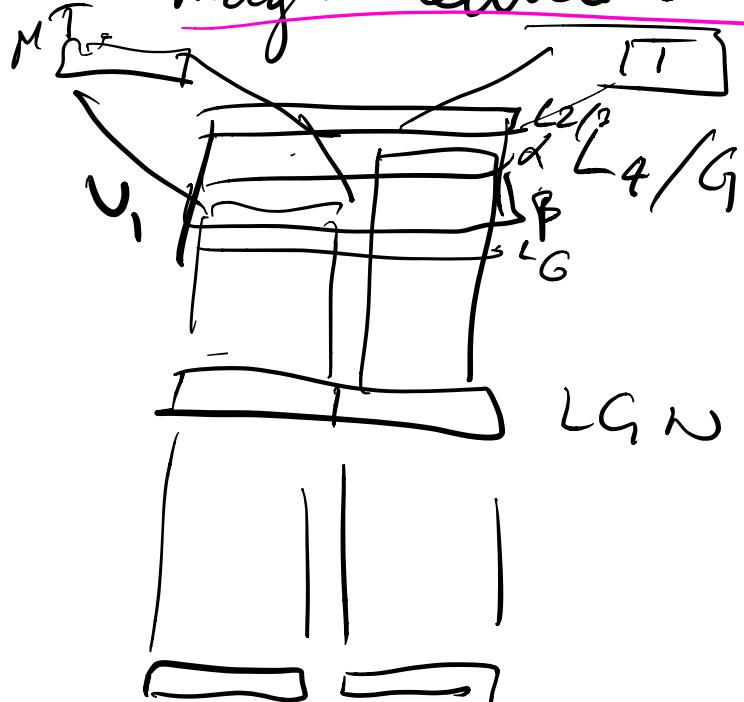


generic: WHERE AND WHAT

Localization versus identification

STAGE A

Computational modelling of
visual object localization in the
magnocellular pathway

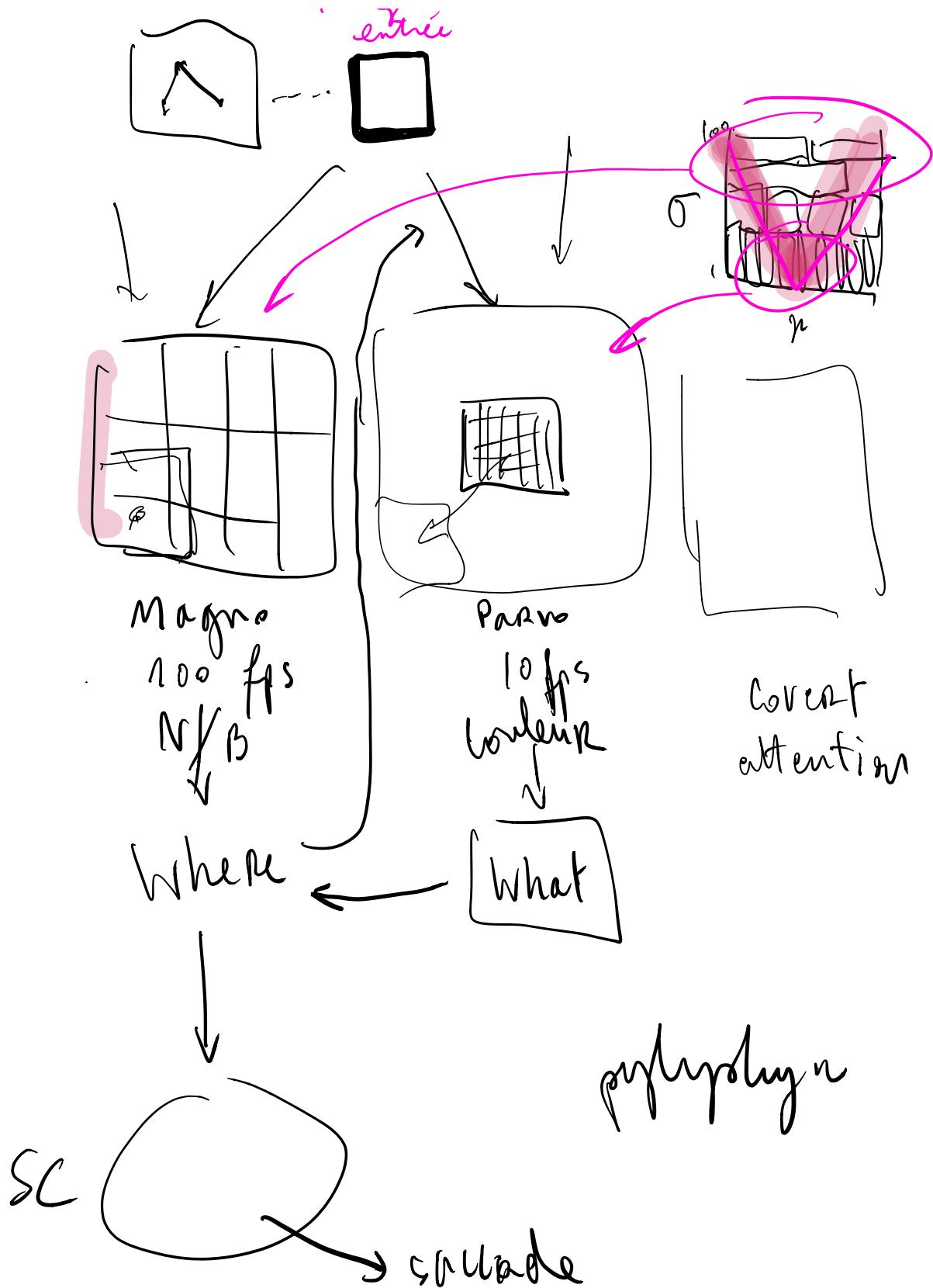


Tom
Dagens
11

Thierry
ARTIGUES

of Sallin & Bullier

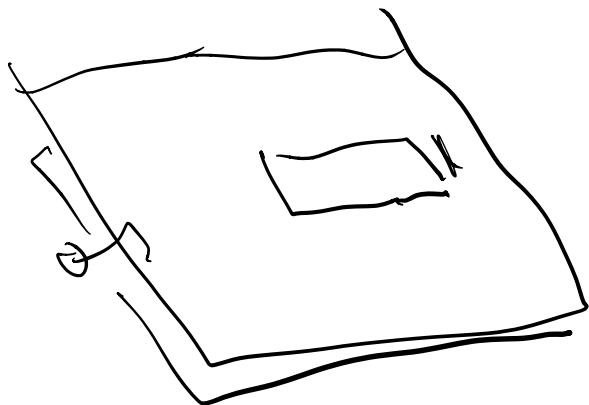
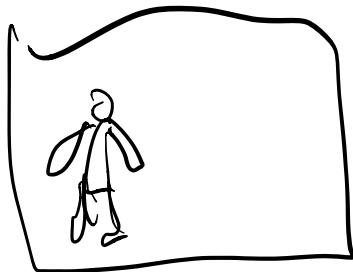
Image



le where permet de détecter
la classe / sa position
qui engendre une saccade der
what → identification
- validation

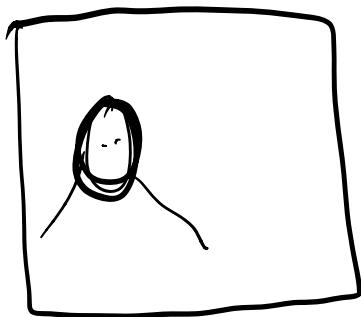
voiture autonome → benchmark
potentiel

Jetson (NVIDIA)

