

ICV PR0ject



A A A

An Extensive Study on Image
Captioning and proposal for new
architecture*



A cupcake made by
Utkarsh and Kerim

Start →

Image
Captioning,
what is it,
why is it,
how is it.



Main Methods

Let's go! 



Related work

What are the main proposed
methods and how are they
implemented

- By Marc Tanti and Albert Gatt.
- By Andrej Karpathy.
- Show and Tell: A Neural Image Caption Generator.
- Rich Image Captioning in the Wild

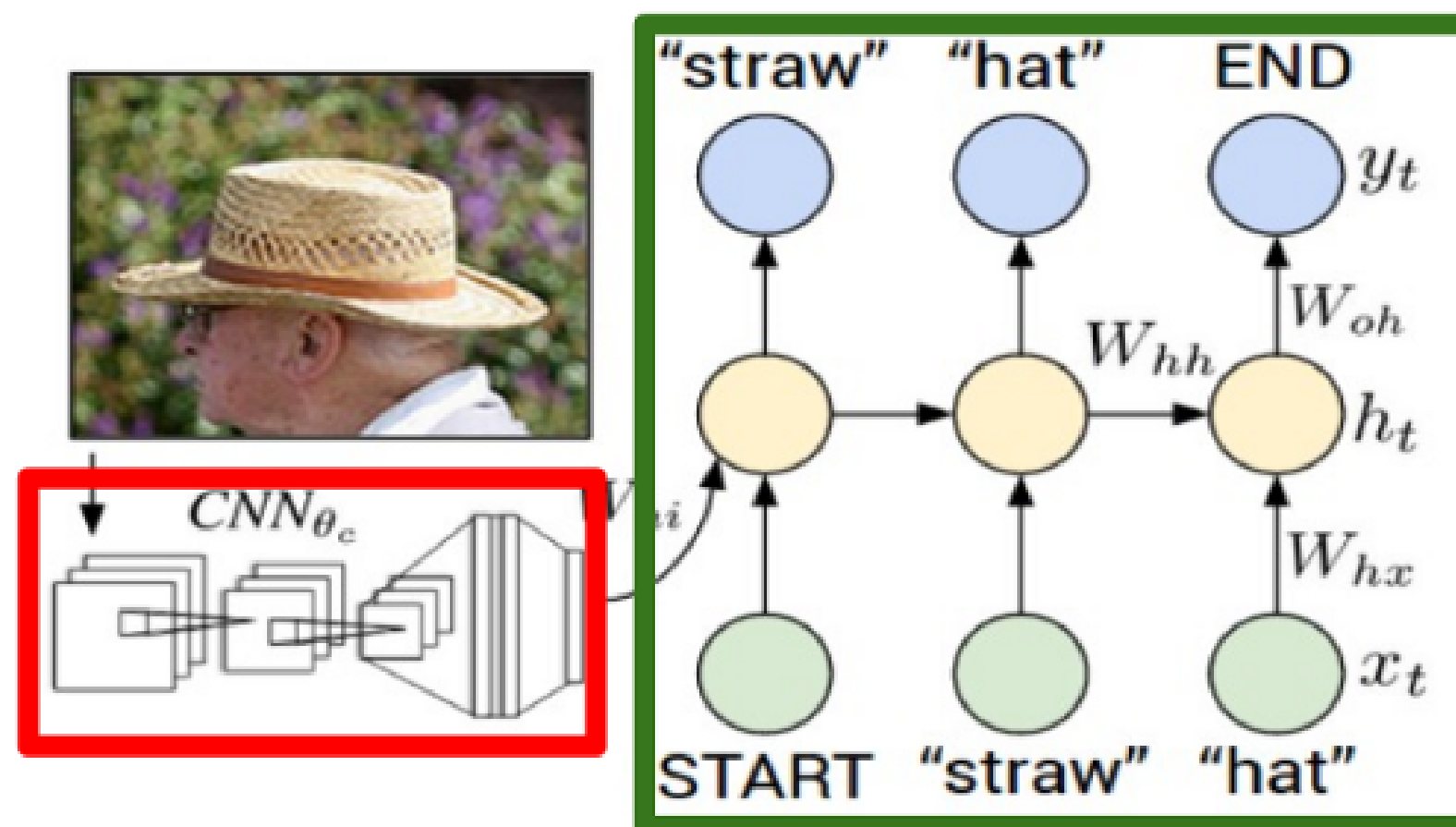
Underlying
logic is
mainly
encoder
and
decoder.

