Data Download

The BDD100K data and annotations can be obtained at https://dl.cv.ethz.ch/bdd100k/data/. By downloading the data, you agree to the BDD100K license.

Videos

100K video clips

Size	1.8TB
md5	253d9a2f9d89d2b09d8d93f397aecdd7

Video Torrent

Torrent for the 100K video clips

Video Parts

The 100K videos broken into 100 parts for easy downloading.

Info

The GPS/IMU information recorded along with the videos

Size	3.9GB
md5	043811ff34b2fca6d50f37d263a65c93

100K Images

The images in this package are the frames at the 10th second in the videos. The split of train, validation, and test sets are the same with the whole video set. They are used for object detection, drivable area, lane marking.

Size	5.3GB
md5	5a0359c86a0b8713adab1eee9a3041cb

```
- bdd100k
    - images
        - 100k
            - train
            - val
            - test
```

10K Images

There are 10K images in this package for for semantic segmentation, instance segmentation and panoptic segmentation. Due to some legacy reasons, not all the images here have corresponding videos. So it is not a subset of the 100K images, even though there is a significant overlap.

Size	1.1GB
md5	08f26aecceda982568063d3d5873378e

```
- bdd100k
    - images
        - 10k
            - train
            - val
            - test
```

Labels

Annotations of road object detection in JSON format released in 2018. The video attributes, including `weather`, `scene`, and `timeofday`, are also stored in the downloaded json files. We revised the detection annotations in 2020 and released them

as Detection 2020 Labels in the list. You are recommended to use the new labels. This detection annotation set is kept for comparison with legacy results.

Size	107MB
md5	e21be3e7d6a07ee439faf61e769667e4

Drivable Area

Masks, colormaps, RLEs, and original json files for drivable area. The mask format is explained at: Semantic Segmentation Format.

Size	514MB
md5	0abc320461200b1d7916f82fdcd64a96

```
- bdd100k
    - labels
        - drivable
            - masks
                - train
                - val
            - colormaps
                - train
                - val
            - polygons
                - drivable_train.json
                - drivable_val.json
            - rles
                - drivable_train.json
                - drivable_val.json
```

Lane Marking

Masks, colormaps and original json files for lane marking. The mask format is explained at: Lane Marking Format.

Size	434MB
md5	dfe74f9ed6800765a0047414d620a186

```
- bdd100k
    - labels
        - lane
            - masks
                - train
                - val
            - colormaps
                - train
                - val
            - polygons
                - lane_train.json
                - lane_val.json
```

Semantic Segmentation

Masks, colormaps, RLEs, and original json files for semantic segmentation. The mask format is explained at: Semantic Segmentation Format.

Size	419MB
md5	9a2968dde3345eeb689cffb1e26f9c78

```
- bdd100k
    - labels
        - sem_seg
            - masks
                - train
                - val
            - colormaps
                - train
                - val
            - polygons
                - sem_seg_train.json
                - sem_seg_val.json
            - rles
                - sem_seg_train.json
                - sem_seg_val.json
```

Instance Segmentation

Masks, colormaps, RLEs, and original json files for instance segmentation. The bitmask format is explained at: Instance Segmentation Format.

Size	111MB

md5	651b41f229d7327d8c4af97772de4390

```
- bdd100k
    - labels
        - ins_seg
            - bitmasks
                - train
                - val
            - colormaps
                - train
                - val
            - polygons
                - ins_seg_train.json
                - ins_seg_val.json
            - rles
                - ins_seg_train.json
                - ins_seg_val.json
```

Panoptic Segmentation

Bitmasks, colormaps and original json files for panoptic segmentation. The bitmask format is explained at: Panoptic Segmentation Format.

Size	363MB
md5	fc37642ae024ffb223182ef01238d007

```
- bdd100k
    - labels
        - pan_seg
            - bitmasks
                - train
                - val
            - colormaps
                - train
                - val
            - polygons
                - pan_seg_train.json
                - pan_seg_val.json
```

MOT 2020 Labels

Multi-object bounding box tracking training and validation labels released in 2020. This is a subset of the 100K videos, but the videos are resampled to 5Hz from 30Hz. The labels are in Scalabel Format. The same object in each video has the same label id but objects across videos are always distinct even if they have the same id.

Size	115MB
md5	6be40e0ca56a83ddeba2ed6bff50f9e6

```
- bdd100k
    - labels
        - box_track_20
            - train
            - val
```

MOT 2020 Images

Multi-object bounding box tracking videos in frames released in 2020. The videos are a subset of the 100K videos, but they are resampled to 5Hz from 30Hz.

```
- bdd100k
    - images
        - track
            - train
            - val
            - test
```

Detection 2020 Labels

Multi-object detection validation and testing labels released in 2020. This is for the same set of images in the previous key frame annotation. However, this annotation went through the additional quality check. The original detection set is deprecated.

Size	53MB
md5	b86a3e1b7edbcad421b7dad2b3987c94

```
- bdd100k
    - labels
        - det_20
            - det_train.json
            - det_val.json
```

MOTS 2020 Labels

Multi-object tracking and segmentation training and validation labels released in 2020
The bitmask format is explained at: Instance Segmentation Format.

Size	452MB
md5	8822a8b72c2c6719f4573bc4d7077020

```
- bdd100k
    - labels
        - seg_track_20
            - bitmasks
                - train
                - val
            - colormaps
                - train
                - val
            - polygons
                - train
                - val
            - rles
                - train
                - val
```

MOTS 2020 Images

Multi-object tracking and segmentation videos in frames released in 2020. This is a subset of MOT 2020 Images.

Size	5.4GB
md5	7c52a52f3c9cc880c91b264870a1d4bb

```
- bdd100k
    - images
        - seg_track_20
            - train
            - val
            - test
```

Pose Estimation Labels

Pose estimation training and validation labels.

Size	17MB
md5	2e8738d3fd0ac432e64d9a72df2f7aa4

```
- bdd100k
    - labels
        - pose_21
            - pose_train.json
            - pose_val.json
```