



AILIT



HELSINGIN YLIOPISTO
HELSINGFORS UNIVERSITET
UNIVERSITY OF HELSINKI

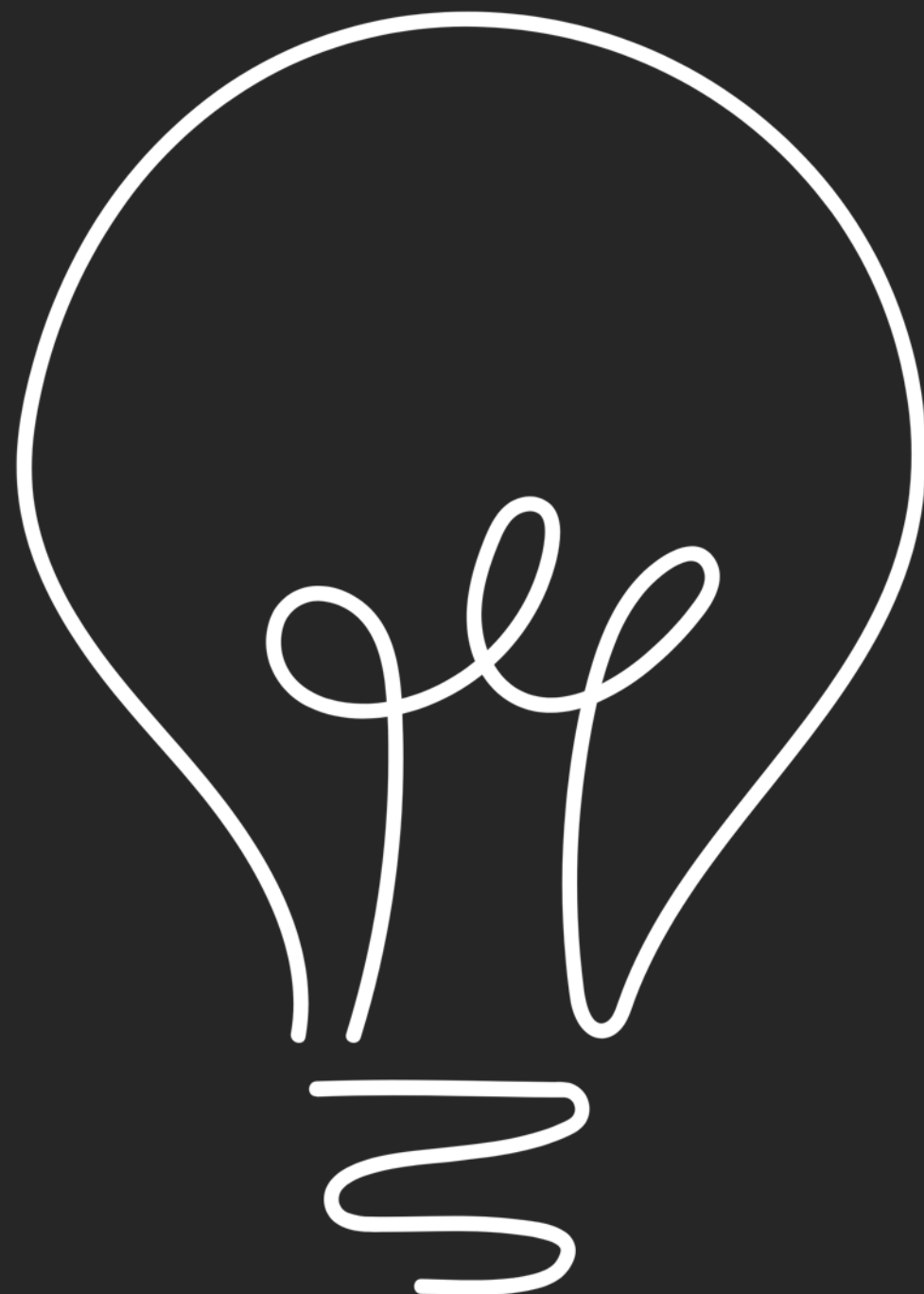


Svenska
kulturfonden

Förhandsuppgift

Vad är AI?

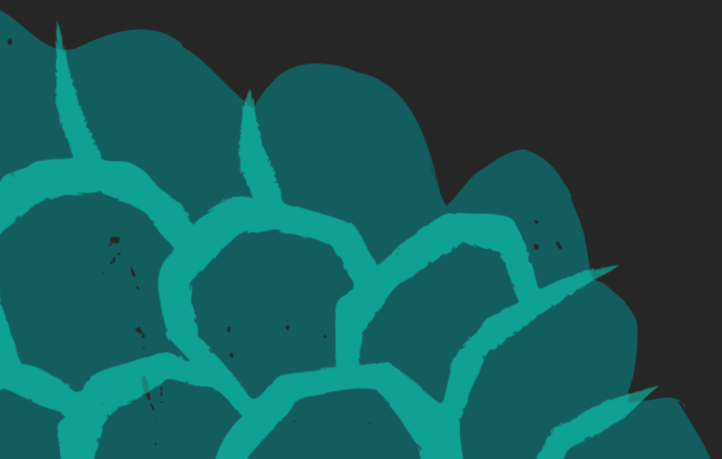
Var finns AI?



