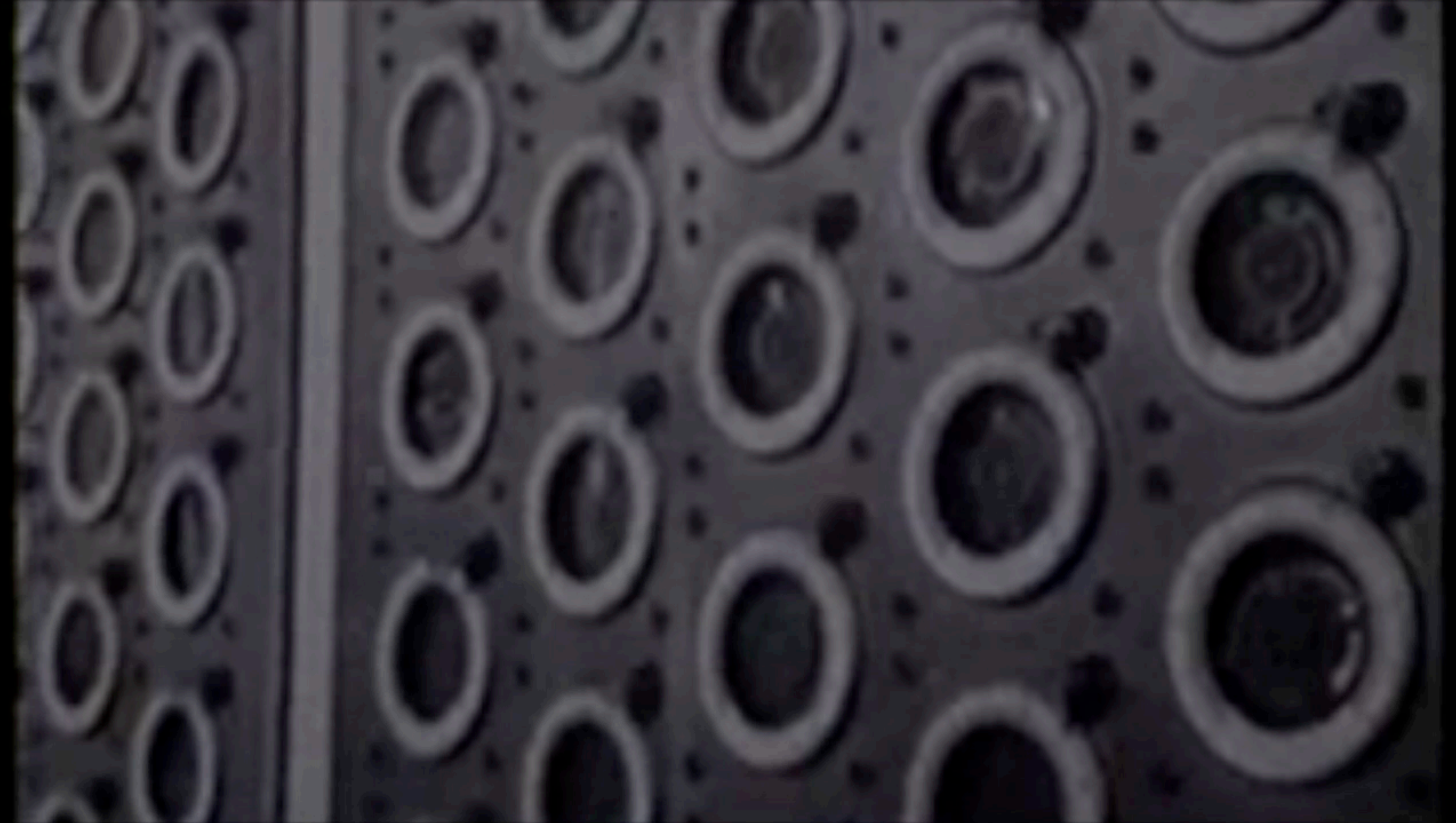


Interacting with Artificial Intelligence

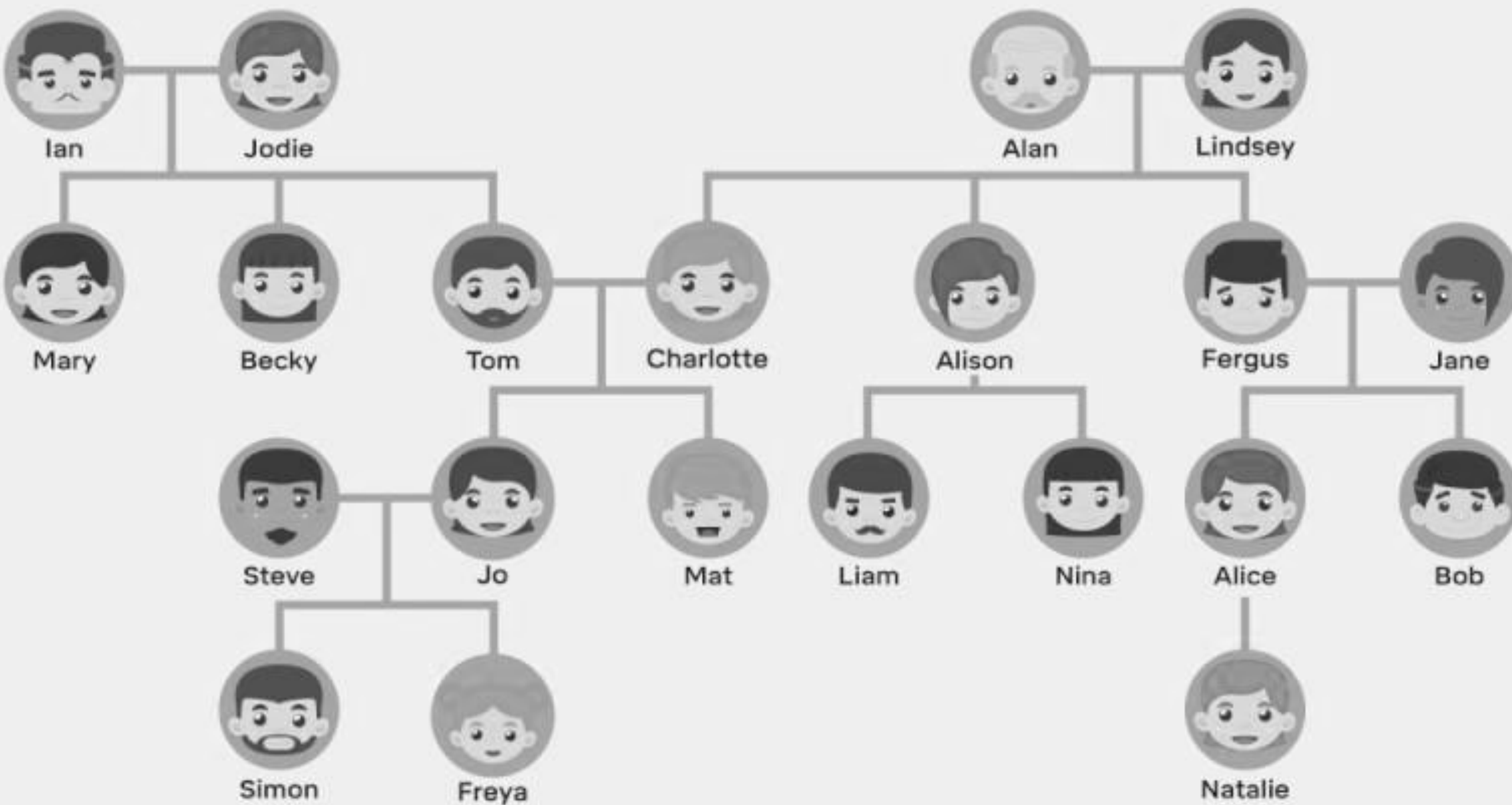
University of Oslo, 2021



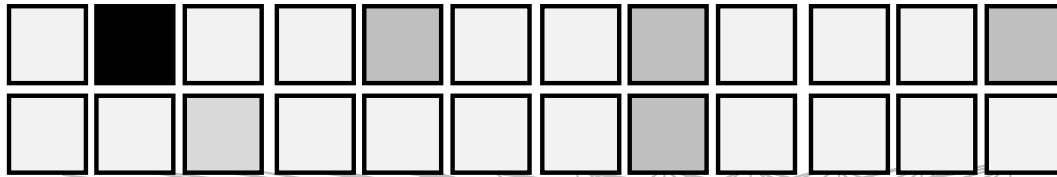








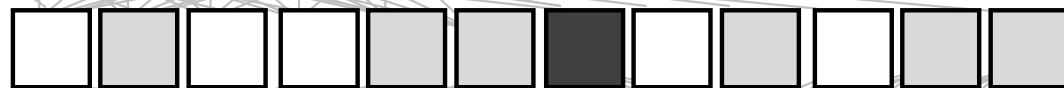
Gruppe med nevroner som representerer slektning



