# 在好未来AI Lab搞图像 算法是怎样一种体验?

张无名 2018.02.01

### 挑繳

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● BSc: 北京航空航天大学

● MSc: 北京航空航天大学, 法国里昂第一大学

● PhD: 法国里昂中央理工大学

• Publications: PAMI, ICB, ICIP, FG...

• Research interests: 图像处理,机器学习,生物识别

## 图像算法

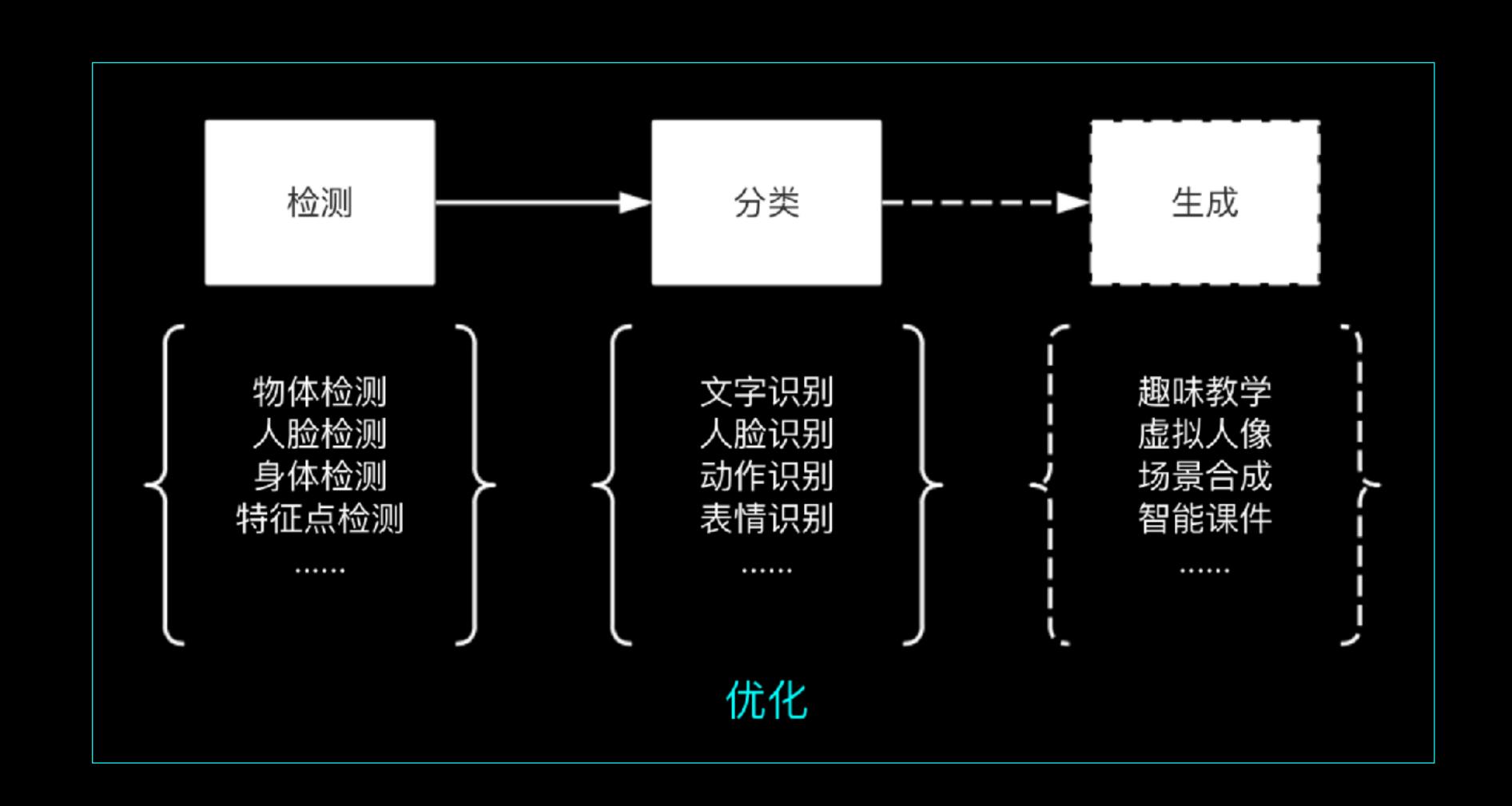


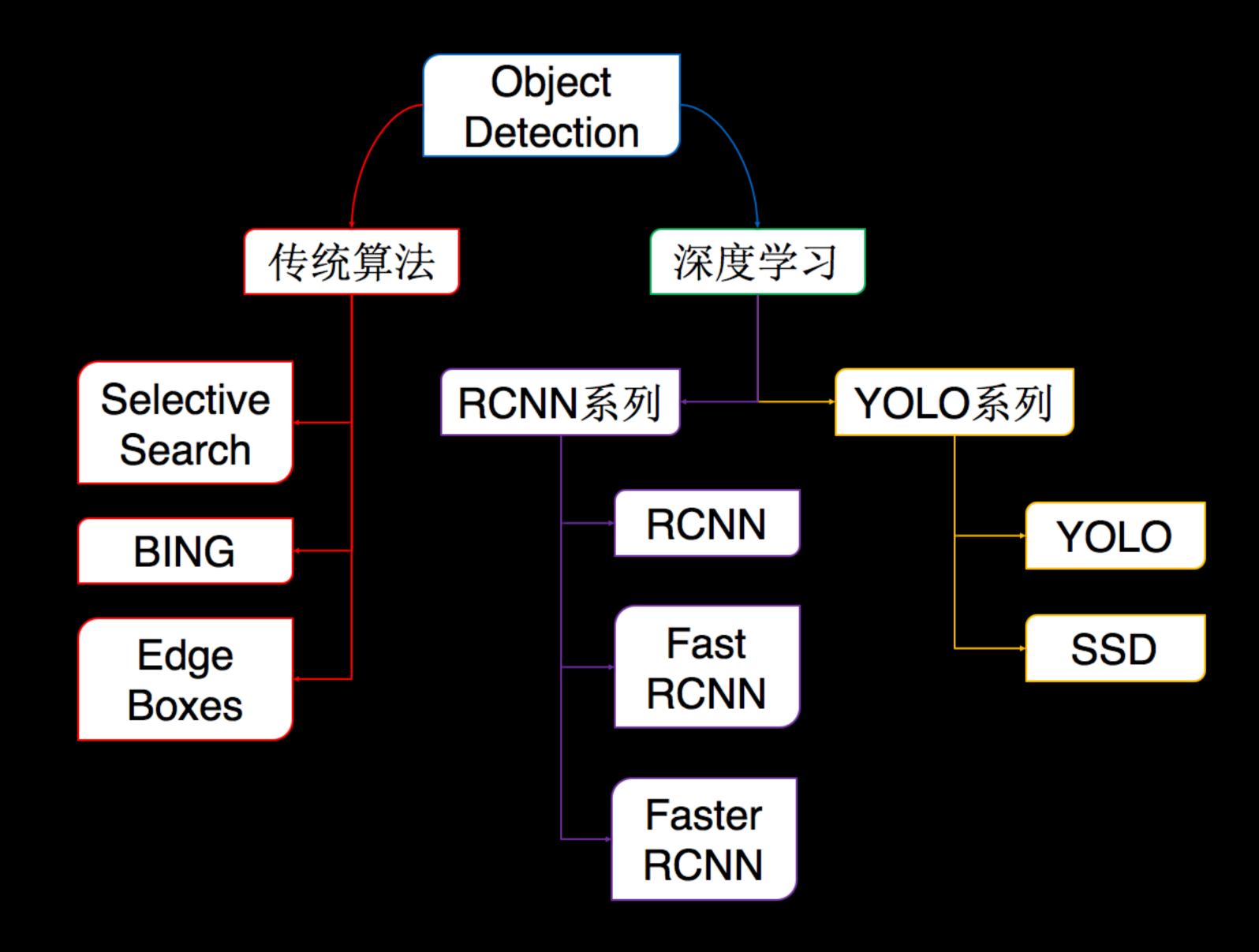


