


TFDS now supports the [Croissant](https://mlcommons.org/croissant)  format (<https://mlcommons.org/croissant>)! Read the [documentation](https://www.tensorflow.org/datasets/format_specific_dataset_builders#croissantbuilder) (https://www.tensorflow.org/datasets/format_specific_dataset_builders#croissantbuilder) to know more.

plant_village

- **Description:**

The PlantVillage dataset consists of 54303 healthy and unhealthy leaf images divided into 38 categories by species and disease.

Note: The original dataset is not available from the original source (plantvillage.org), therefore we get the unaugmented dataset from a paper that used that dataset and republished it. Moreover, we dropped images with Background_without_leaves label, because these were not present in the original dataset.

Original paper URL: <https://arxiv.org/abs/1511.08060> (<https://arxiv.org/abs/1511.08060>) Dataset URL: <https://data.mendeley.com/datasets/tywbtsjrjv/1> (<https://data.mendeley.com/datasets/tywbtsjrjv/1>)

- **Additional Documentation:**

[Explore on Papers With Code](https://paperswithcode.com/dataset/plantvillage) ↗ (<https://paperswithcode.com/dataset/plantvillage>)

- **Homepage:** <https://arxiv.org/abs/1511.08060> (<https://arxiv.org/abs/1511.08060>)
- **Source code:** [tfds.datasets.plant_village.Builder](https://github.com/tensorflow/datasets/tree/master/tensorflow_datasets/datasets/plant_village/plant_village_dataset_builder.py) (https://github.com/tensorflow/datasets/tree/master/tensorflow_datasets/datasets/plant_village/plant_village_dataset_builder.py)
- **Versions:**
 - **1.0.2** (default): No release notes.
- **Download size:** 827.82 MiB
- **Dataset size:** 815.37 MiB
- **Auto-cached** ([documentation](https://www.tensorflow.org/datasets/performances#auto-caching) (<https://www.tensorflow.org/datasets/performances#auto-caching>)): No
- **Splits:**

| Split | Examples |
|---------|----------|
| 'train' | 54,303 |

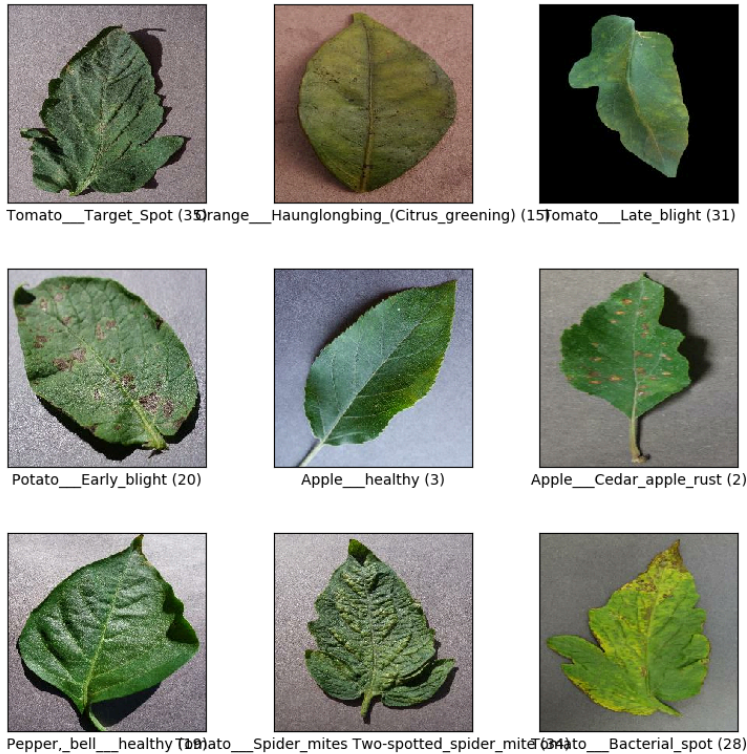
- **Feature structure:**

```
FeaturesDict({
    'image': Image(shape=(None, None, 3), dtype=uint8),
    'image/filename': Text(shape=(), dtype=string),
    'label': ClassLabel(shape=(), dtype=int64, num_classes=38),
})
```

- **Feature documentation:**

| Feature | Class | Shape | Dtype | Description |
|----------------|--------------|-----------------|--------|-------------|
| | FeaturesDict | | | |
| image | Image | (None, None, 3) | uint8 | |
| image/filename | Text | | string | |
| label | ClassLabel | | int64 | |

- **Supervised keys** (See [as_supervised doc](#) (https://www.tensorflow.org/datasets/api_docs/python/tfds/load#args)): (' image' , ' label')
- **Figure** ([tfds.show_examples](#) (https://www.tensorflow.org/datasets/api_docs/python/tfds/visualization/show_examples)):



- **Examples** ([tfds.as_dataframe](#)

(https://www.tensorflow.org/datasets/api_docs/python/tfds/as_dataframe):

[Display examples...](#)

- **Citation:**

```
@article{DBLP:journals/corr/HughesS15,
  author    = {David P. Hughes and
               Marcel Salath{\`{e}} },
  title     = {An open access repository of images on plant health to enable the
               development of mobile disease diagnostics through machine
               learning and crowdsourcing},
  journal   = {CoRR},
  volume    = {abs/1511.08060},
  year      = {2015},
  url       = {http://arxiv.org/abs/1511.08060},
  archivePrefix = {arXiv},
```

```
eprint      = {1511.08060},  
timestamp   = {Mon, 13 Aug 2018 16:48:21 +0200},  
biburl      = {https://dblp.org/rec/bib/journals/corr/HughesS15},  
bibsource   = {dblp computer science bibliography, https://dblp.org}  
}
```

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Last updated 2024-06-01 UTC.