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# Comp Viz

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## 1.1 comp\_viz package

### 1.1.1 Subpackages

**comp\_viz.object\_detection package**

**Submodules**

**comp\_viz.object\_detection.model module**

**class** comp\_viz.object\_detection.model.**Model**(*network\_name*)

Bases: object

A naive Bayesian spam filter

**get\_classes()**

**get\_image\_prediction**(*fname*, *nms*=0)

**get\_prediction**(*fname*, *nms*=0.5) → dict

**list\_classes()**

**predict**(*fname*, *nms*) → tuple

**reset\_classes()**

**set\_classes**(*object\_classes*: list)

**show\_image\_prediction**(*fname*, *nms*=0.5)

**Module contents**

**comp\_viz.utils package**

**Submodules**

**comp\_viz.utils.toolbox module**

Binary tree traversal. Routines ——— `inorder_traverse(tree: SupportedTreeType, recursive: bool)`

Perform in-order traversal.

```
class comp_viz.utils.toolbox.Models
    Bases: object
    get_tasks()
    list_tasks()

class comp_viz.utils.toolbox.ObjectDetection
    Bases: object
    format_object_classes() → list
    get_network_resolution()
    get_networks()
    get_pred_bboxes_image(bboxes: list, labels=[], class_names=[], scores=[])
    list_networks()
    resize_bbox(orig: tuple, dest: tuple)
    show_pred_bboxes_image(bboxes: list, labels=[], class_names=[], scores=[])

class comp_viz.utils.toolbox.Tools
    Bases: object
    exists() → bool
    filename_show_image()
    get_mxnet_image()
    save_image(path: str)
    show_image()
    verify_exists
```

## Module contents

### 1.1.2 Submodules

### 1.1.3 comp\_viz.config module

```
class comp_viz.config.CompViz
    Bases: object
    version = '1.0.0'

class comp_viz.config.Models
    Bases: object
    tasks = ['Object Detection']
```

```
class comp_viz.config.ObjectDetection
```

```
    Bases: object
```

```
    networks = {'center_net_resnet101_v1b_dcnv2_coco': {'resolution': 416},  
                'faster_rcnn_fpn_resnet50_v1b_coco': {'resolution': 416},  
                'faster_rcnn_fpn_syncbn_resnest269_coco': {'resolution': 416},  
                'ssd_512_resnet50_v1_coco': {'resolution': 416}, 'yolo3_darknet53_coco':  
                {'resolution': 416}, 'yolo3_mobilenet1.0_coco': {'resolution': 416}}
```

#### 1.1.4 Module contents





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