QR-kod

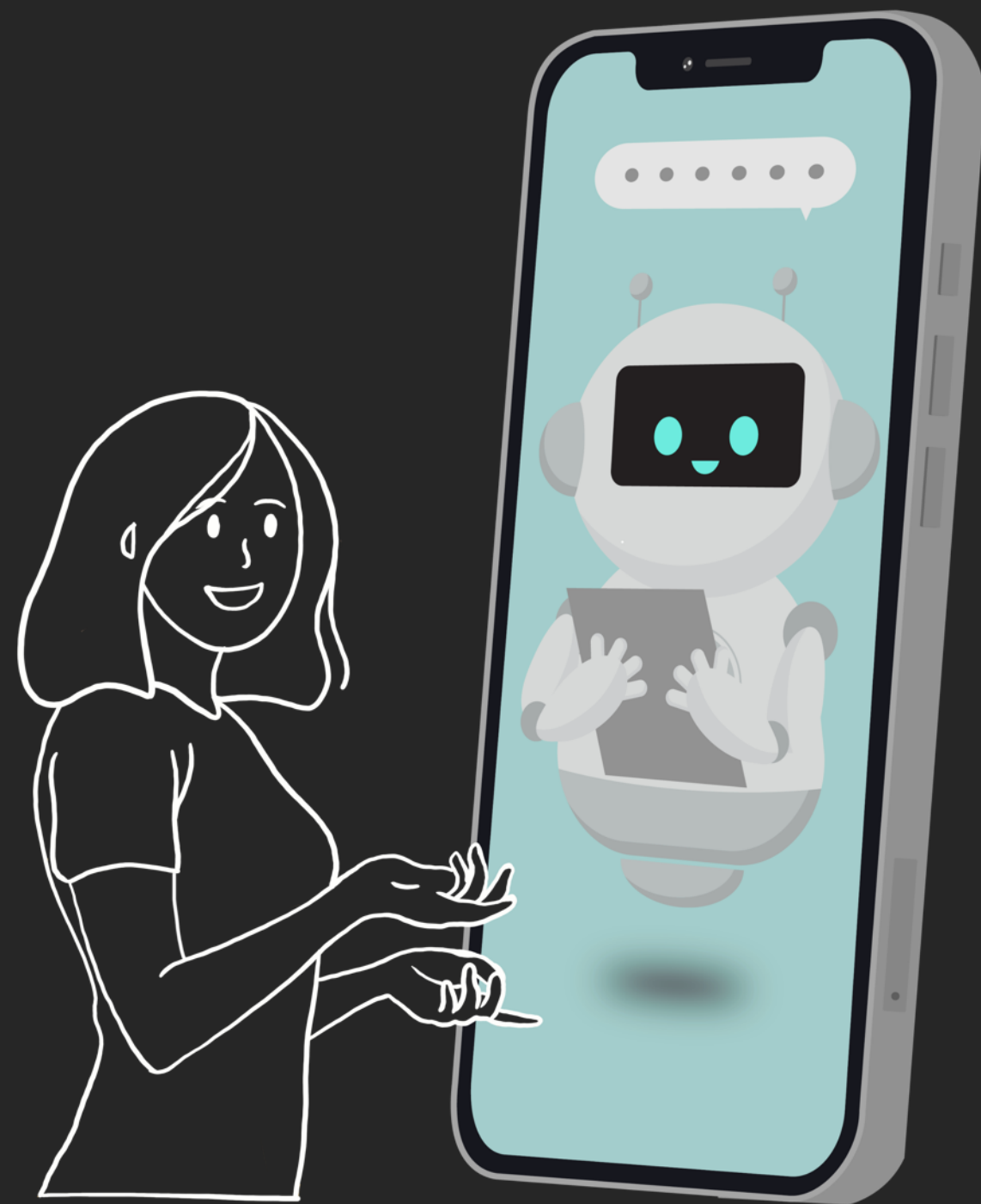
Länk till platformen

11 11 11 11



Artificiell intelligens AI





Idag ska vi
bekanta oss med
vad AI är, ***var*** AI
finns och ***hur*** AI
funkar!

Vad betyder AI?

Artificiell

gjord av oss, inte
naturlig, oäkta



vs

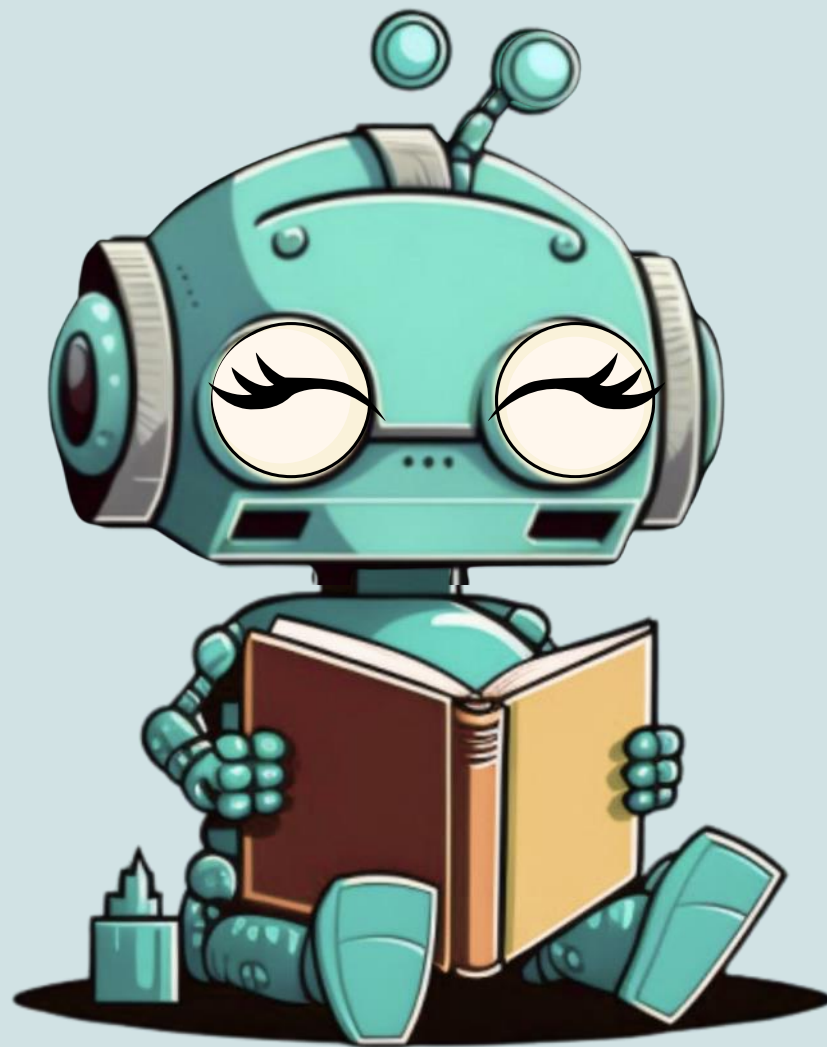


Intelligens

att kunna uppfatta,
lära och göra saker
med det man lärt sig



Videodags!