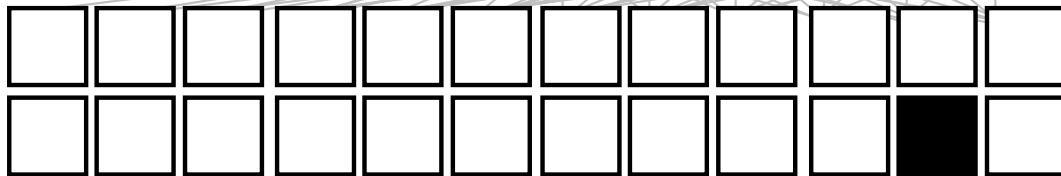
Skjult gruppe med nevroner 3



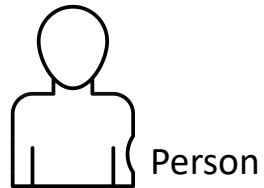
Skjult gruppe med nevroner 2



Skjult gruppe med nevroner 1



Gruppe med nevroner som representerer person og familieforhold





original



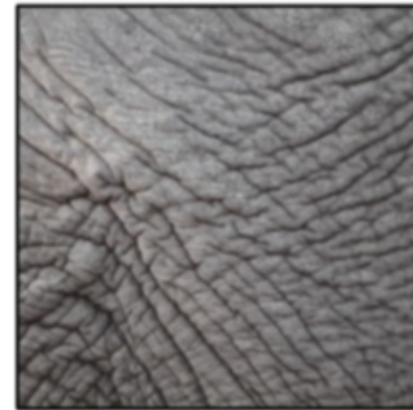
greyscale



silhouette

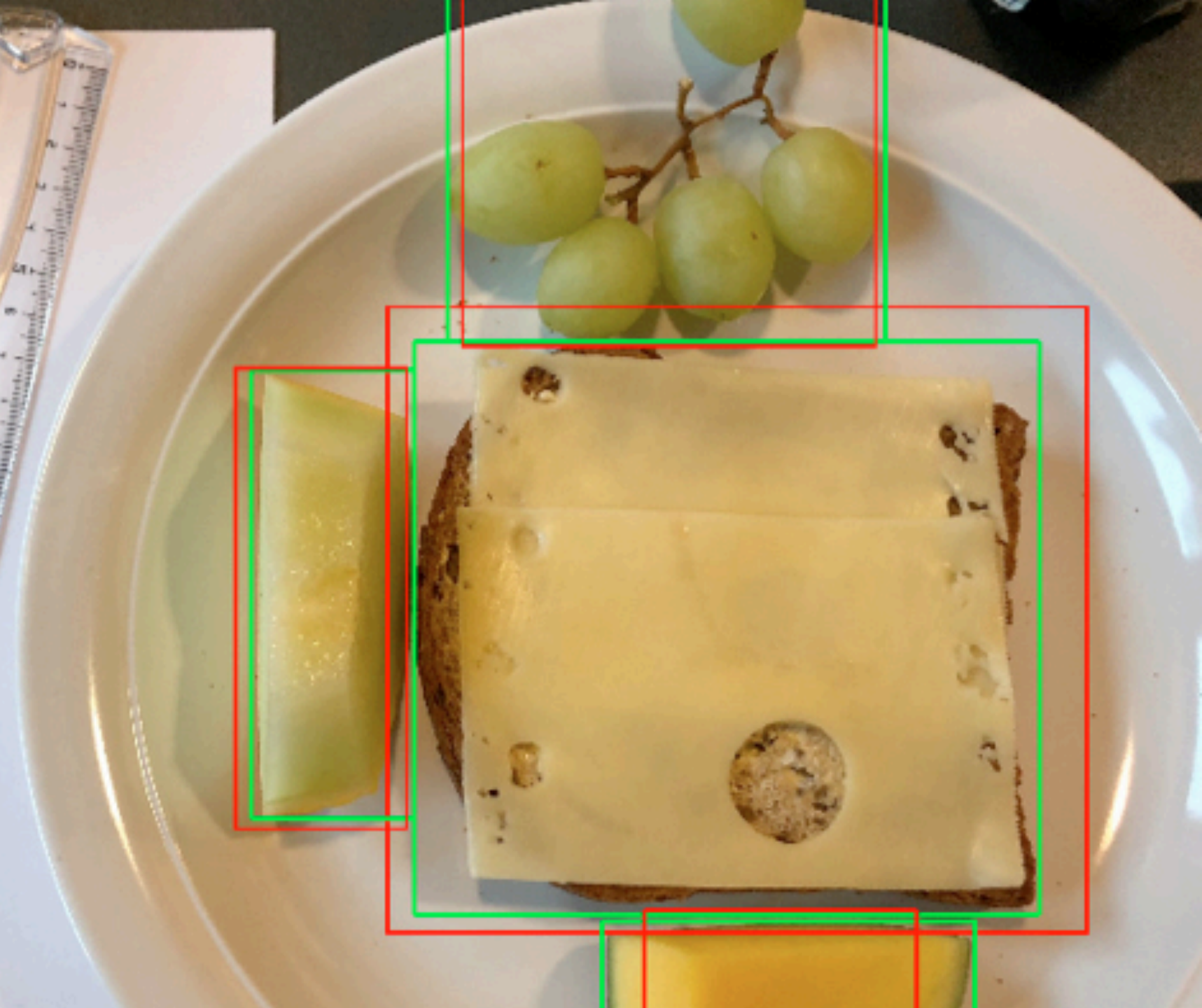


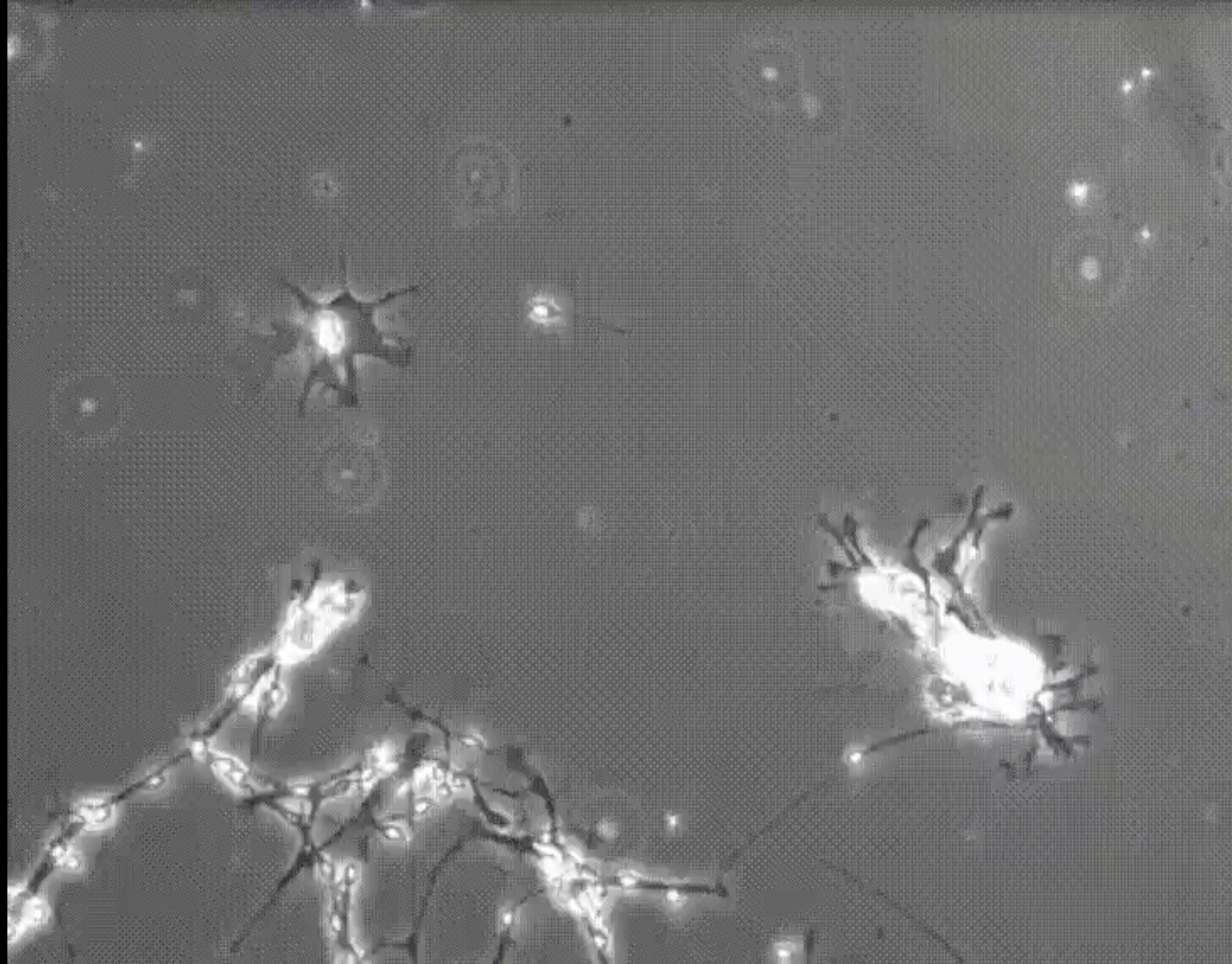
edges