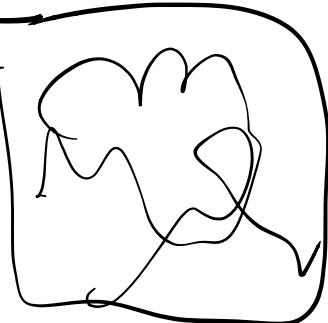


reconnaissance de personnes / visages

postures



+



Coco dataset

par exemple 2 grandes classes =

L

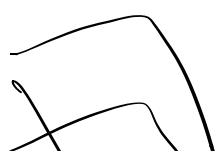
Moyens de loc

A

objets animés

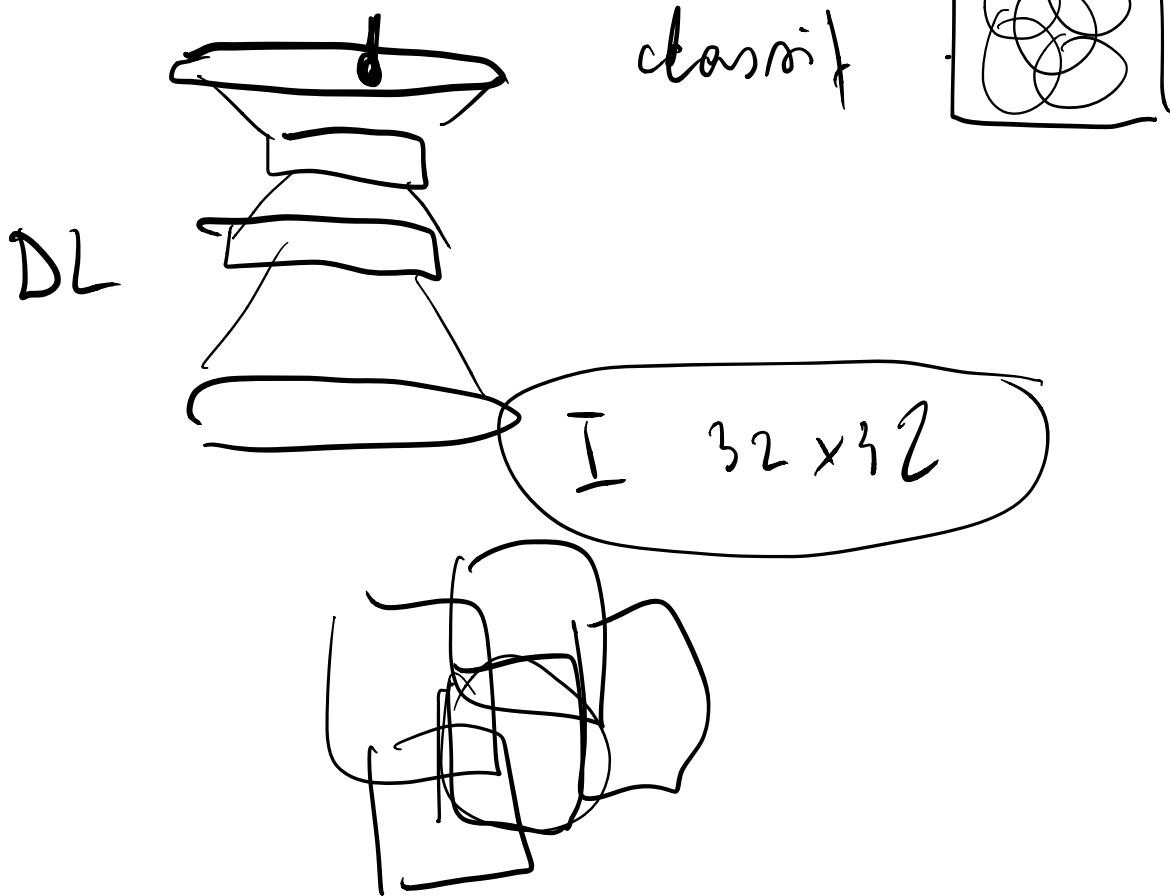
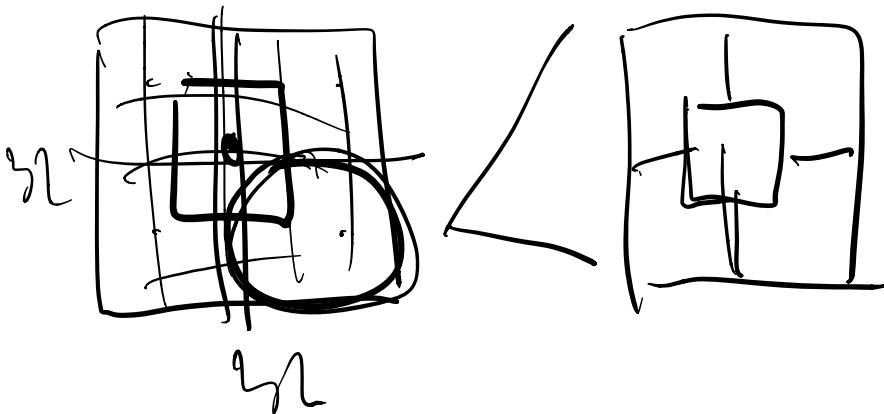
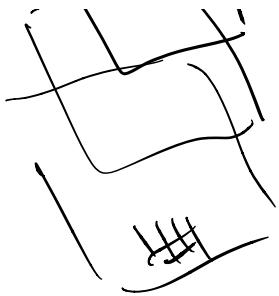
→ avec plein de sous-classes