Next →



Describing images

Recurrent Neural Network



Convolutional Neural Network

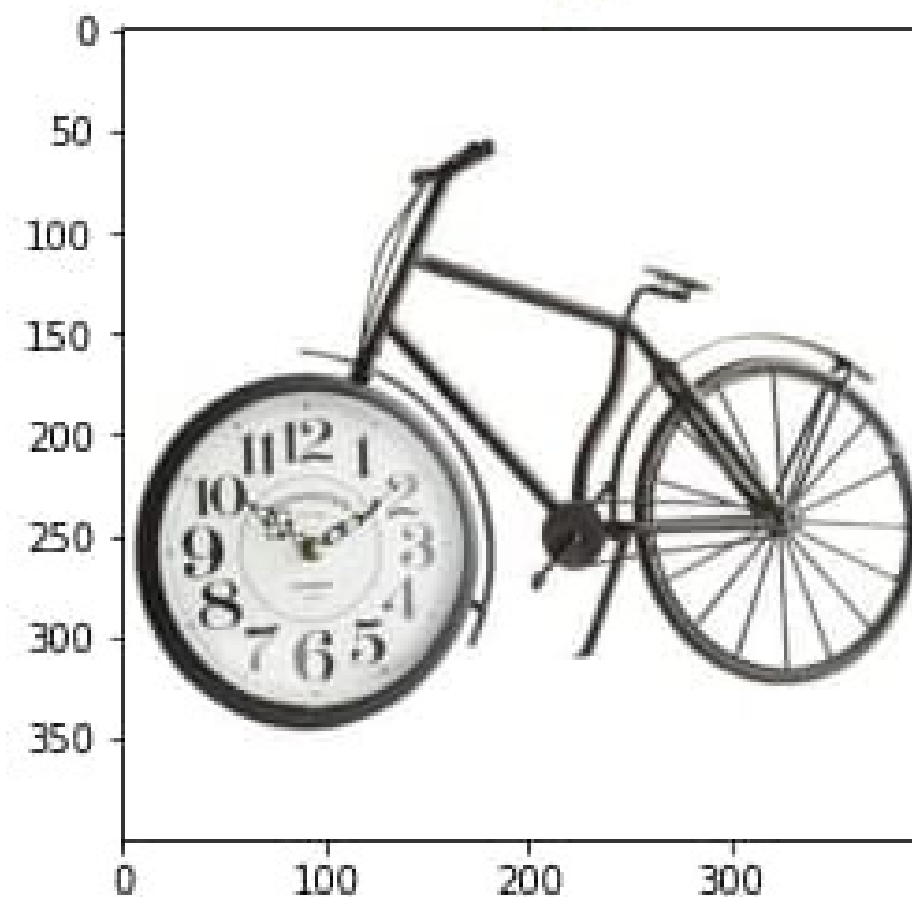


Datasets

COCO
Flickr8k



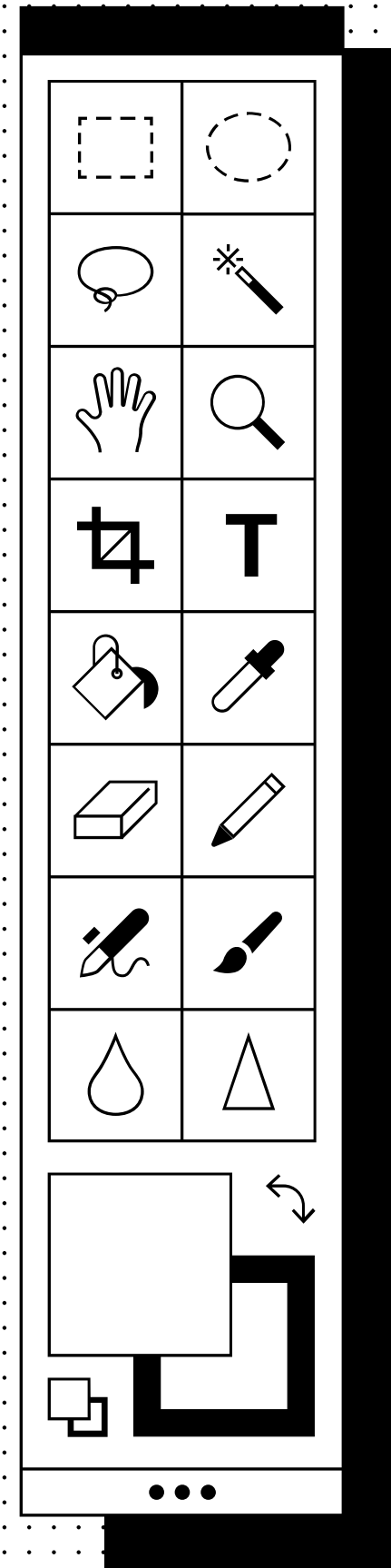
A bicycle replica with a clock as the front wheel.
The bike has a clock as a tire.
A black metal bicycle with a clock inside the front wheel.
A bicycle figurine in which the front wheel is replaced with a
A clock with the appearance of the wheel of a bicycle