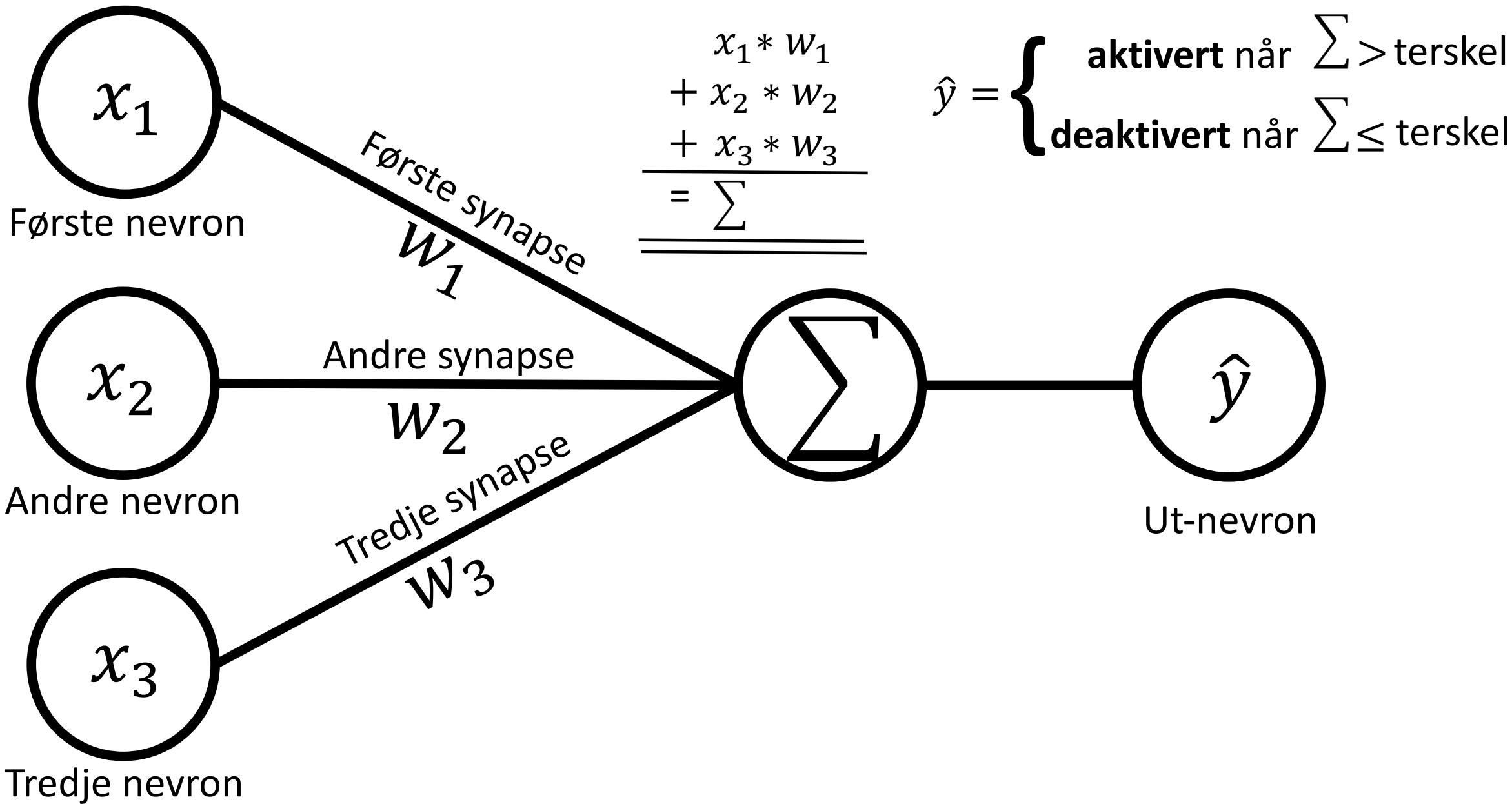


texture

Bread 5 uting 38g
msmer 44g
n ost 64g
Panna
melon - 52g
mango 40g
Druer 45g





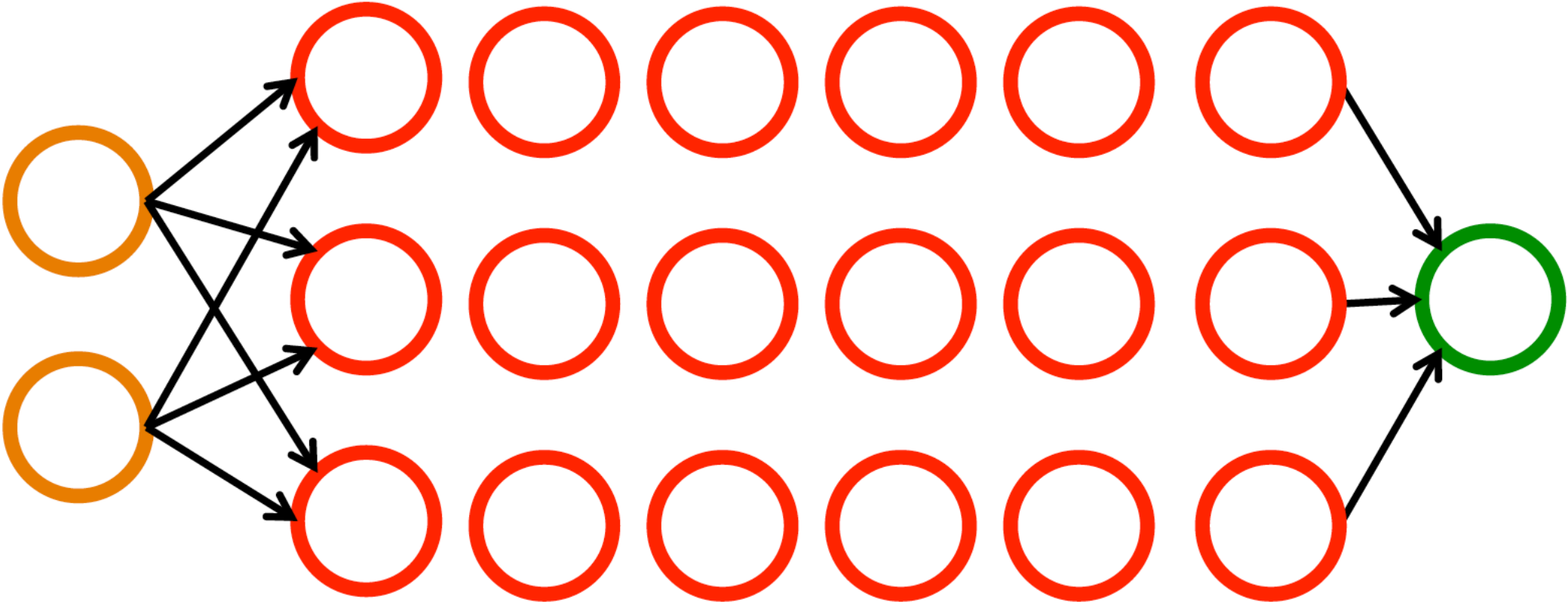


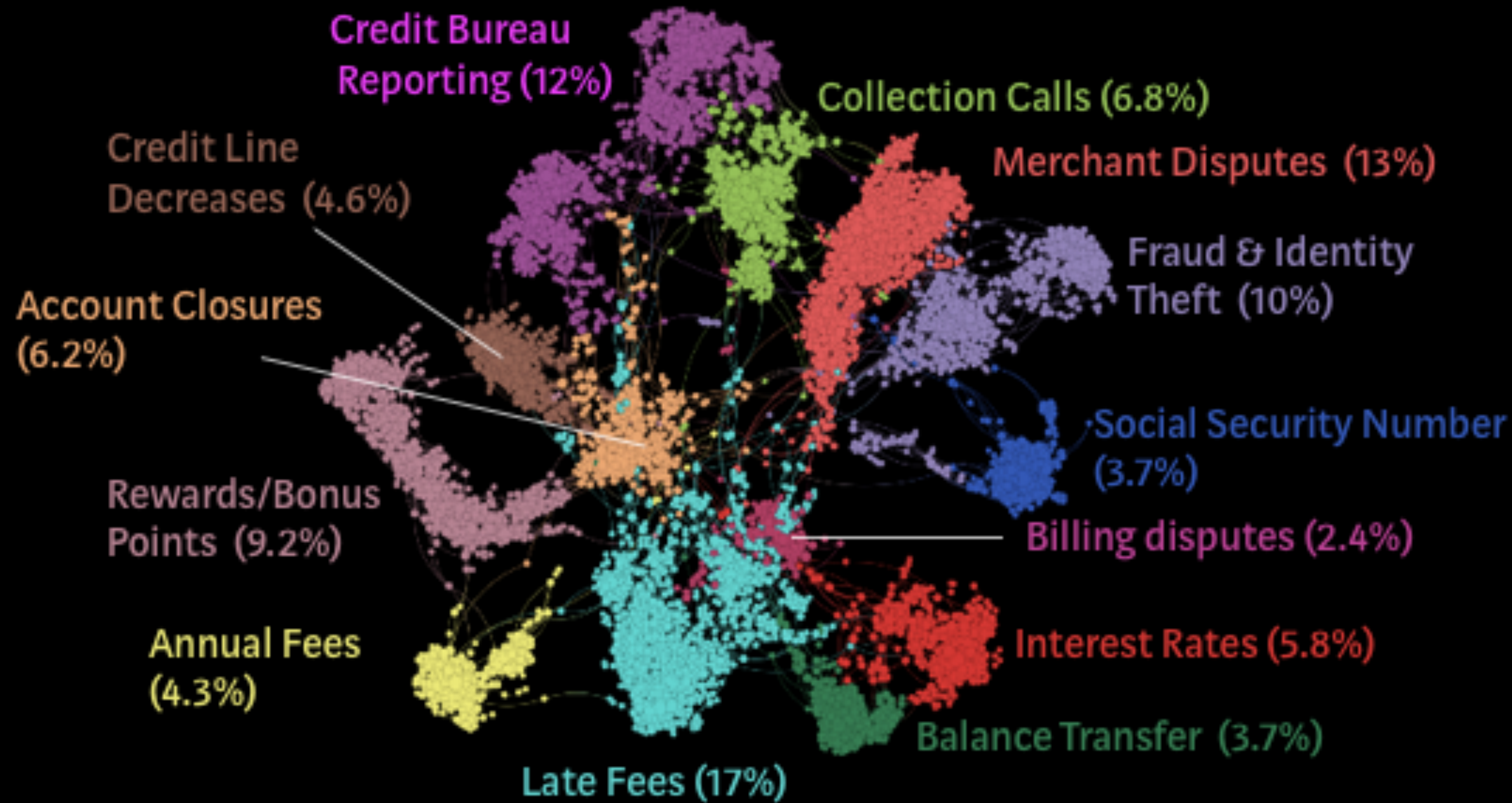
**Input Layer
(X)**