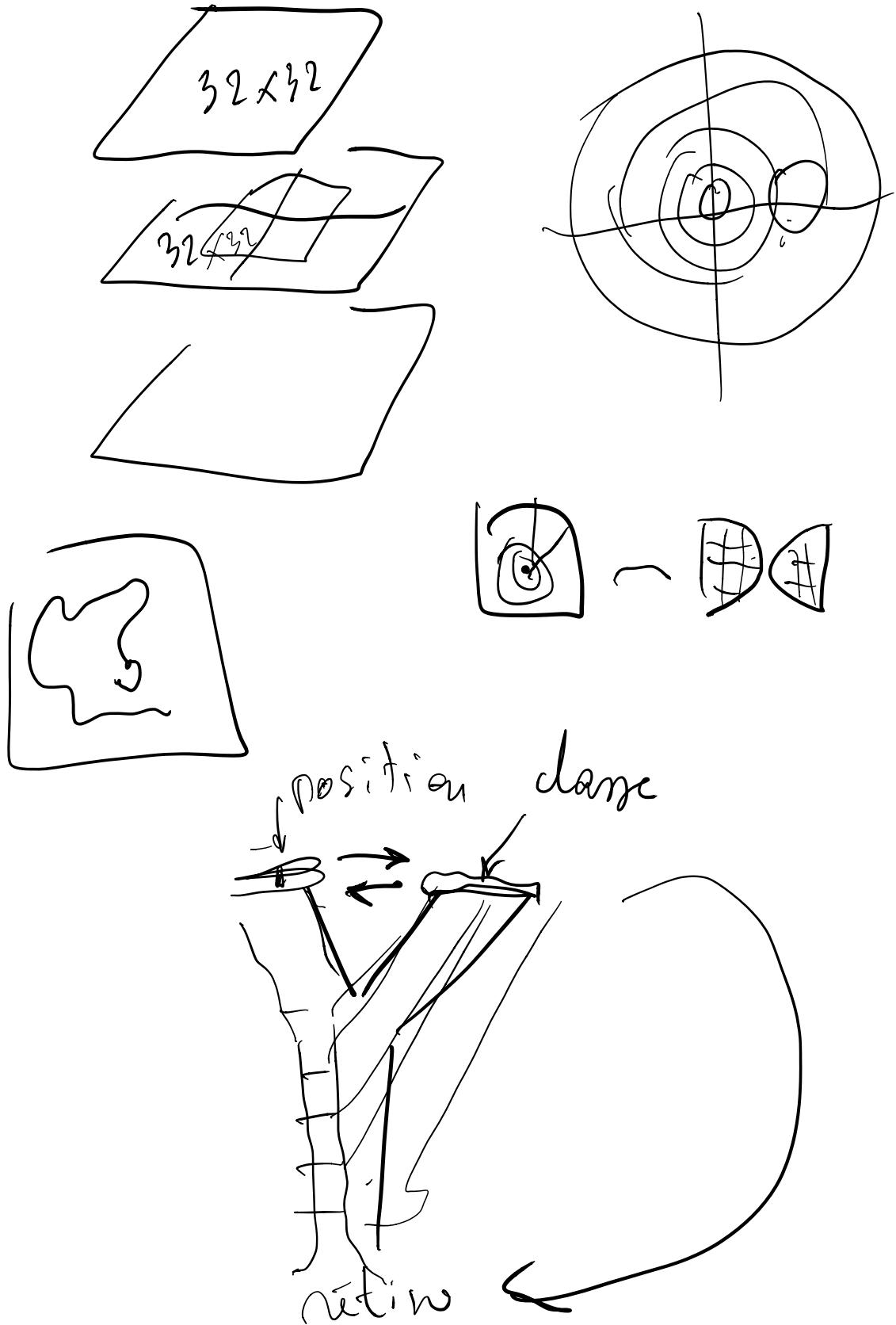
1er niveau : Where



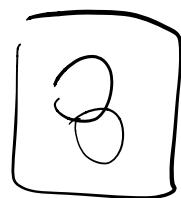
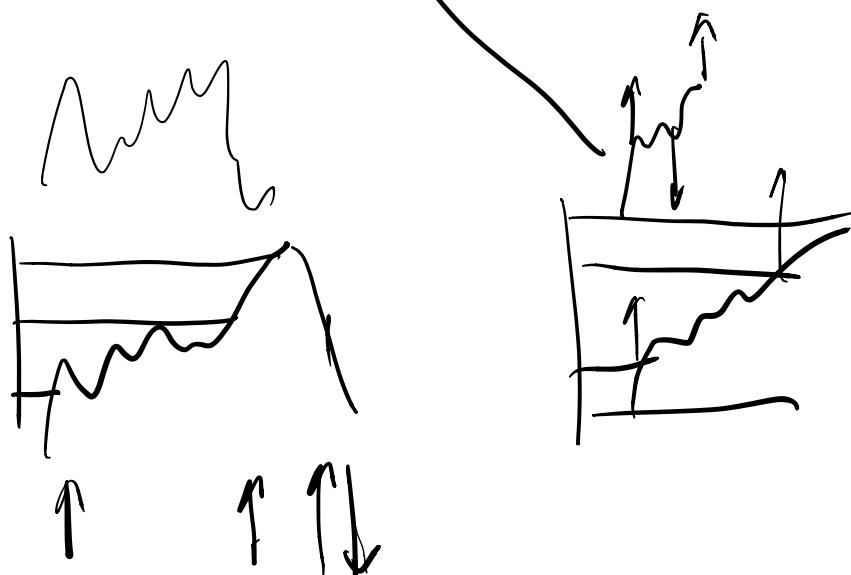
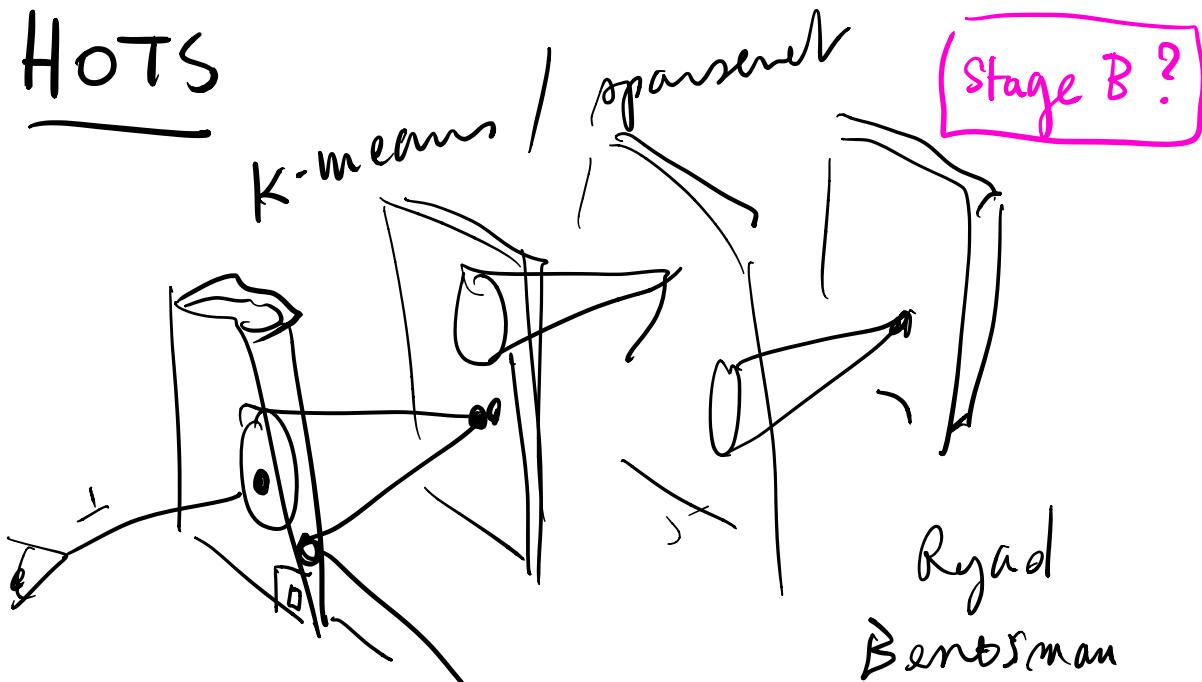
Deep learning

where is object L ou A





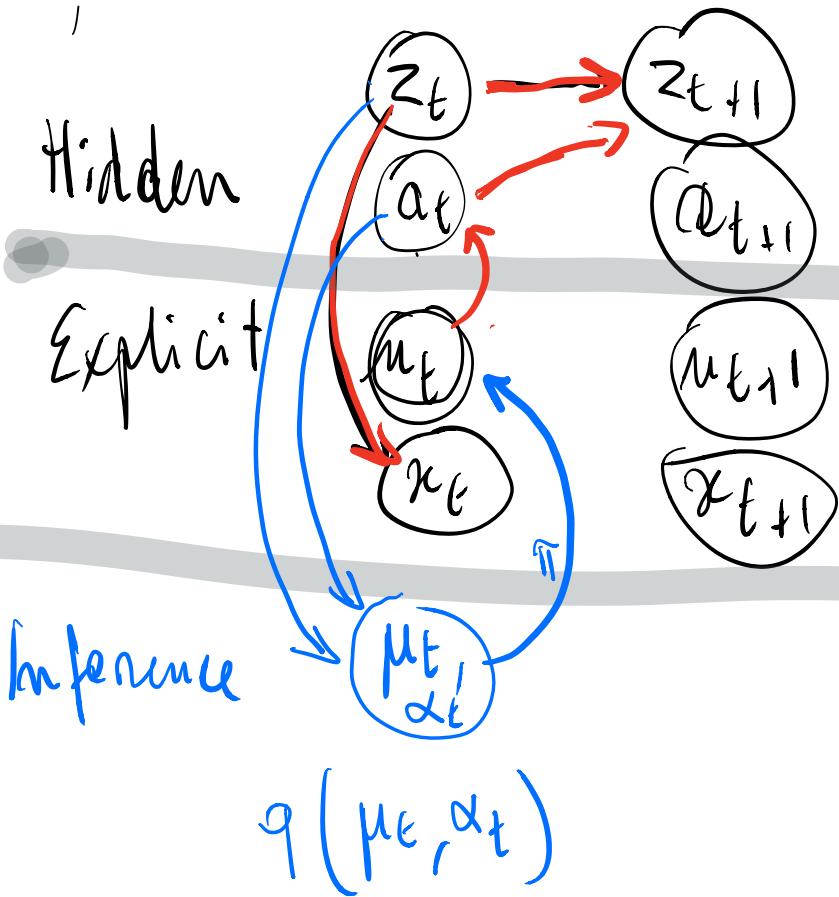
HOTS



Probabilities am Life?