$$\text{Loss} = - \sum_{i=1}^{\text{output size}} y_i \cdot \log \hat{y}_i$$

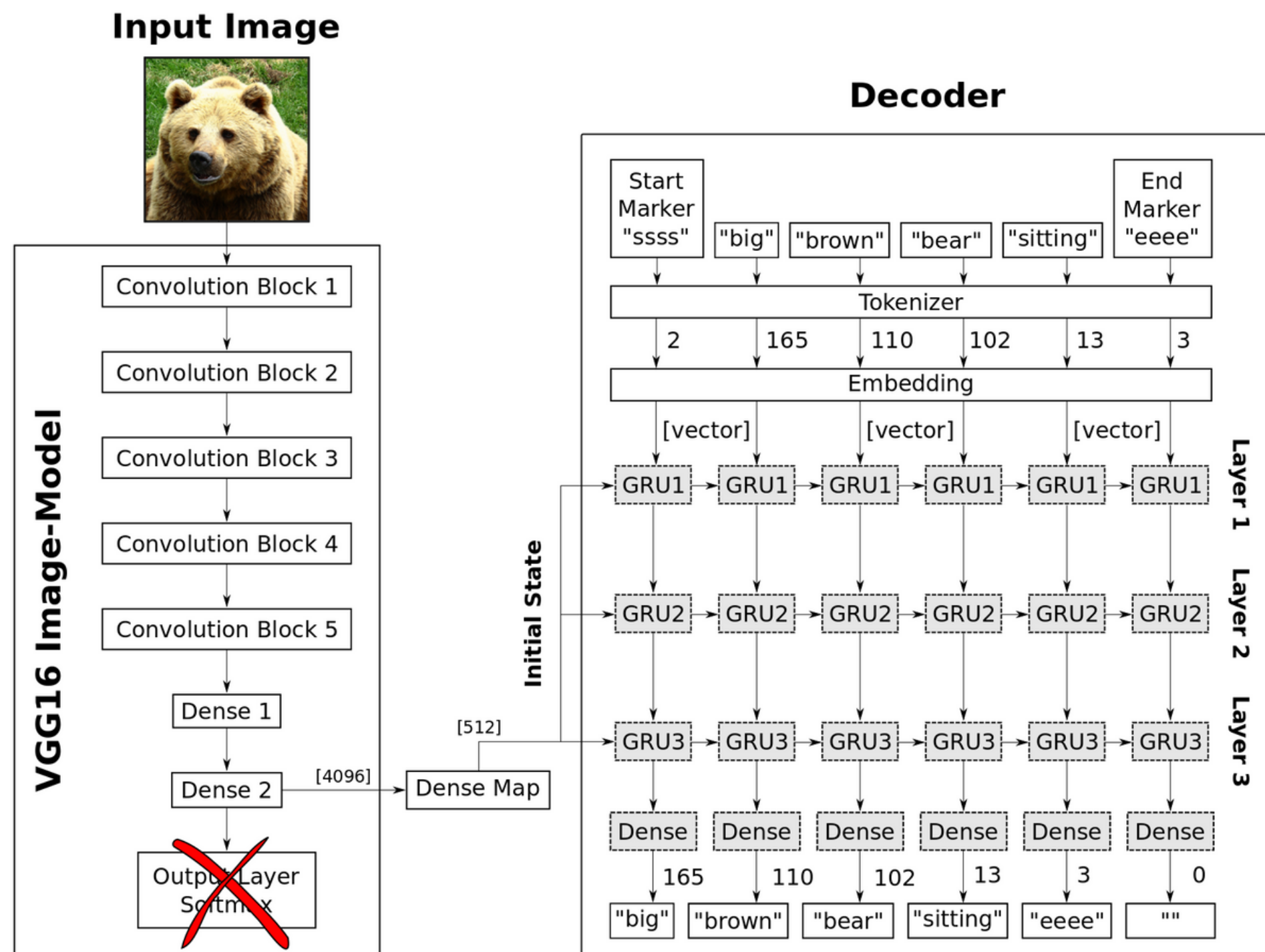
Loss Functions and Metrics

BLEU
SPICE
CrossEntropy
Sparse Cross Entropy





