

Comprehensive List of Publicly Available Fruit Datasets

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Image & Video Datasets

1. Fruit Recognition dataset (Zenodo, SCUT) - 44,406 images of 9 fruits for recognition. CC BY 4.0.
2. Fruits-360 (GitHub) - 151,736 scaled images of 220 fruits/vegetables for classification. CC BY-SA 4.0.
3. FruitSeg30 (Mendeley Data) - 1,969 images (30 classes) with segmentation masks. CC BY 4.0.
4. Plum Leaf and Fruit Disease - 3,554 images (healthy/diseased). CC BY 4.0.
5. Synthetic Fruits Dataset - 36 synthetic RGB images (apple, banana, orange). CC BY 4.0.
6. Synthetic Fruit Object Detection (Roboflow) - 6,000 synthetic detection images. CC BY 4.0.
7. COCO-Fruit Subset (Roboflow) - 600 re-labeled COCO fruit detection images. MIT License.
8. MetaFruit (Kaggle) - 4,248 orchard images, 248k labeled fruit instances. Open-source.
9. Date Fruit Detection (Zenodo) - 9,092 images/videos of date fruit bunches. CC BY 4.0.
10. MinneApple (University of Minnesota) - 1,000 high-res orchard images, 41,000 apples labeled. CC BY 4.0.
11. Eating Sound Collection (Kaggle) - 11,141 WAV clips of eating sounds (apple, banana, grape). PDDL.

Tabular/Numerical Datasets

1. USDA FoodData Central - Nutrient composition for fruits (macro/micro nutrients). Public domain.
2. USDA ERS Fruit & Vegetable Prices - Retail price data for 153 fruits/vegetables. CC0.
3. USDA ERS Fruit & Tree Nut Data - Annual fruit/tree nut statistics (production, trade). CC0.
4. FAOSTAT - Global fruit production/trade/yield data. Open FAO license.
5. CORGIS Food Dataset - Nutrient database (~889 foods including fruits). Public domain.
6. Fruit Supply (Our World in Data) - Per capita fruit supply (FAO data). Open license.

Other Datasets

1. Living Optics Hyperspectral Fruit Dataset - 100 images with hyperspectral data, 430k samples. Proprietary.
2. Ajwa vs Medjool Date Dataset (UCI) - 200 images of 2 date varieties + CSV features. CC BY 4.0.
3. Food Freshness E-nose Dataset - Gas sensor array data for fruit ripeness. Open source (varies).
4. Fruit Segmentation (Mask R-CNN) - Annotated segmentation masks for fruit detection. Open-source.
5. Fruit Calorie Estimation - Fruit images with nutrition info. Open license (example).

References / Citations

[1] Zenodo SCUT Fruit Dataset - <https://zenodo.org/record/4287312>

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- [2] Fruits-360 Dataset - <https://github.com/Horea94/Fruit-Images-Dataset>
- [3] FruitSeg30 Dataset - <https://data.mendeley.com/datasets/hb74ynkjb9>
- [4] MinneApple Dataset - <https://rsn.cs.umn.edu/>
- [5] FAOSTAT - <https://www.fao.org/faostat/en/#data>
- [6] USDA FoodData Central - <https://fdc.nal.usda.gov/>
- [7] Kaggle MetaFruit - <https://www.kaggle.com/datasets/jiajiali/metafruit>
- [8] UCI Ajwa vs Medjool Dates - <https://archive.ics.uci.edu/ml/datasets/Ajwa+vs+Medjool+Dates>
- [9] Living Optics Hyperspectral Dataset - <https://huggingface.co/datasets/livingoptics/hyperspectral-fruits>
- [10] USDA ERS Fruit & Vegetable Prices - <https://www.ers.usda.gov/data-products/>