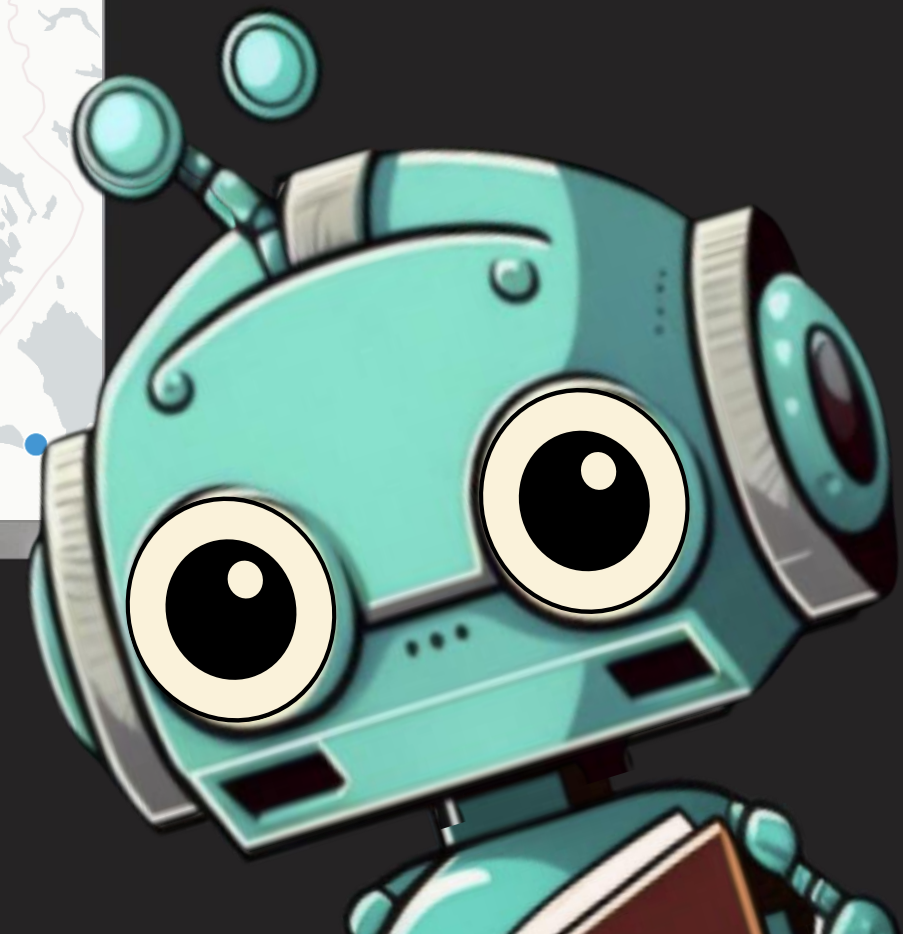
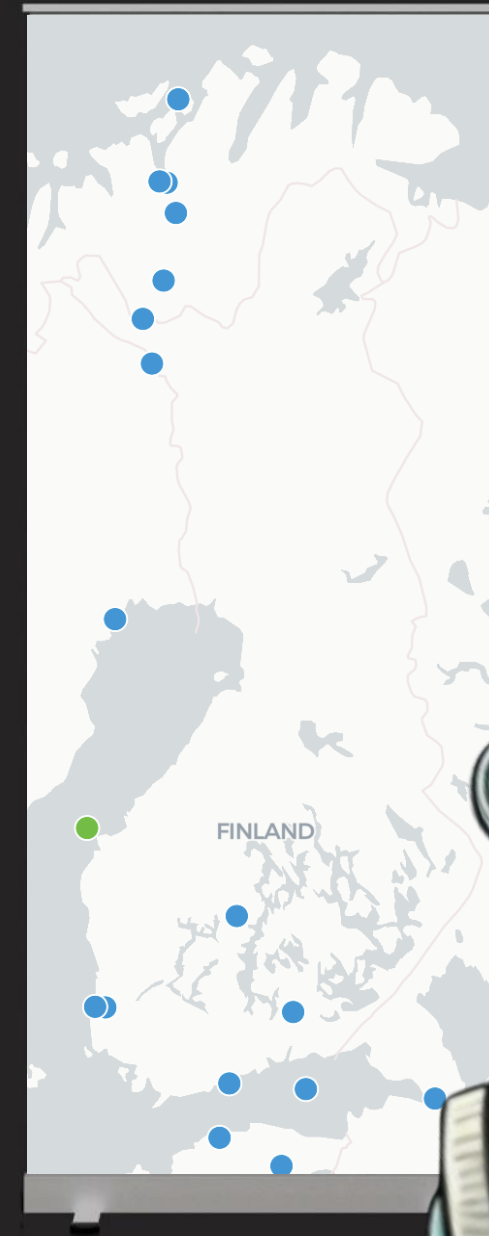
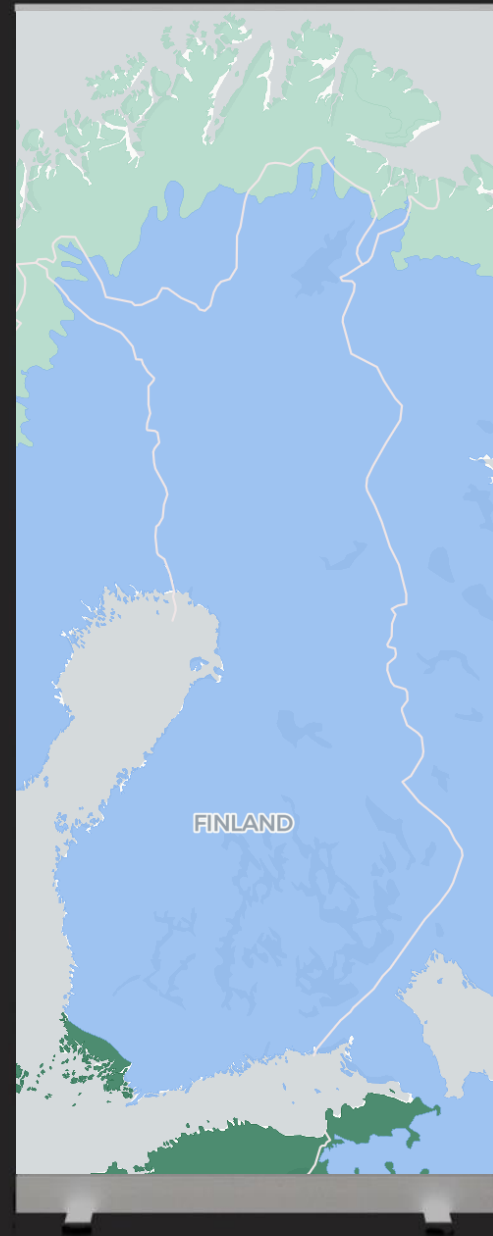
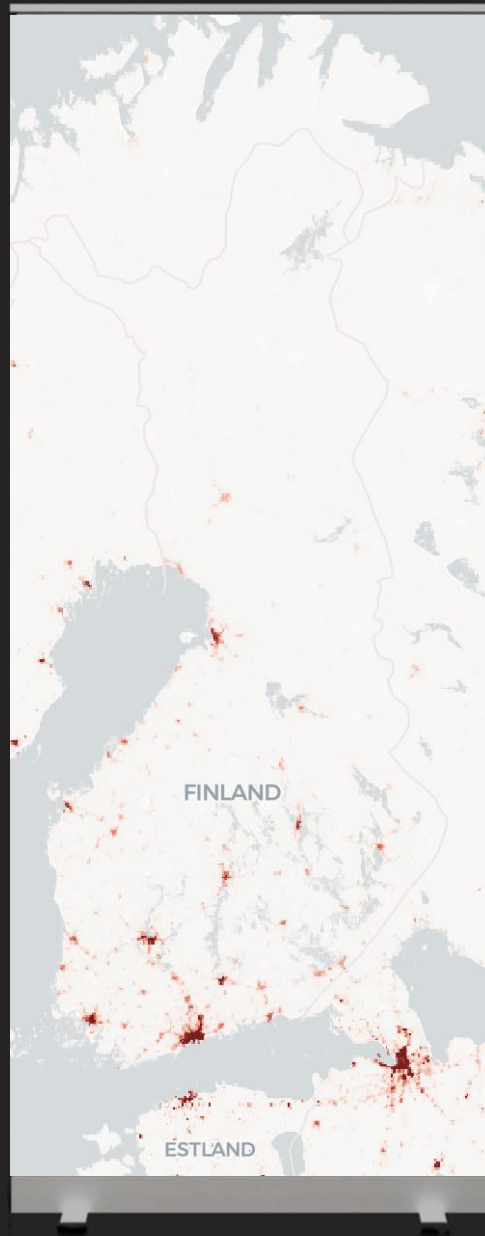


Vad är maskininlärning?



VALBAR

Modell





Alla katter i din stad skulle vara data!

När det gäller bildmodeller används bilder som data!

