinder \  
--experimenter-root ./study_X_experimenter
```

Anatomy blinding (BLINDER → EXPERIMENTER)

```
python blindkit_v2_0.py blind-anatomy \  
--blinder-root ./study_X_blinder \  
--experimenter-root ./study_X_experimenter \  
--input-root /data/histo_unblinded \  
--allow-missing-index \  
--seal
```

- Crossref with originals → ****BLINDER/configs/anatomy_crossref.json****
- Blinded copies + manifest → ****EXPERIMENTER/anatomy_blinded/**** and ****EXPERIMENTER/configs/anatomy_blinded_manifest.json****
- `--seal` creates ****BLINDER/archives/anatomy_blinded_.zip**** (+ `.sha256`).

Post■hoc packaging for review (BLINDER)

Create a single ZIP with keys + receipts + reports:

```
python blindkit_v2_0.py package-unblinding \  
--blinder-root ./study_X_blinder \  
--experimenter-root ./study_X_experimenter \  
--out ./study_X_unblinding_bundle.zip
```

Anyone can verify integrity:

```
python blindkit_v2_0.py verify-posthoc --bundle ./study_X_unblinding_bundle.zip
```