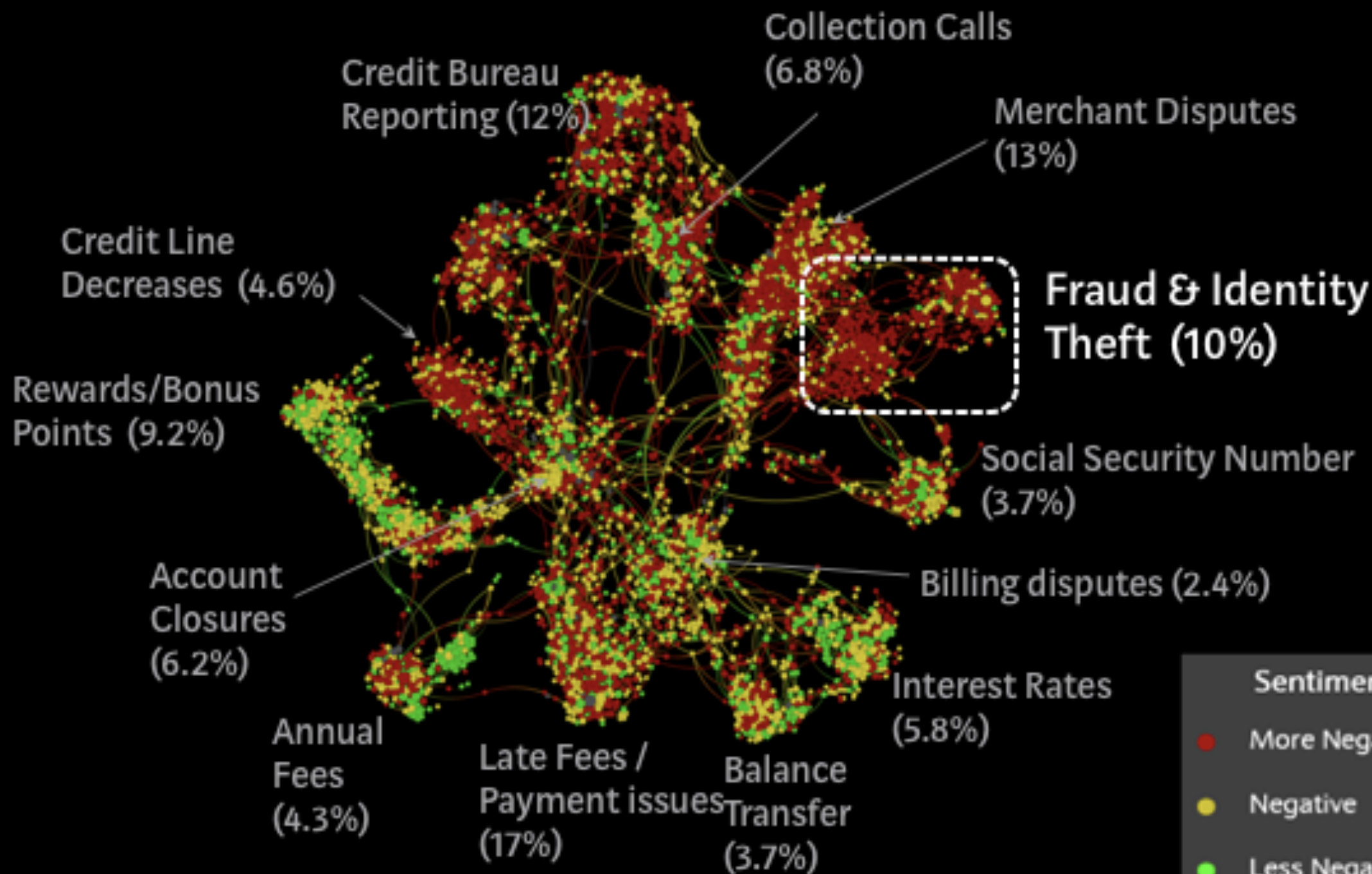
**Hidden Layers
(H)**

**Output Layer
(Y)**

**Deep Neural Networks
Deep Learning**

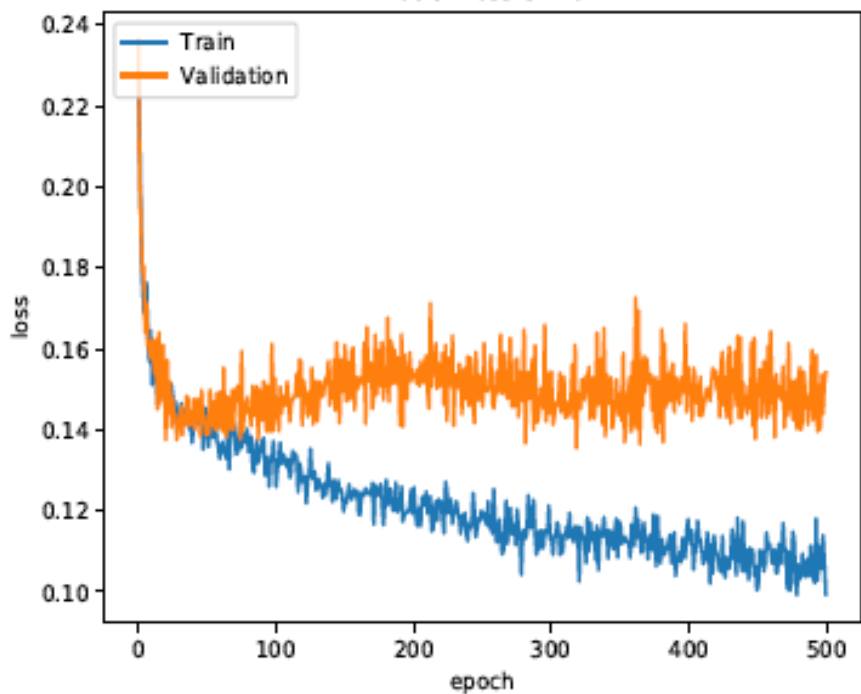




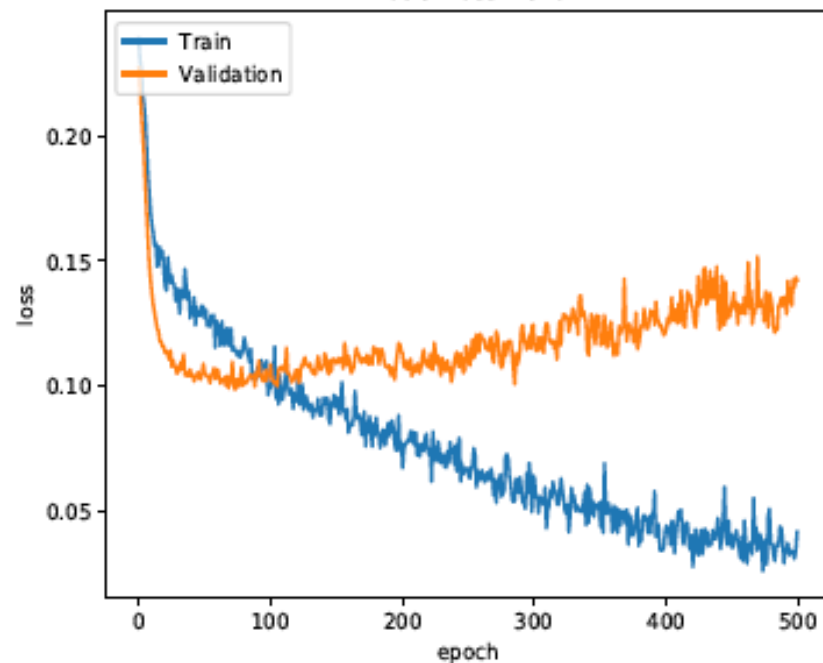