Data och modell

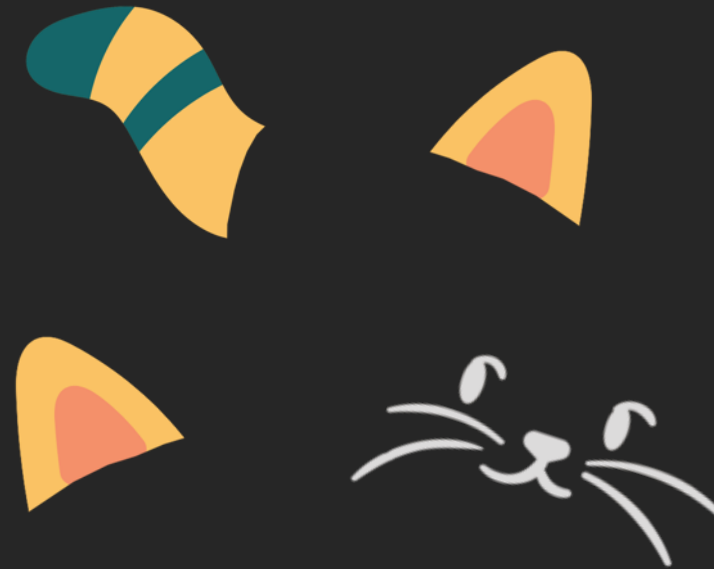


1



Se/uppfatta data

2



Lära/träna

3



Använda den tränade modellen för att t.ex. känna igen eller förutspå något

Maskininlärning används ofta för att känna igen eller klassificera.



ELLER



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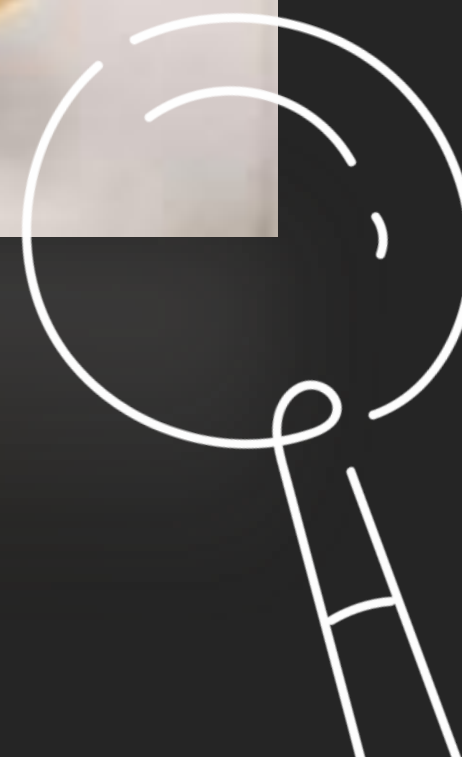
Ropa ut det rätta svaret då du sett bilden!



ELLER



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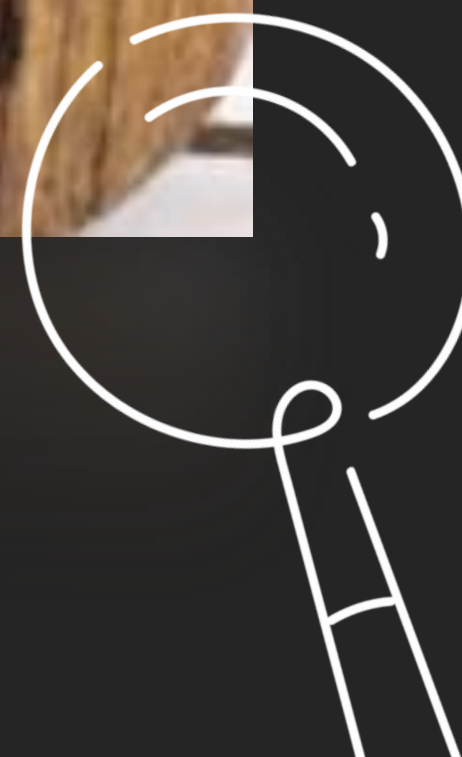




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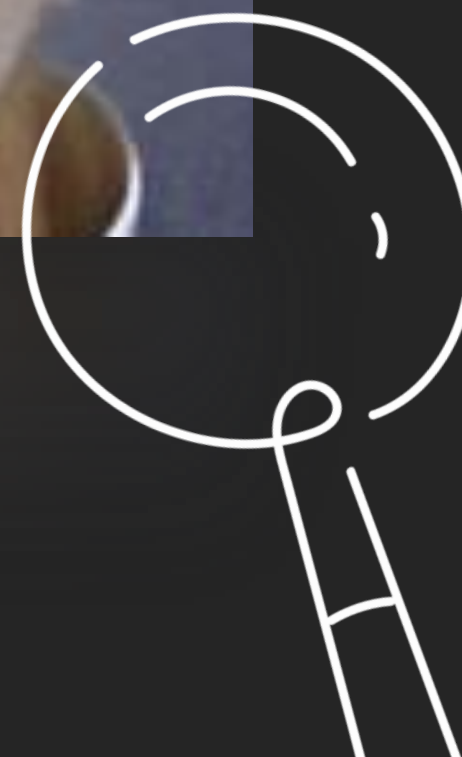
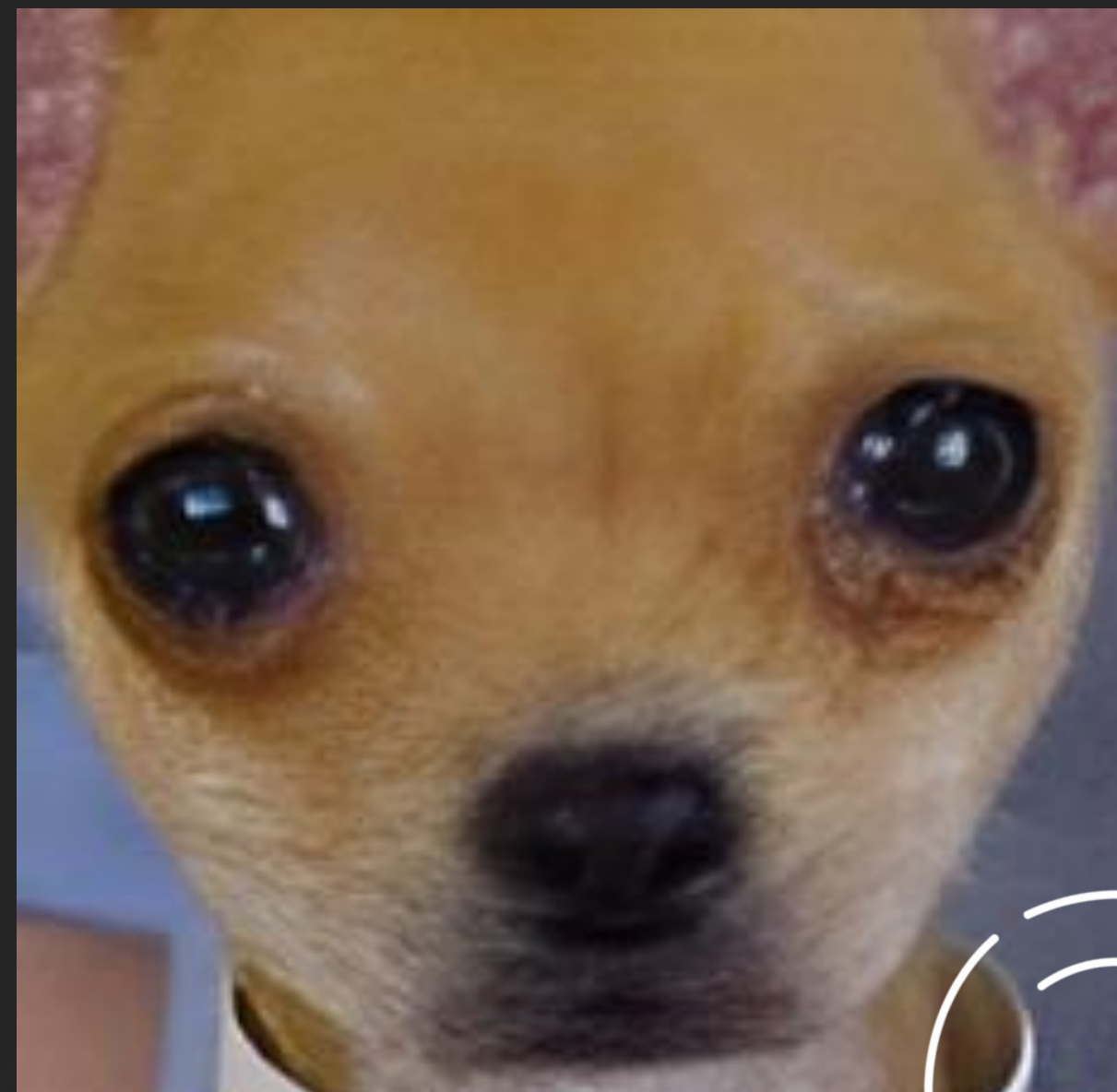


