

# tf.keras.applications.inception\_v3.decode\_predictions

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### Aliases:

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- `tf.keras.applications.inception_v3.decode_predictions`
- `tf.keras.applications.mobilenet.decode_predictions`
- `tf.keras.applications.resnet50.decode_predictions`
- `tf.keras.applications.vgg16.decode_predictions`
- `tf.keras.applications.vgg19.decode_predictions`
- `tf.keras.applications.xception.decode_predictions`

```
decode_predictions(  
    preds,  
    top=5  
)
```

Defined in [tensorflow/python/keras/\\_impl/keras/applications/imagenet\\_utils.py](#).

Decodes the prediction of an ImageNet model.

## Arguments:

- `preds` : Numpy tensor encoding a batch of predictions.
- `top` : integer, how many top-guesses to return.

## Returns:

A list of lists of top class prediction tuples `(class_name, class_description, score)`. One list of tuples per sample in batch input.

## Raises:

- `ValueError` : in case of invalid shape of the `pred` array (must be 2D).

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