Sentiment Summary	
More Negative	48%
Negative	35%
Less Negative	15%

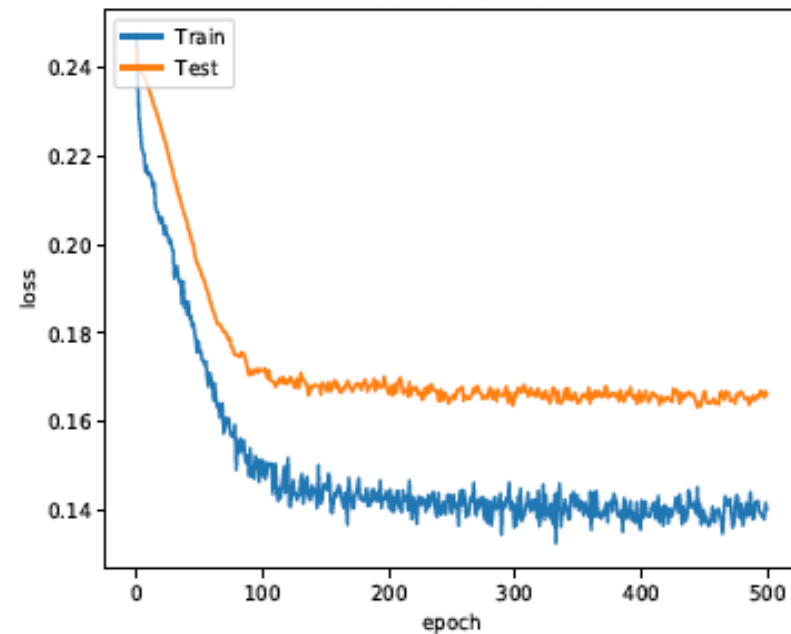
Model Loss SELU



Model Loss ReLU



Model Loss ELU

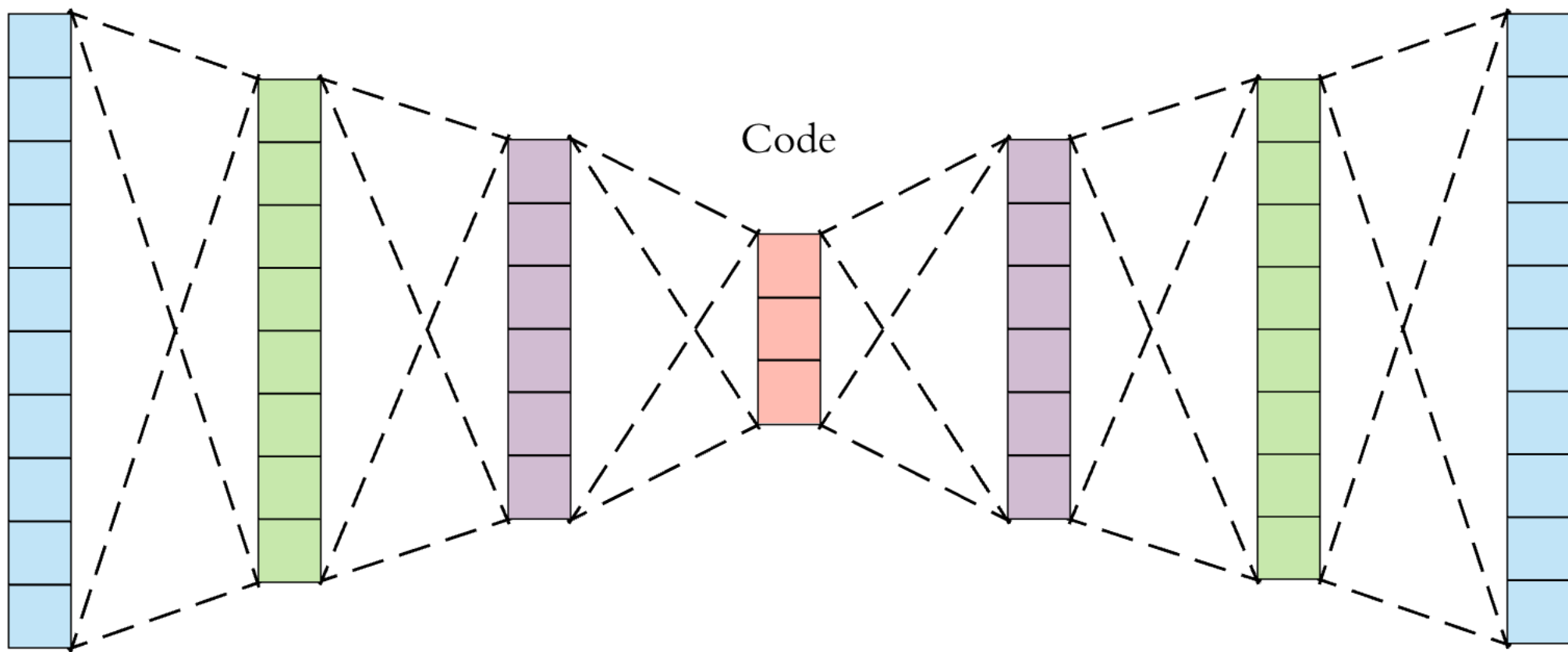


(Dutt et al.)