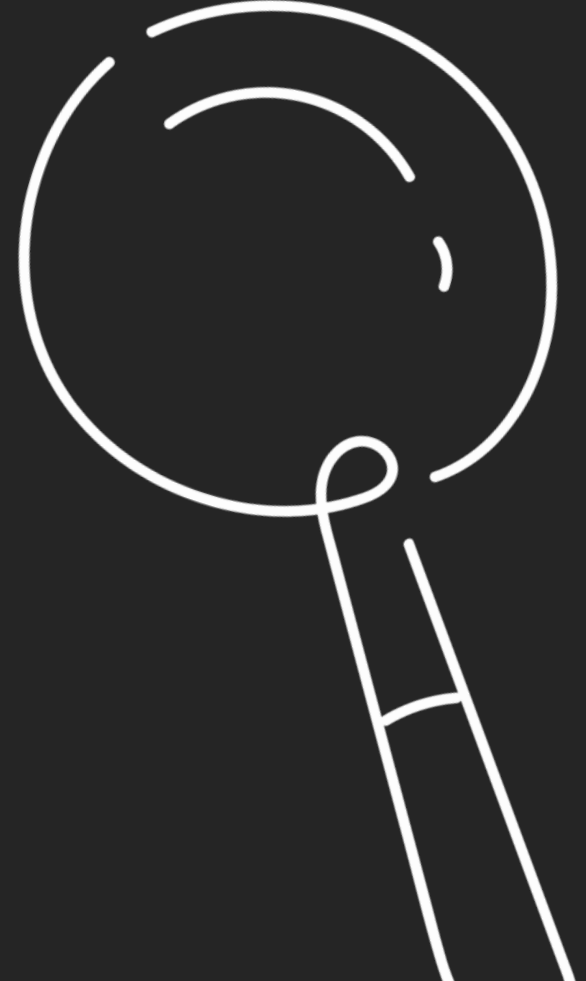


ELLER



?







VALBAR

Rader (vågrätt)

Kolumner (lodrätt)

Färger (RGB: röd, grön, blå)

70 av 255 röd
128 av 255 blå
103 av 255 grön



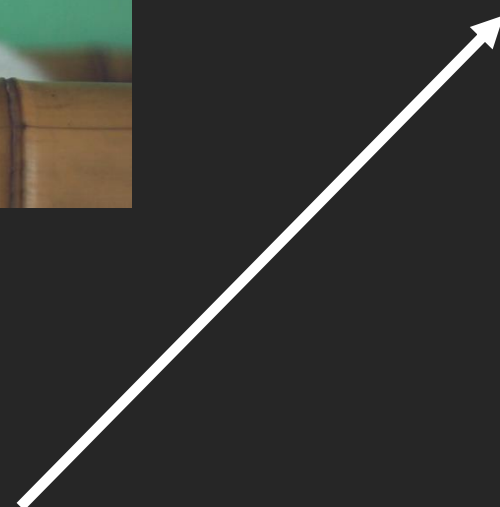
5026, 3458, 3



0, 100



70 128 103



En enskild pixel, t.ex. (0, 100)
Den första raden vågrätt(0)
101:a raden lodrätt(100)

Bilden består av 5026x3458 pixlar
(5026 pixlar vågrätt, 3458 pixlar lodrätt)
Varje pixel består av tre färger (röd, grön, blå)

**Hur har vi lärt oss
känna igen en lampa?**



Designschema

VALBAR

1. Samla in träningsdata

Känsla 1/form
1/livsmedel 1

Känsla 2/form
2/livsmedel 2

2. Träna modellen

3. Använd modell

Testdata

Tränad
modell

Känsla 1/form 1 --> ?
Känsla 2/form 2 --> ?

4. Resultat

Känsla 1/form
1/livsmedel 1

Känsla 2/form
2/livsmedel 2





Träningsdata

Tumme upp

7 bildprov



Webbkamera



ladda upp



Tumme ner

8 bildprov



Webbkamera



ladda upp

[+ Lägg till en class](#)

Träna

Träna klassificerare

Klassificeraren behöver träning

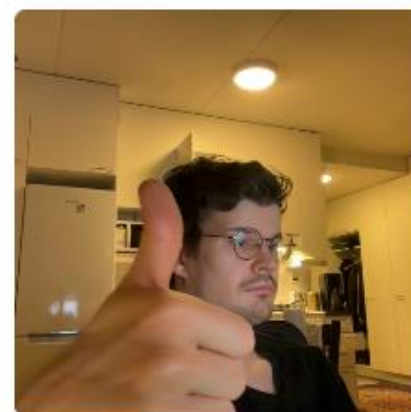
Inmatning

På

Webbkamera

Fil

Device



Klassificerare

Dela

Klass 1

100%

Klass 2

0%

Åtgärder

Klass 1

Meddelande
Tumme upp!