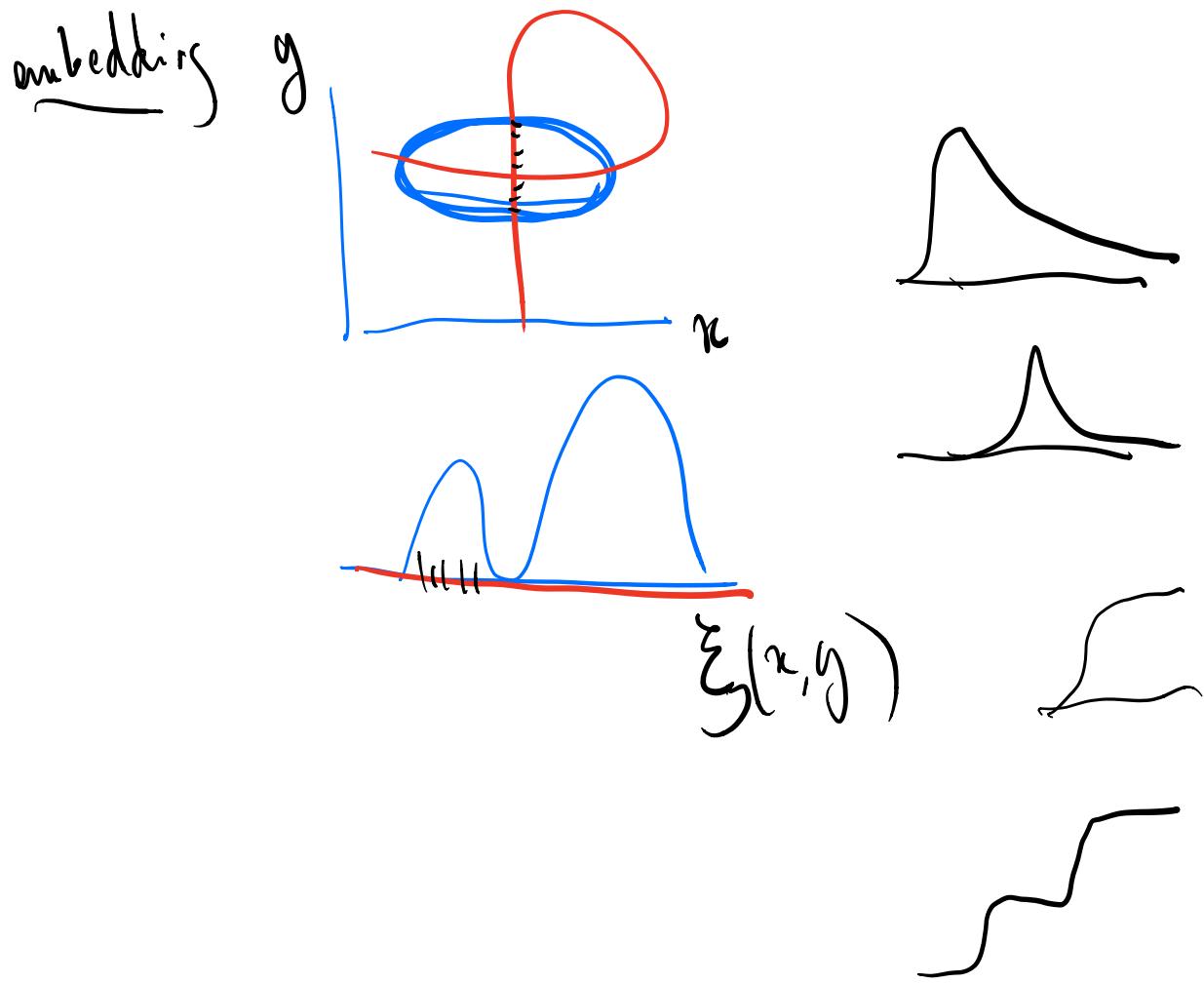
PoMDP - HMM - Bayesian change point

Active Inference



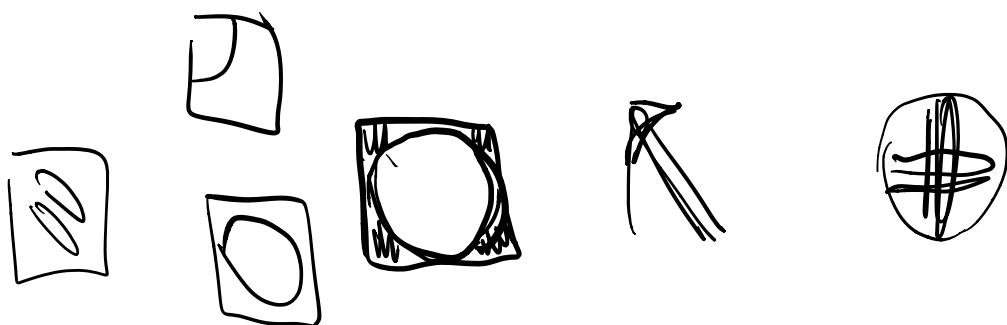
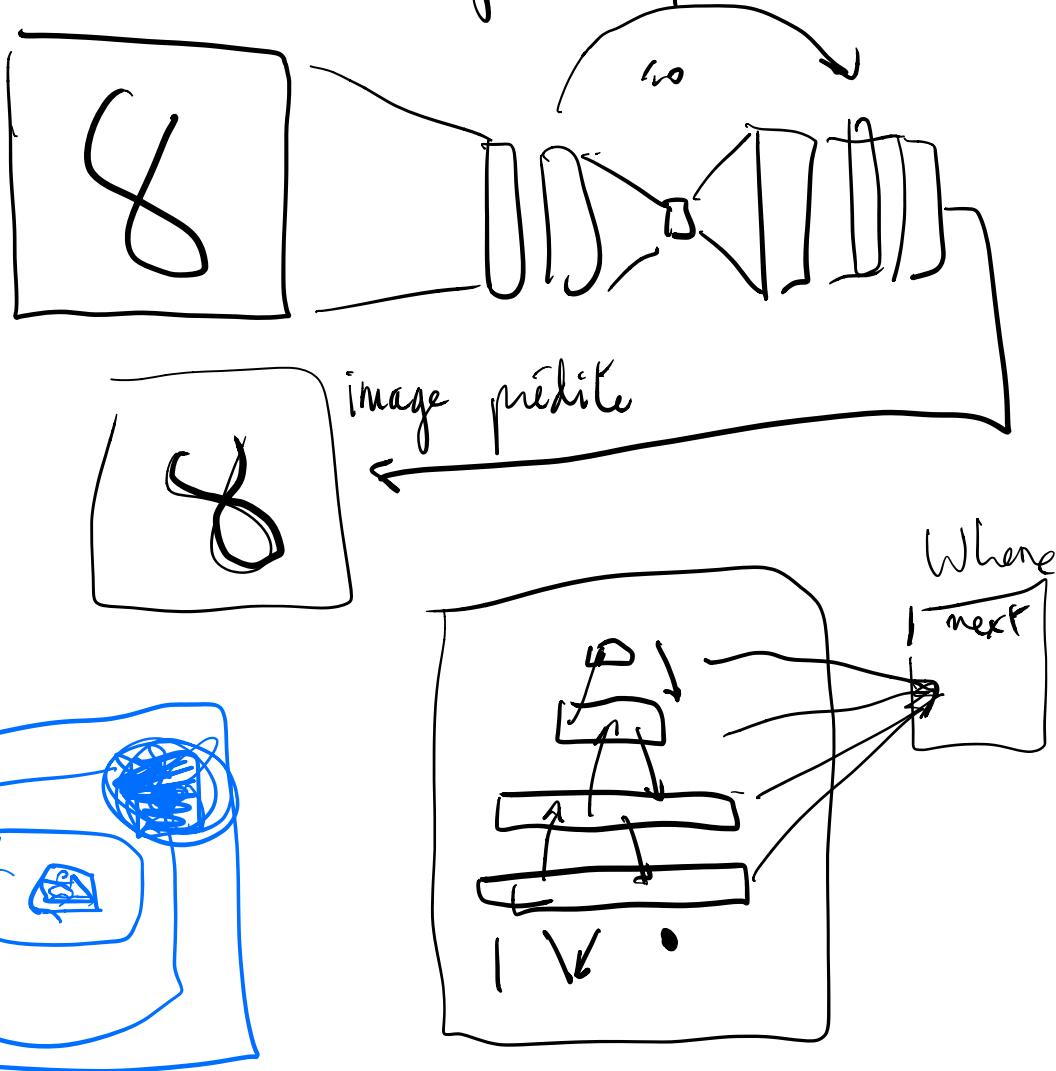
\rightarrow -cause
 done by process