Input

Output



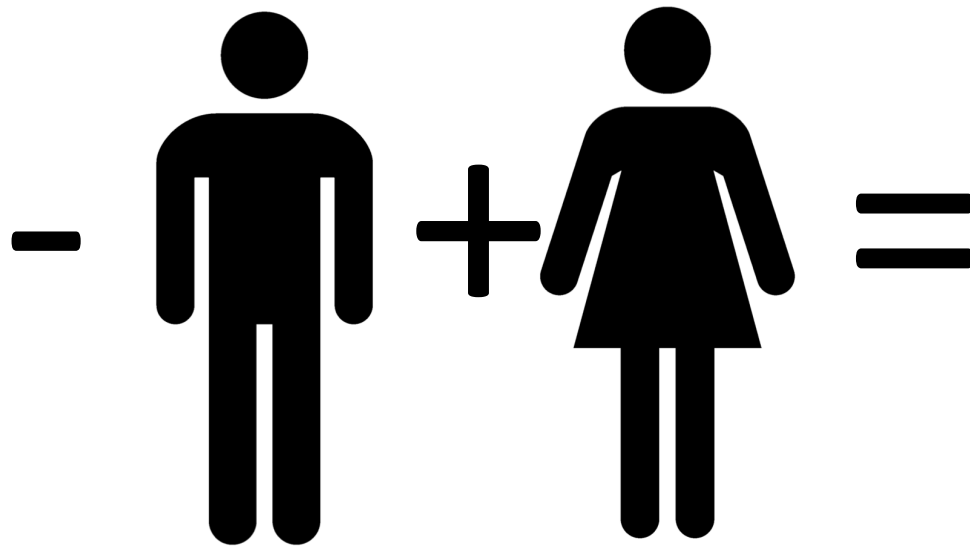
Code

Encoder

Decoder

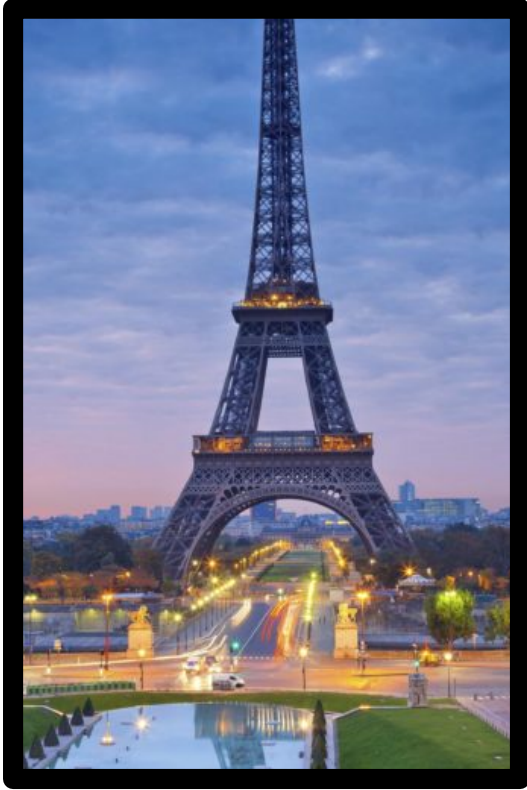


Konge



Mann

Kvinne



Paris



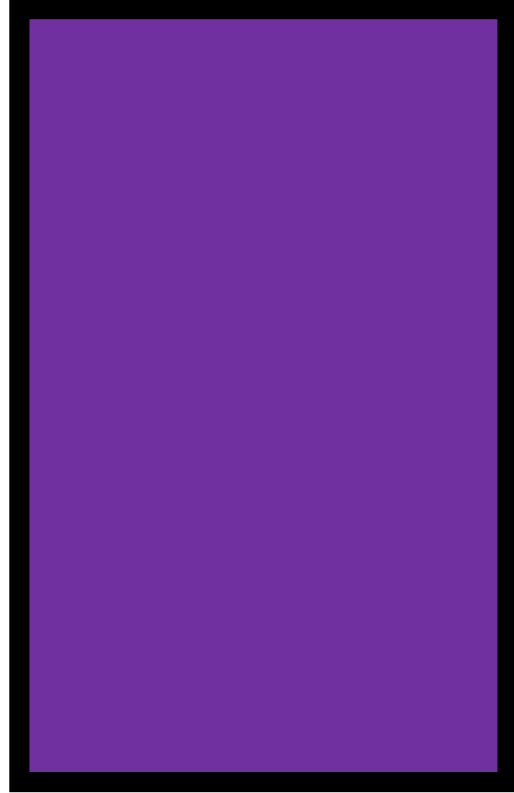
Frankrike

Japan



Eple

+



Lilla

=



Kylling

+

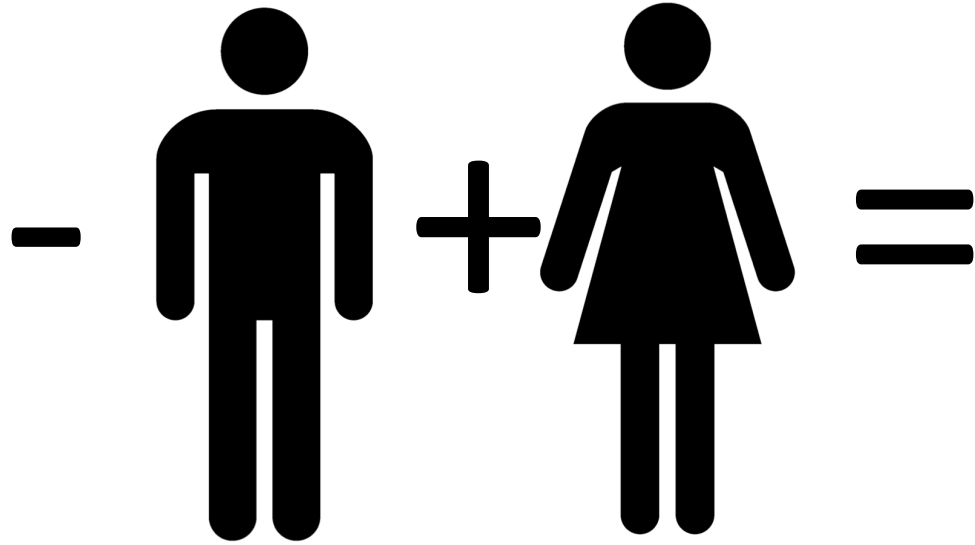


Søt

=



Kirurg

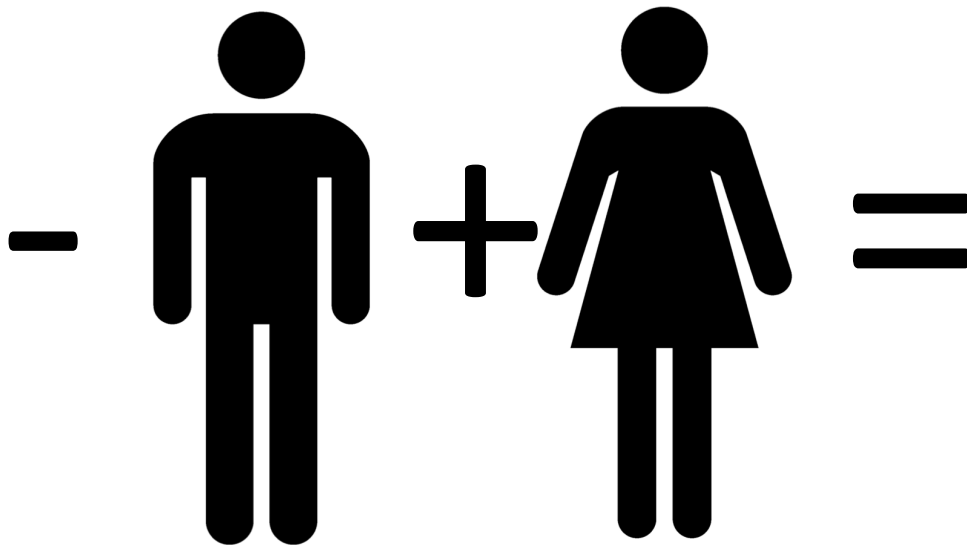


Mann

Kvinne



Fotballspiller



Mann

Kvinne

- Assignment:
- Either install python and pytorch, or register for an online service such as Google Colab(<https://colab.research.google.com/>)
- Run the Script: MovieChatbot.py
- **Make your own model.** Suggestions
 - Change the layers (more, fewer, dropout, ...)
 - Change the input text
- When we meet next time, you will be asked to present your chatbot, what changes you made to improve it. Which changes worked, and which did not.
-