Klass 2

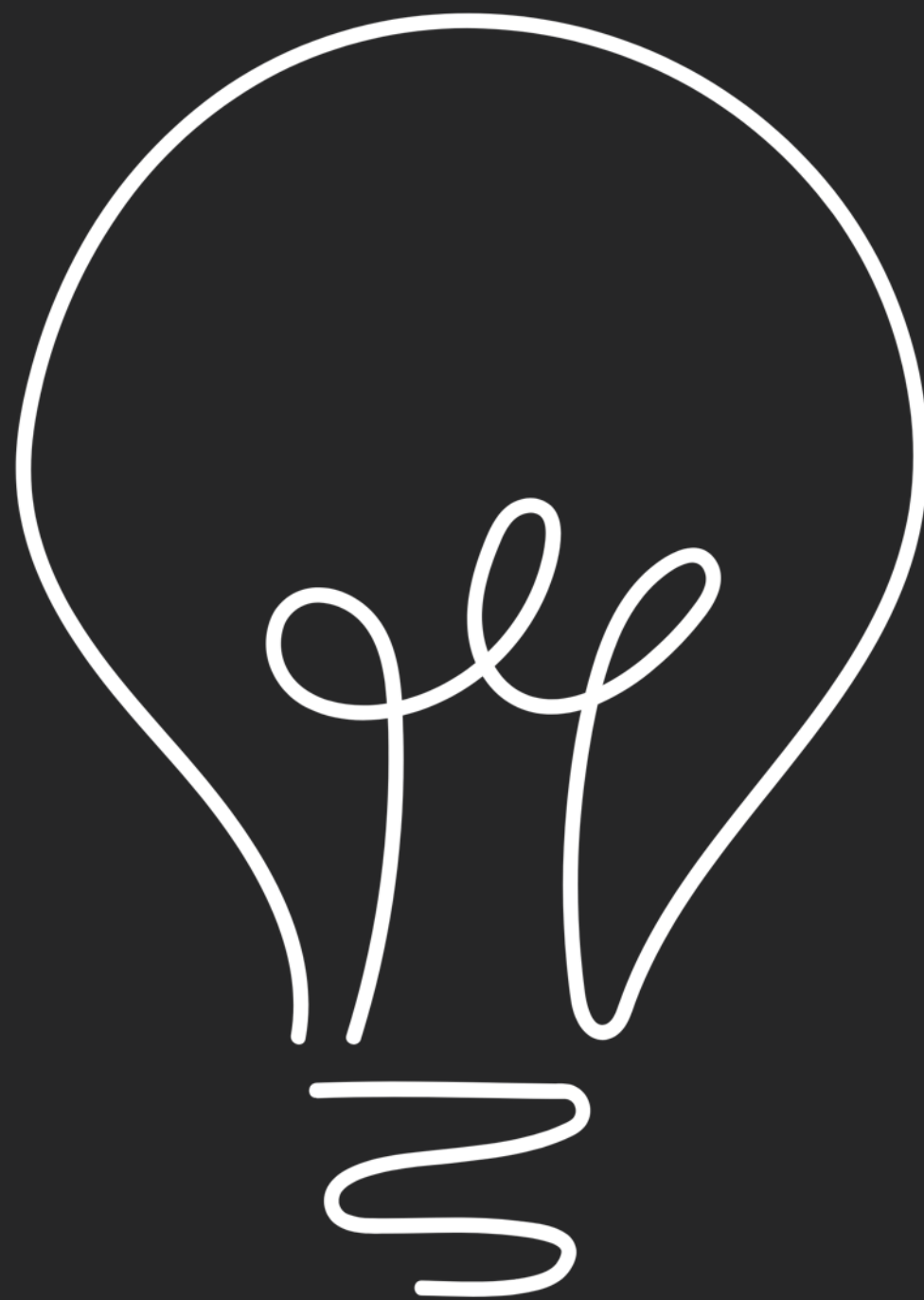
Meddelande
Tumme ner!

Output

Tillämpa

Tumme upp!





tm.gen-ai.fi



 PetMD
Why Do Cats Get Stuck in Tree...



 Petttable
Why Do Cats Climb Trees? | Petttable – ...



 Daily Paws
New York Family Spends Thanksg...



 Oakhurst Veterinary Hospital
Tree Dweller or Bush Dweller?...



 Petttable
Why Do Cats Climb Trees? | Pet...



 Armarkat
How Cat Trees Can Benefit Your ...



 Cleveland.com
Cat up a tree? Here's how to coax it...



 11Alive.com
Why do cats get stuck in trees? | 11alive....



 Cat in a Tree Emergency Rescue
Helpful Tips – Cat in a Tree Emerg...



 CatGenie
Who to Call for a Cat ...



 Anita Kelsey - Cat Behaviourist
the Importance of climbing for indoor cats ...



 Cardboard Cat Homes
My Cat Is Stuck In A Tr...



 Vancouver Island Free Daily
Victoria man moonlights as cat r...



 Hepper
Why Do Cats Get Stuck in Trees? ...



 Purely Pets Insurance
Is it safe for cats to climb up high?



 Your Cat Magazine
Why do cats climb trees? - Your Cat



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 Pet Keen
How to Keep a Cat From Cli...



 Pet Keen
How to Get a Cat Out of a Tree (6 P...



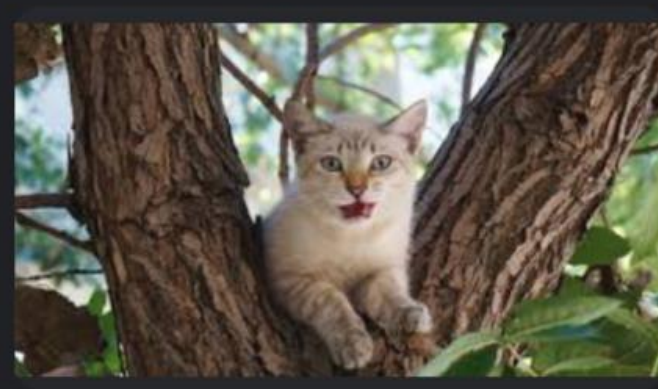
 iStock
40+ Kittens: Two Cat...



 Pet CPR and First Aid Training
Why do cats get stuck in trees and no...



 Bored Panda
30 Cats Showing Off Their Skills At The Diff...



 PetCoach
Why Do Cats Get Stuck in Trees? | PetCoach



 Isthmus
On a pedestal - Ist...



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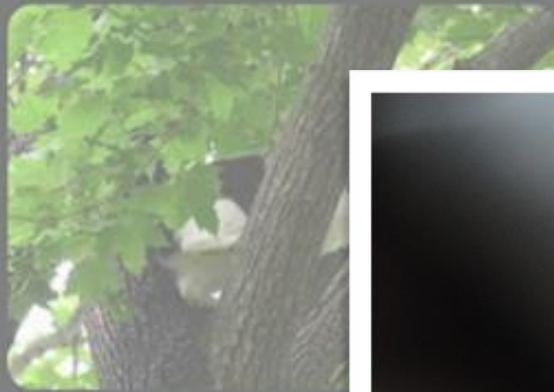
Oakhurst Veterinary Hospital
Tree Dweller or Bush Dweller?...