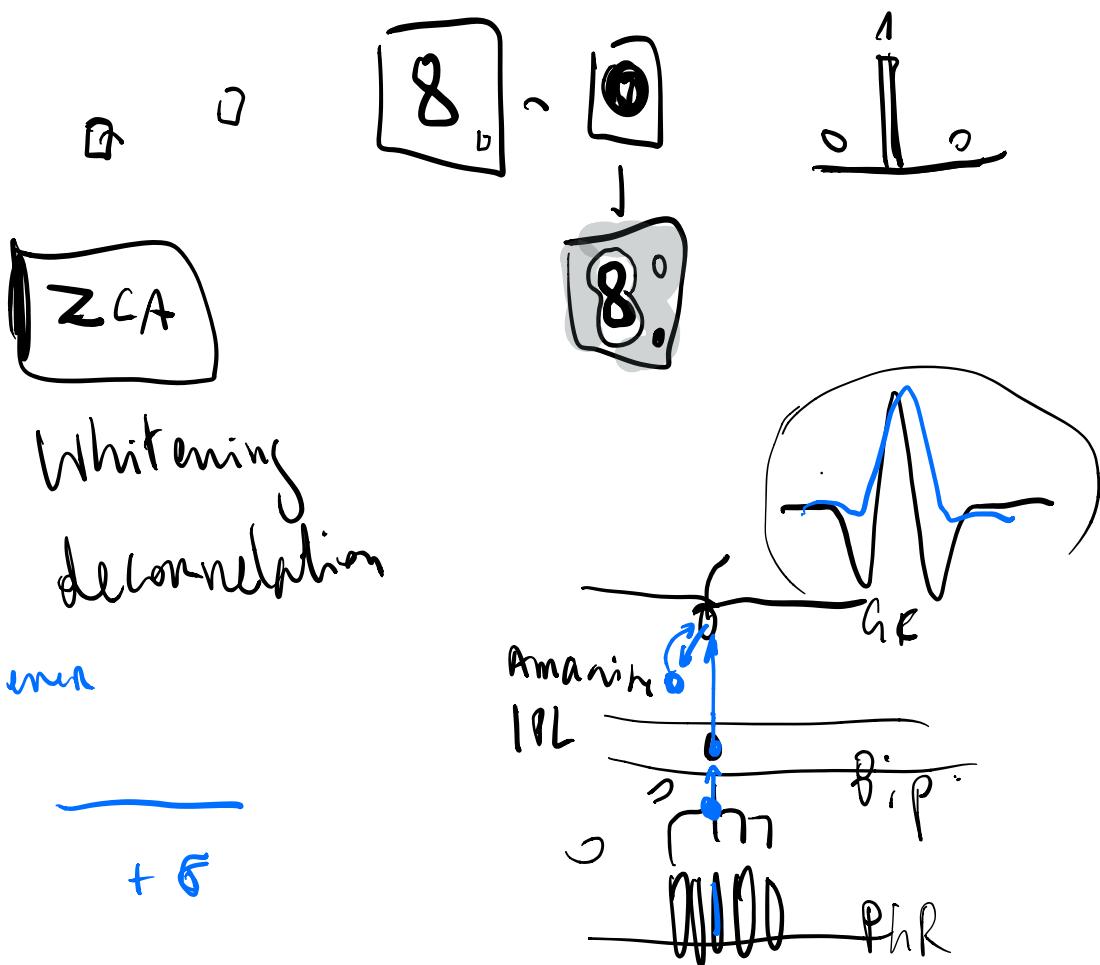
\rightarrow control
 done by model



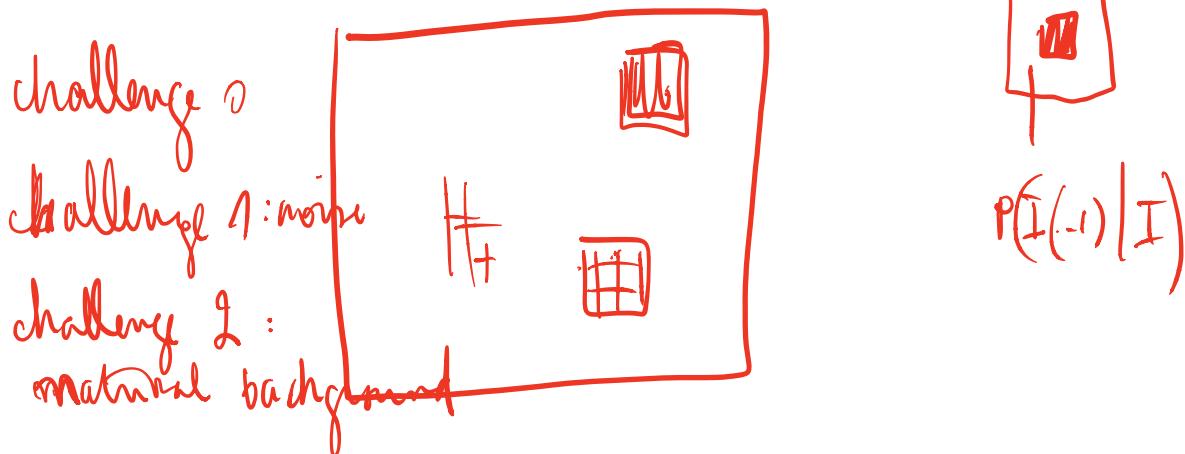
Papier ICLR

→ Frontiers -
github pixel -

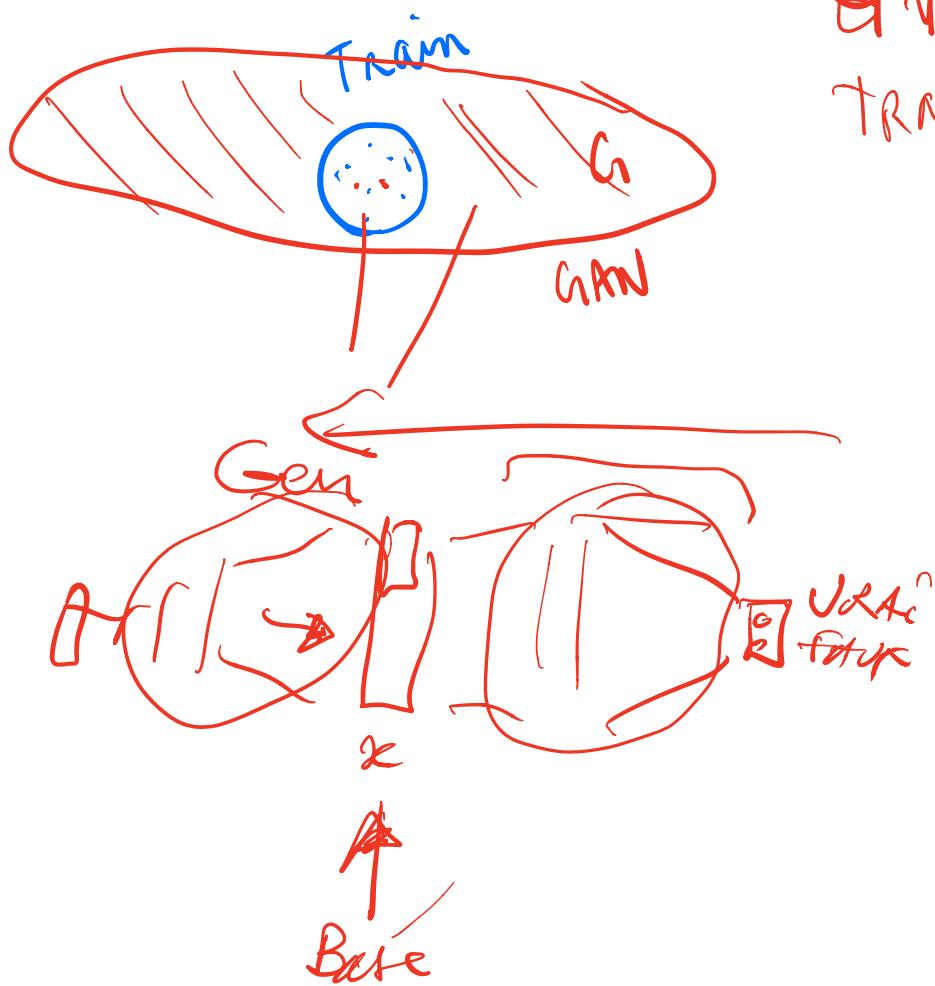




Terror/Vow
 92% avec une cyphée



Not Train
Train



MASTER de NEUROSCIENCES

2ème année du Master – M2

AUTORISATION D'INSCRIPTION EN STAGE 2017-2018

Nous soussignés **Frank Vidal, Jean-Denis Truong** (Secteur Sciences), **Alain Blajberg, Jean-Philippe Rameau, et Jean Peletier** (Secteur Santé), Responsables du Master de Neurosciences d'Aix-Marseille Université, autorisons :

Nom et Prénom de l'étudiant: ALBARES Pierre
Né(e) le: 05/03/1994 à Marseille

ADRESSE (lisible SVP): 131 Avenue de Luminy, Cité universitaire Luminy
Appartement C167, 75009 Marseille

TEL: 06 18 55 21 12
E-MAIL: preuve.albares@etu.univ-amu.fr

à effectuer les stages dans les laboratoires cités ci-dessous :

STAGE A du 01/12/2017 au 02/03/2018

INTITULÉ DU LABORATOIRE: Institut de Neurosciences de Marseille

ADRESSE:

NOM DU DIRECTEUR: Vilmos JIRSA

NOM ET QUALITÉ DU RESPONSABLE DE STAGE: Emmanuel DAUCÉ

Téléphone:

Adresse e-mail:

SUJET DU TRAVAIL: Computational modelling of visual object tracking in the
monkey - cellular pathway -

STAGE B du 12/03/2018 au 08/06/2018

INTITULÉ DU LABORATOIRE: Institut des Neurosciences de la Timone

ADRESSE: Institut de Neurosciences de la Timone, Faculté de Médecine, 27 Bd Jean

NOM DU DIRECTEUR: Guillaume HASSET

NOM ET QUALITÉ DU RESPONSABLE DE STAGE: Laurent PERRINET

Téléphone: 06 19 17 81 20

Adresse e-mail: laurent.perrinet@unita.amu.fr

SUJET DU TRAVAIL: Optimizing bio-inspired computer vision using saccadic-like eye movements

Stage A: Signature Directeur

Stage B: Signature Directeur

Marseille, le

3) Signature des Responsables
du Master Neurosciences

Stage A: Signature Responsable du Stage **Stage B:** Signature Responsable du Stage

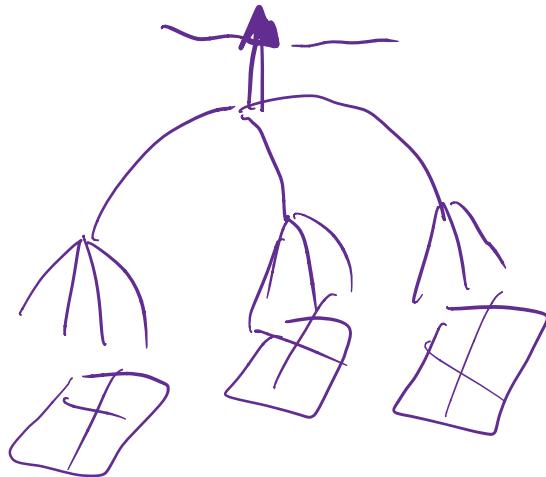
A UNE ATTENTION
Fiche à remplir (2 exemplaires) à renvoyer au Secrétariat du Master (Cours Sciences)

