

## Quick Start — Binder (v2.0)

### BlindKit v2.0 — Quick Start (Binder, \*\*keys & audit\*\*)

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

#### Recommended repos

- BLINDER ROOT (private git): `./study\_X\_binder/`
- 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_binder \  
--experimenter-root ./study_X_experimenter \  
--study-id STUDY_X
```

#### Register animals (BLINDER)

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

#### Plans (BLINDER; reproducible with YYYYMMDD seeds)

##### Behavior (2xA, 2xB per animal)

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

##### Physiology (50/50 cohort)

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

#### Overlays / Labels (BLINDER)

##### Behavior (per session)

```
python blindkit_v2_0.py overlay-behavior --blinder-root ./study_X_binder  
# 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
```