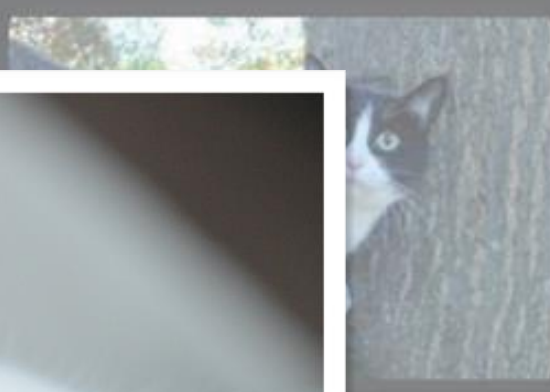
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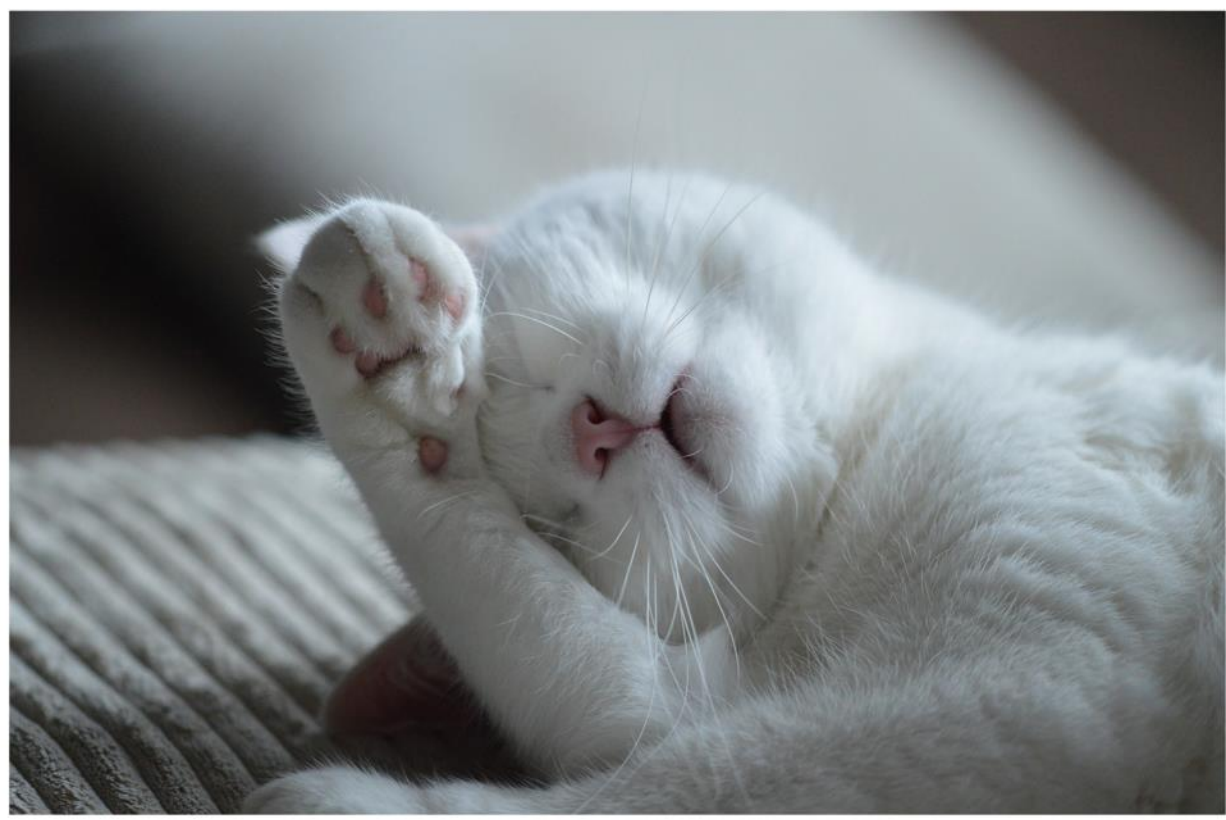
Anita Kelsey - Cat Behaviourist
the Importance of climbing for indoor cats ...