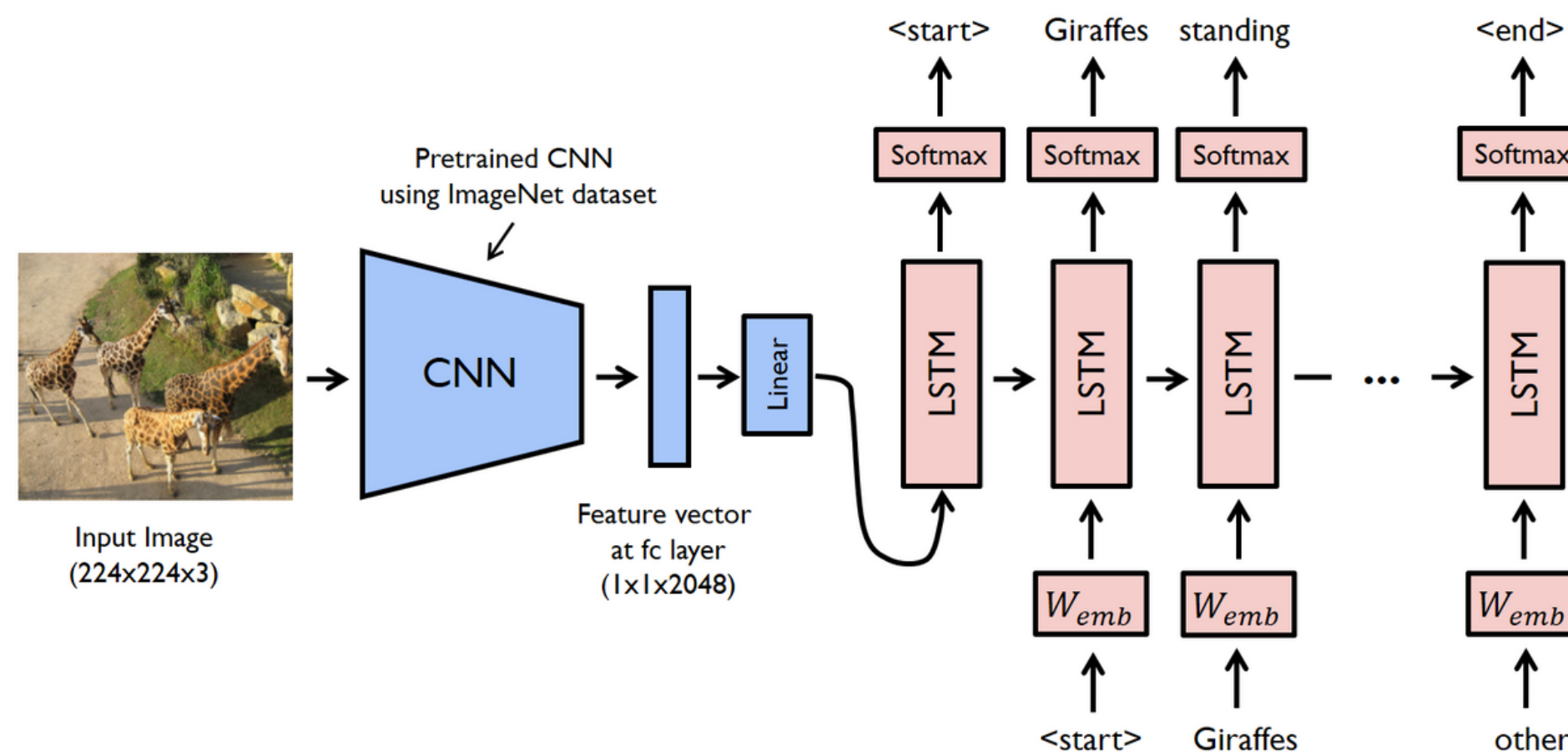
Implemented Models





Our Model

Inspiration



Results

BRIGHTNESS / CONTRAST

BRIGHTNESS

0

CONTRAST

0

OK

CANCEL

Share your
cupcake photos at
our next party.