* Nom et Signature du Directeur et du Responsable de stage sans INDISPENSABLES

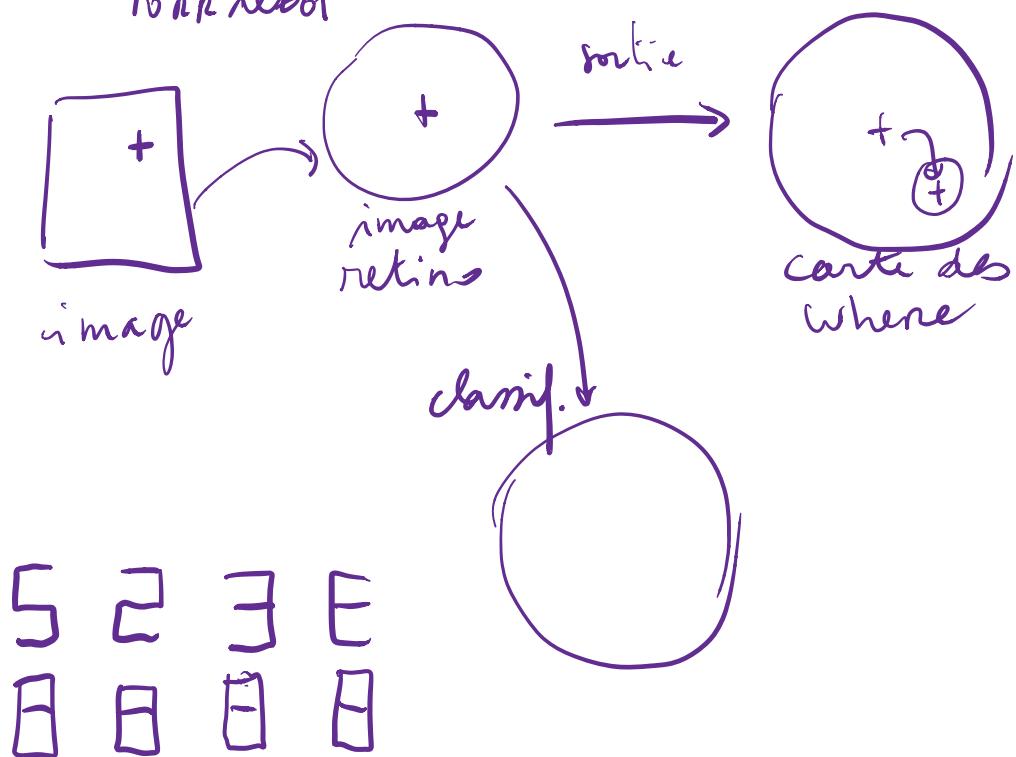
2017-12-22

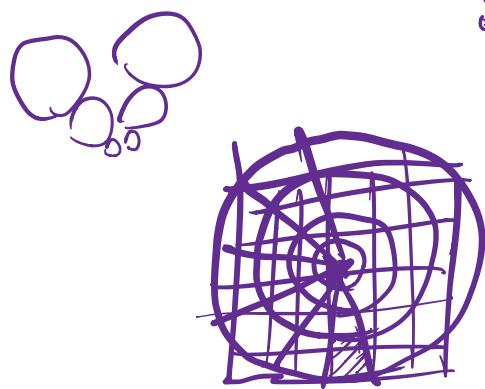
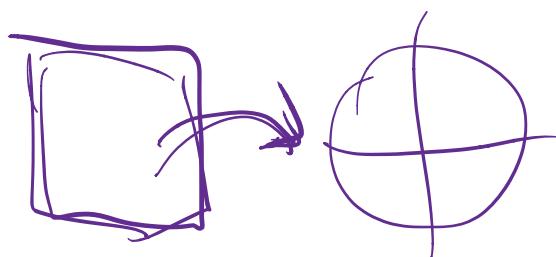
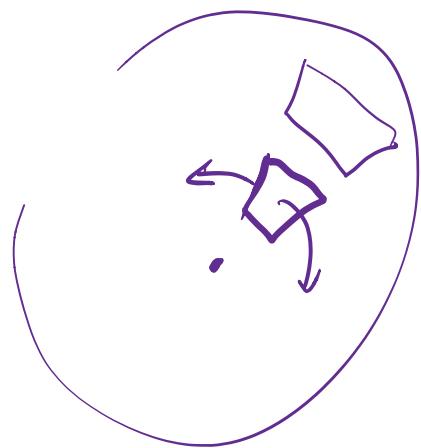
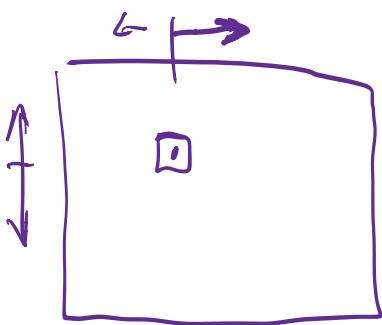
meet-up

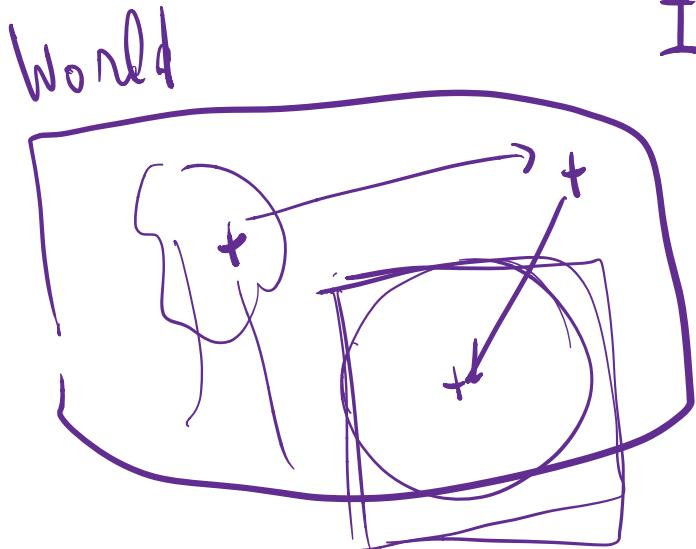
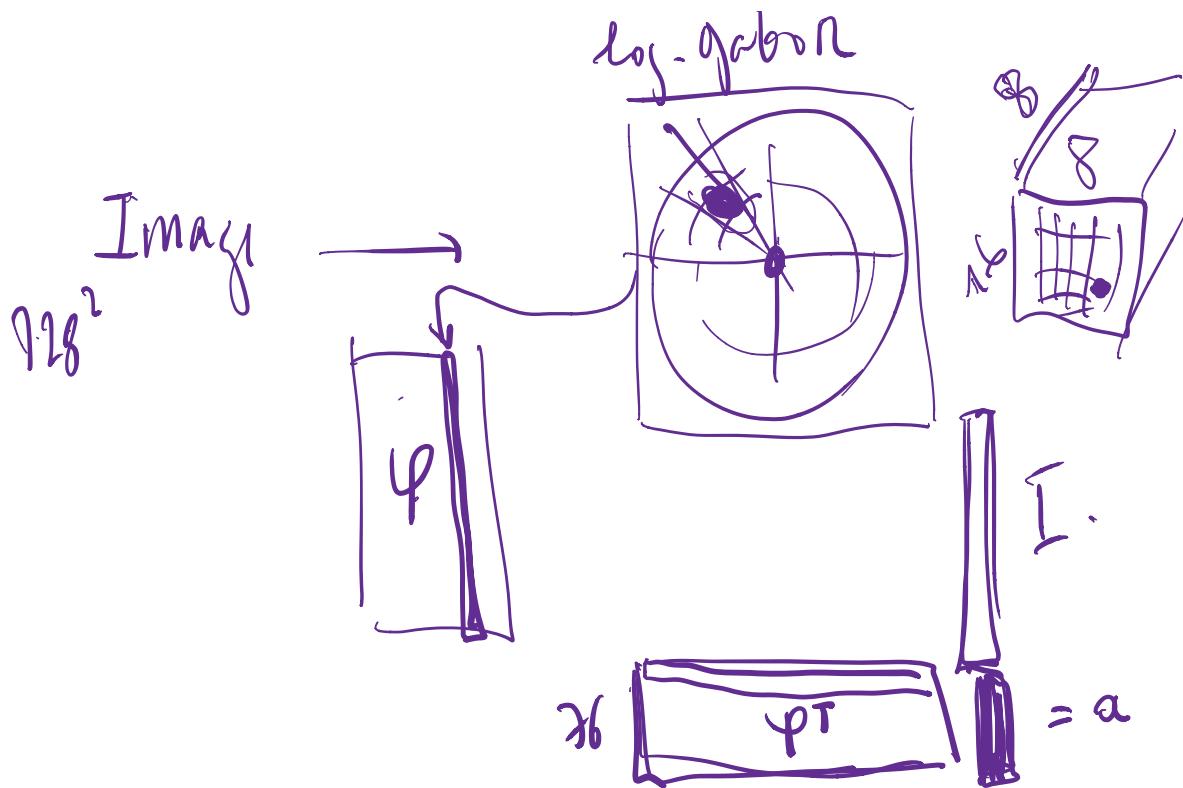
CRONUS