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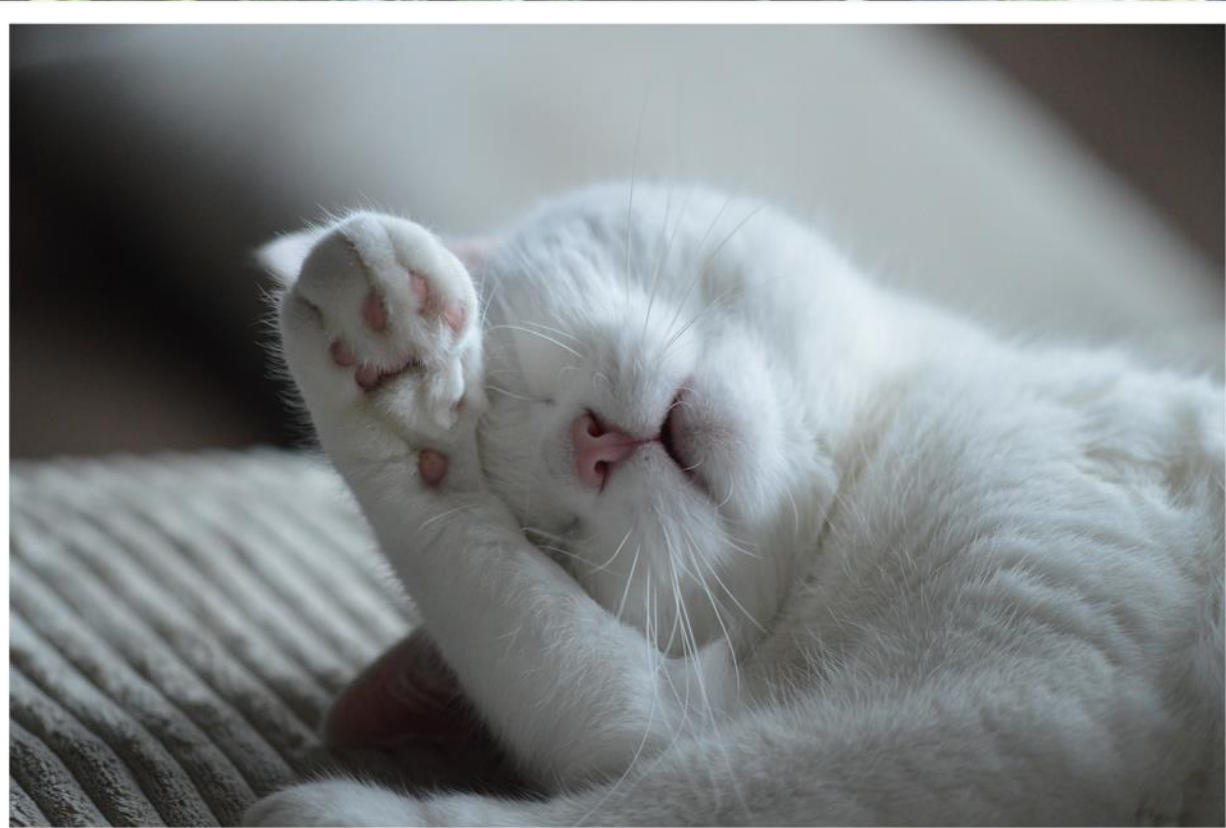
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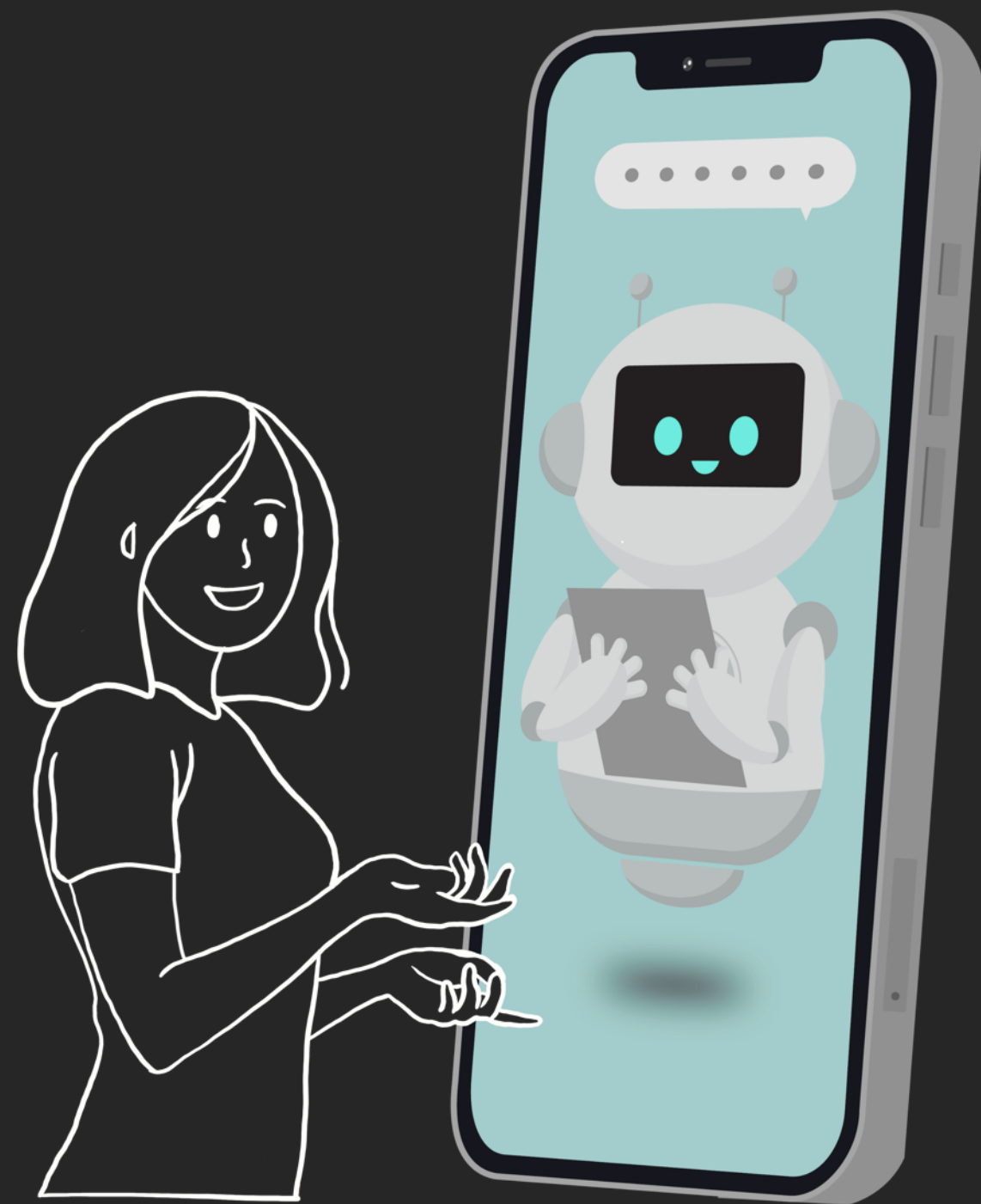
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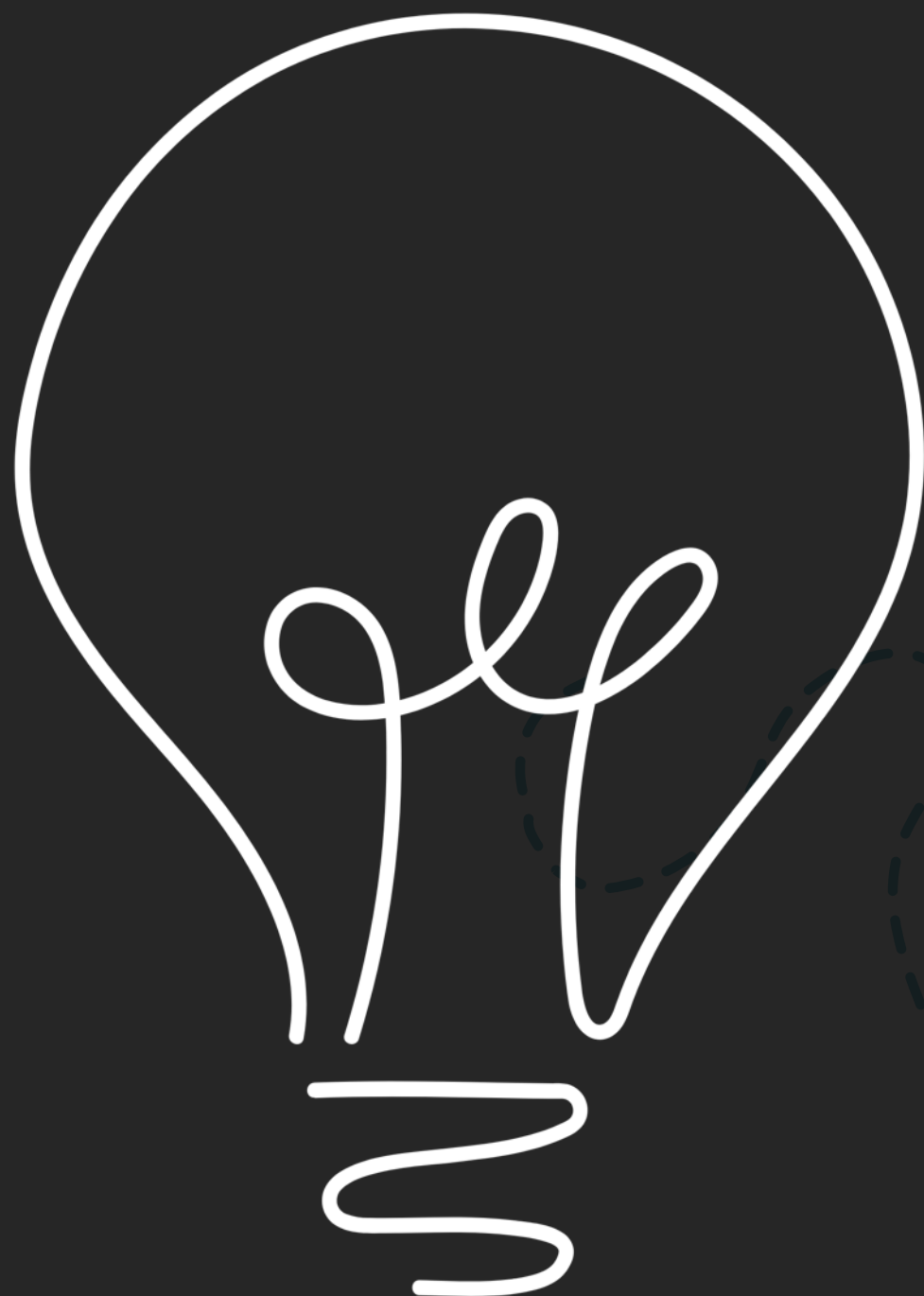


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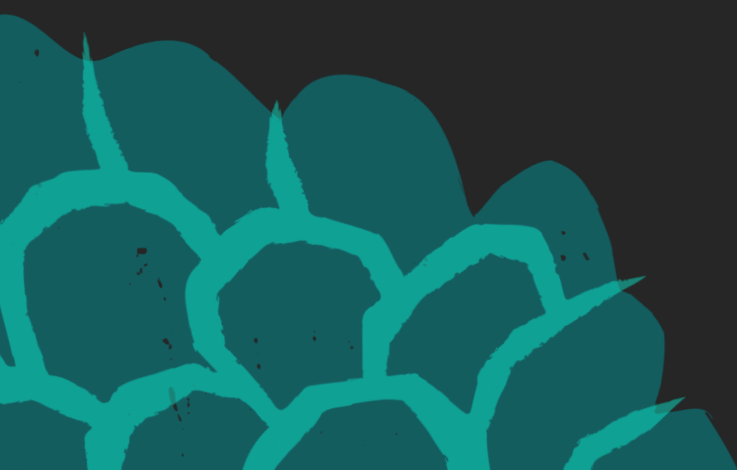
Efterhandsuppgift



QR-kod

Länk till platformen

11 11 11 11



Tack och hej!