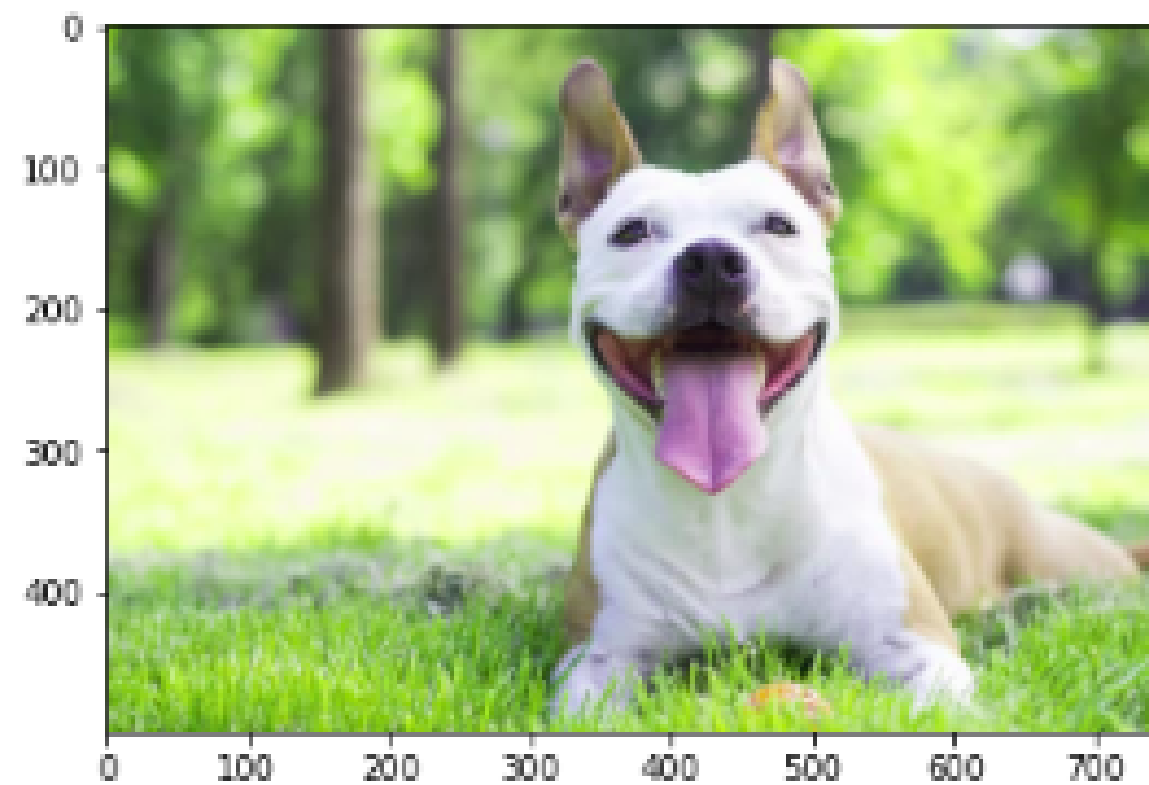
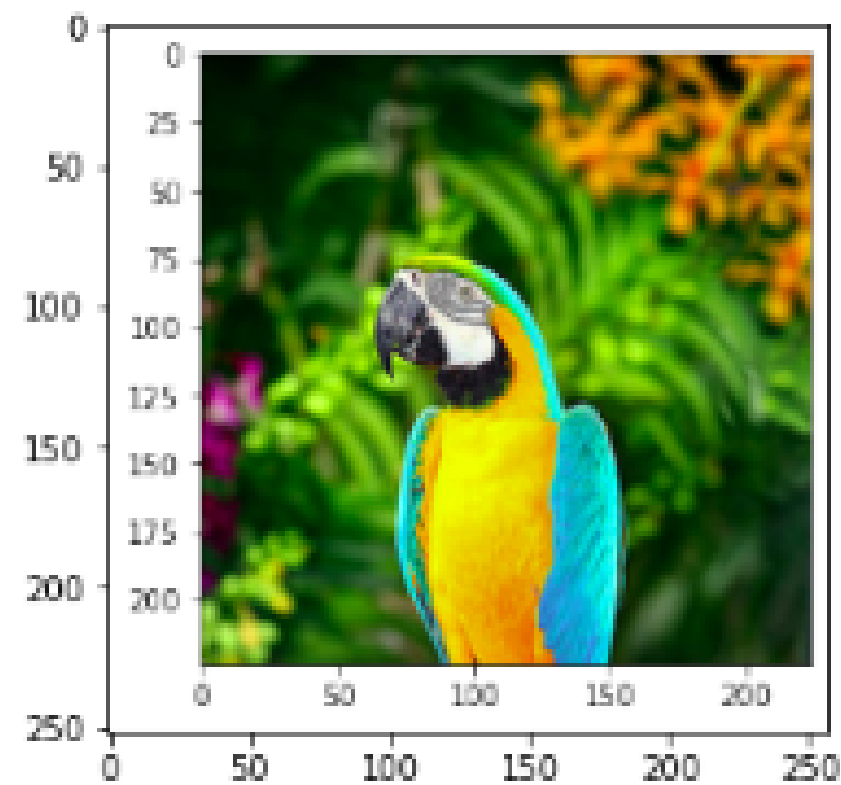
a small bird sitting on top of a wooden table .