Entrainement supervisé sur la base de
Tonnalber

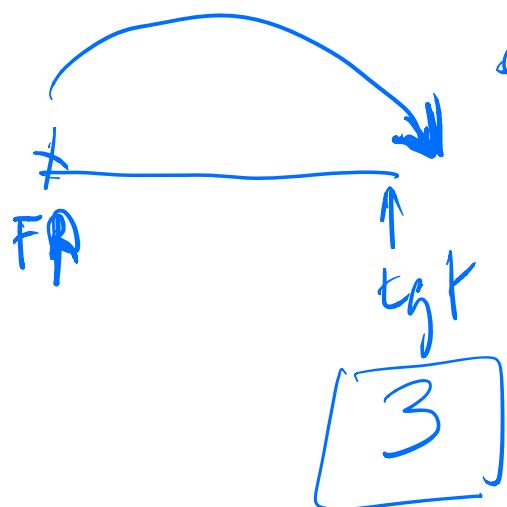






2018-02-16

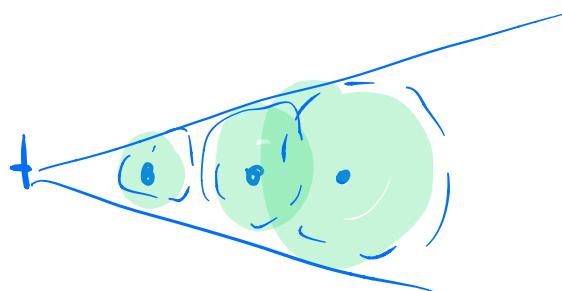
cont



$$L_2 : y = \left(h_\theta(x^i) - y^i \right)^2$$

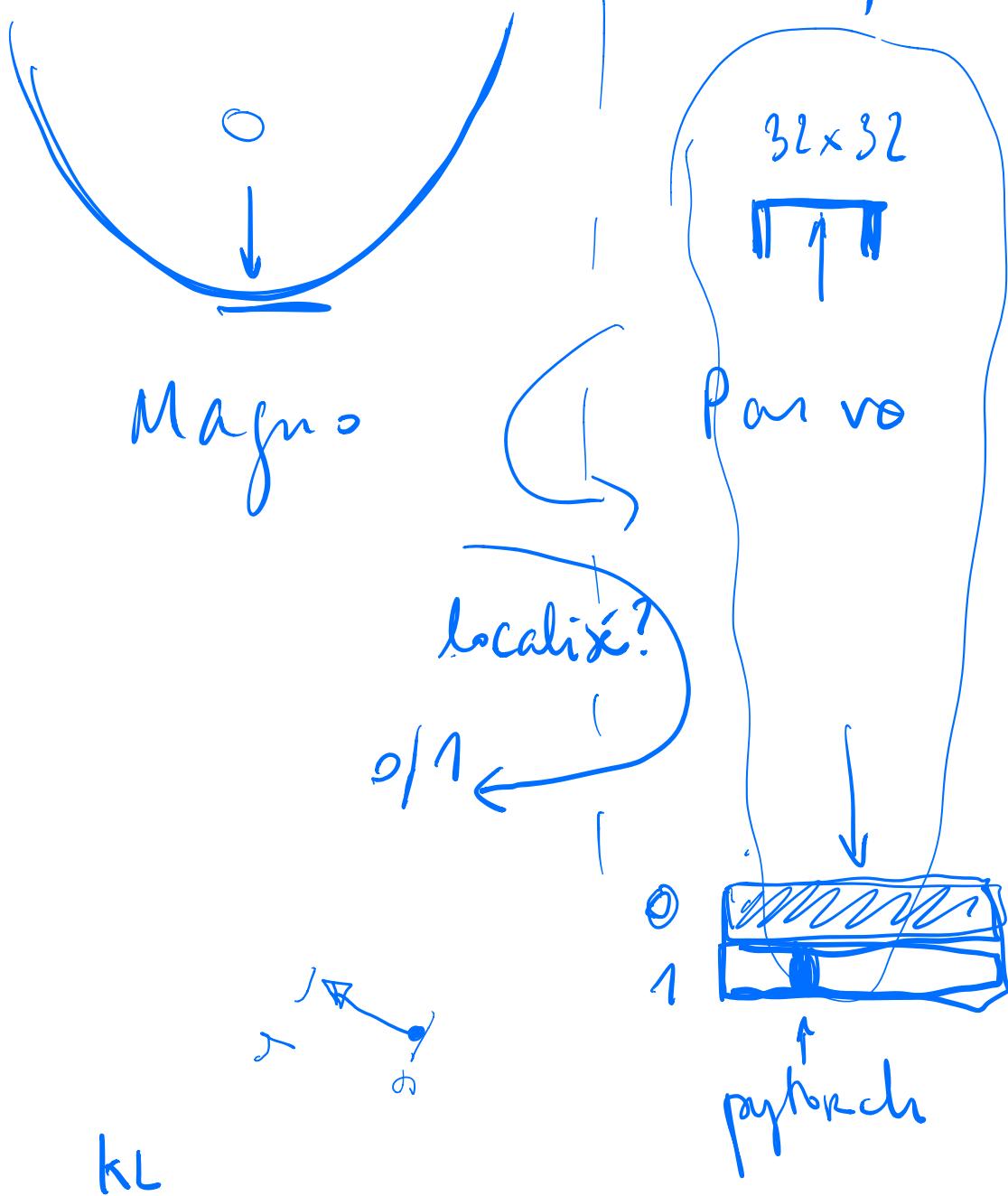
en espace log
 $\log h_\theta(x^i) - \log y^i$

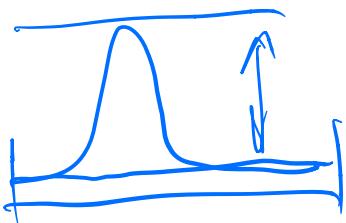
$$\log \frac{h_\theta(x^i)}{y^i}$$



→ bruit
multiplicatif

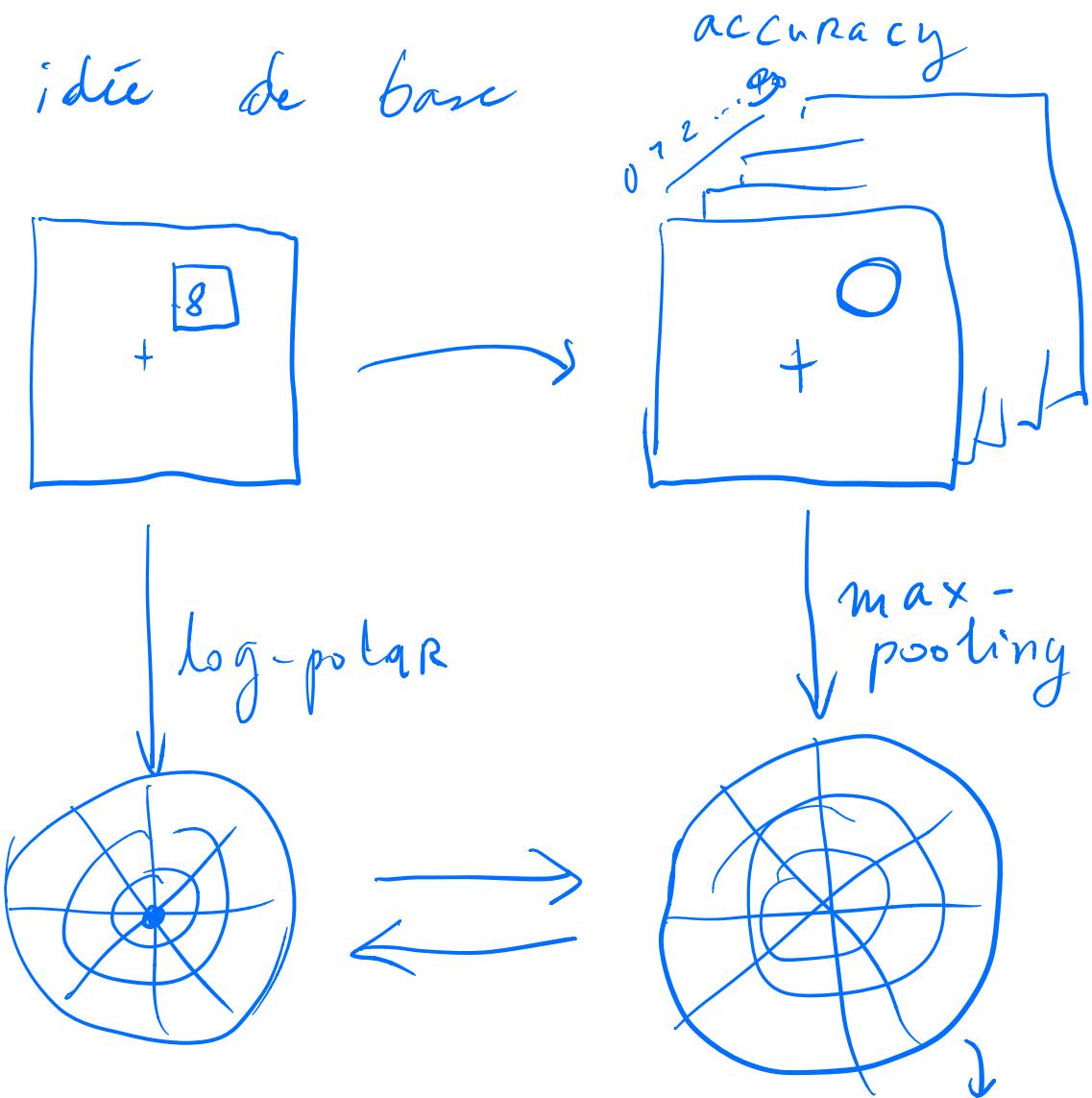
- Arrêter les pants avec l'info du classifieur -
- localisation | classification





• Thierry Antikene
 $\text{LIF} \rightarrow \text{Lis / Lumines}$

- idée de base



pent-on
apprendre une
carte de
Najemnik
2005

prediction de la carte
de localisation de
la 'accuracy'

\Rightarrow saccade = Arg Max_{pos}

↓
OSC?