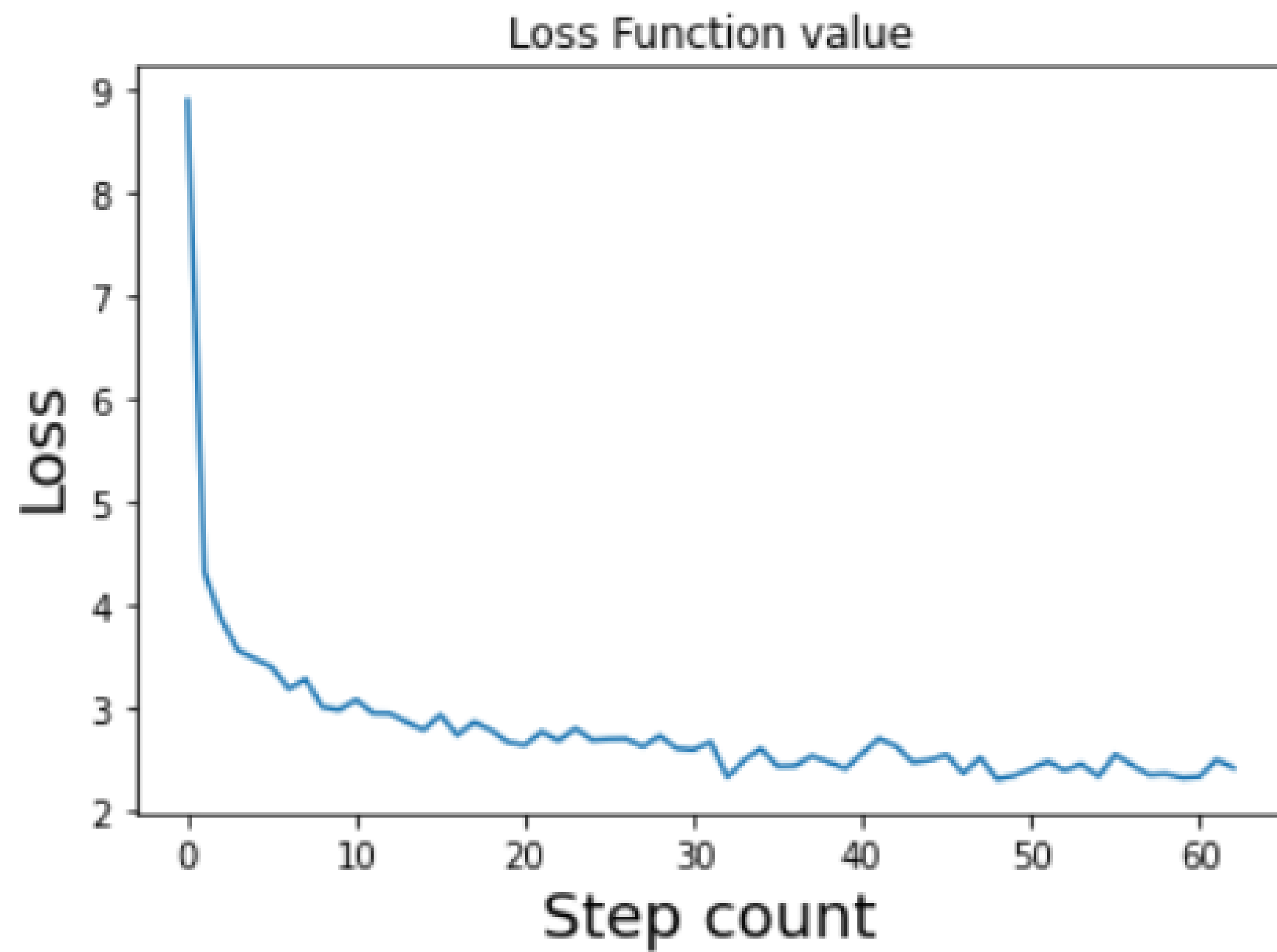


a man in a suit and tie standing in a room .



a small yellow bird sitting on top of a tree . a dog is laying on a green blanket .

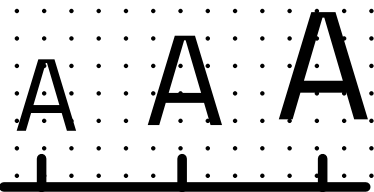




Party!!!!



Analysis, Observations, Problems



LAYERS

NORMAL

▼

OPACITY

100%

▼

LOCK: FILL

100%

▼

LAYER 1 COPY

T

TEXT

LAYER 1

SMART OBJECT

BACKGROUND

fx



Download this background and use it in the online call with your friends for a complete gaming experience.

Kindly delete this note after editing this page.

What Future
Holds

Thank You