传统ML

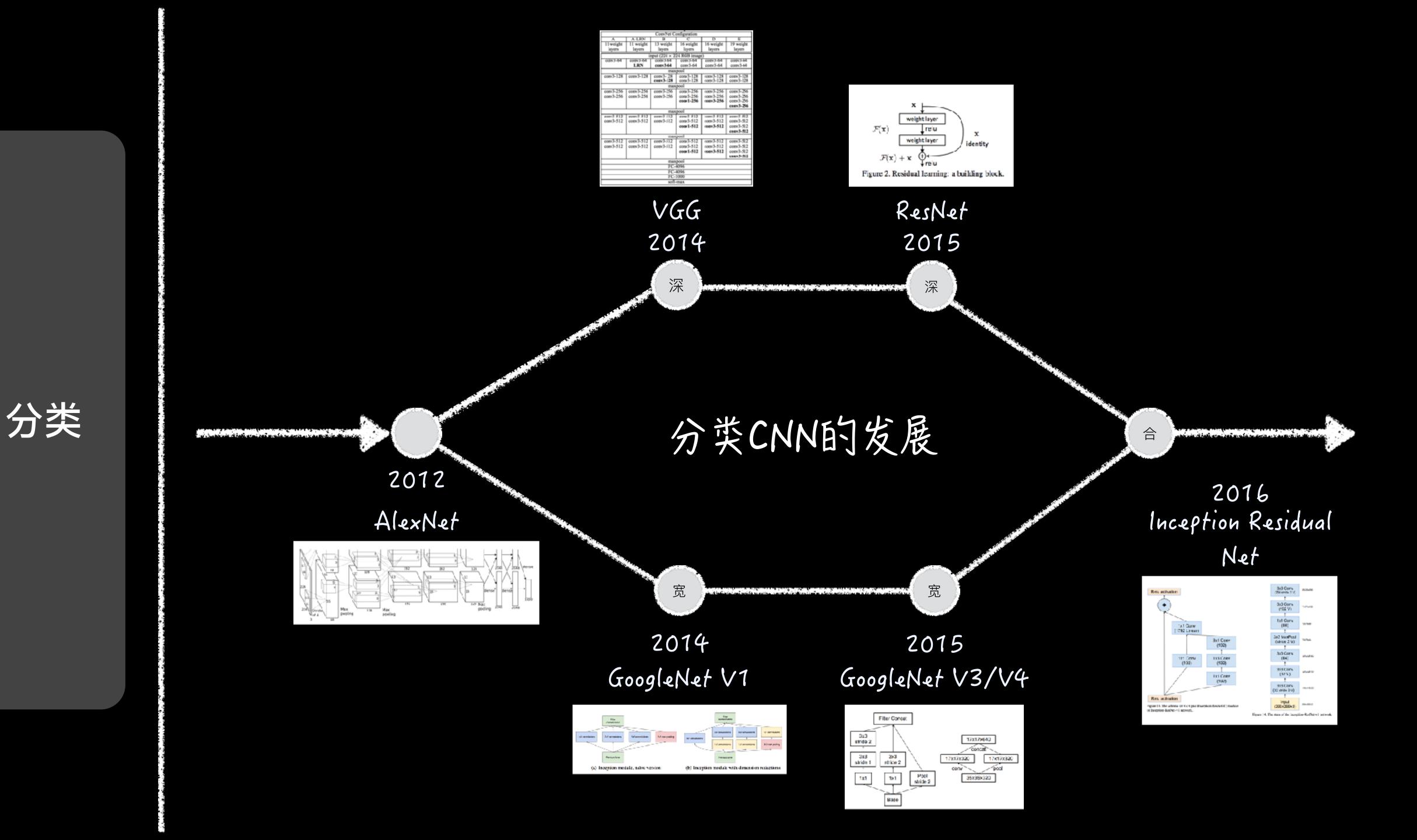
DL

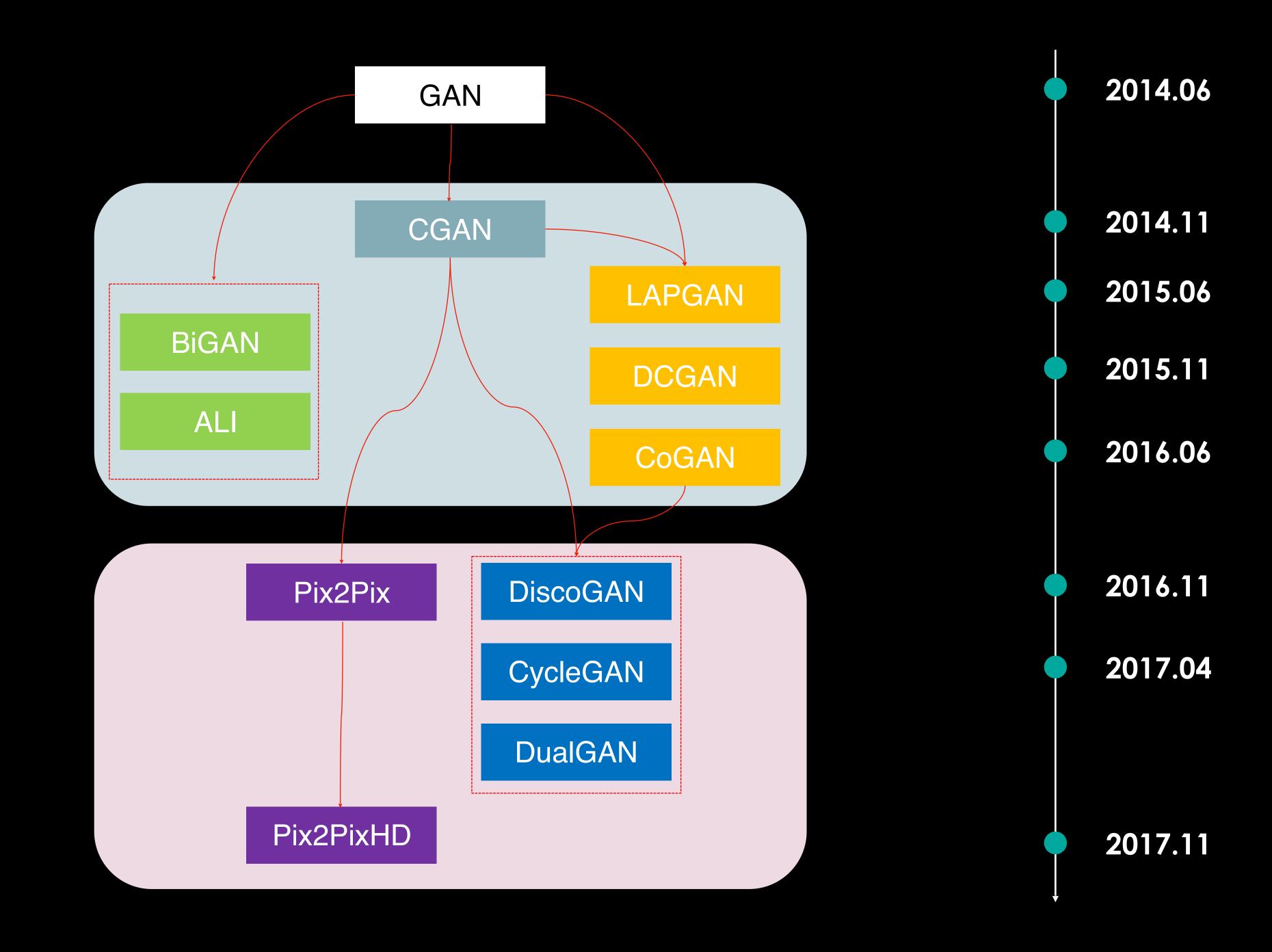
## 图像算法





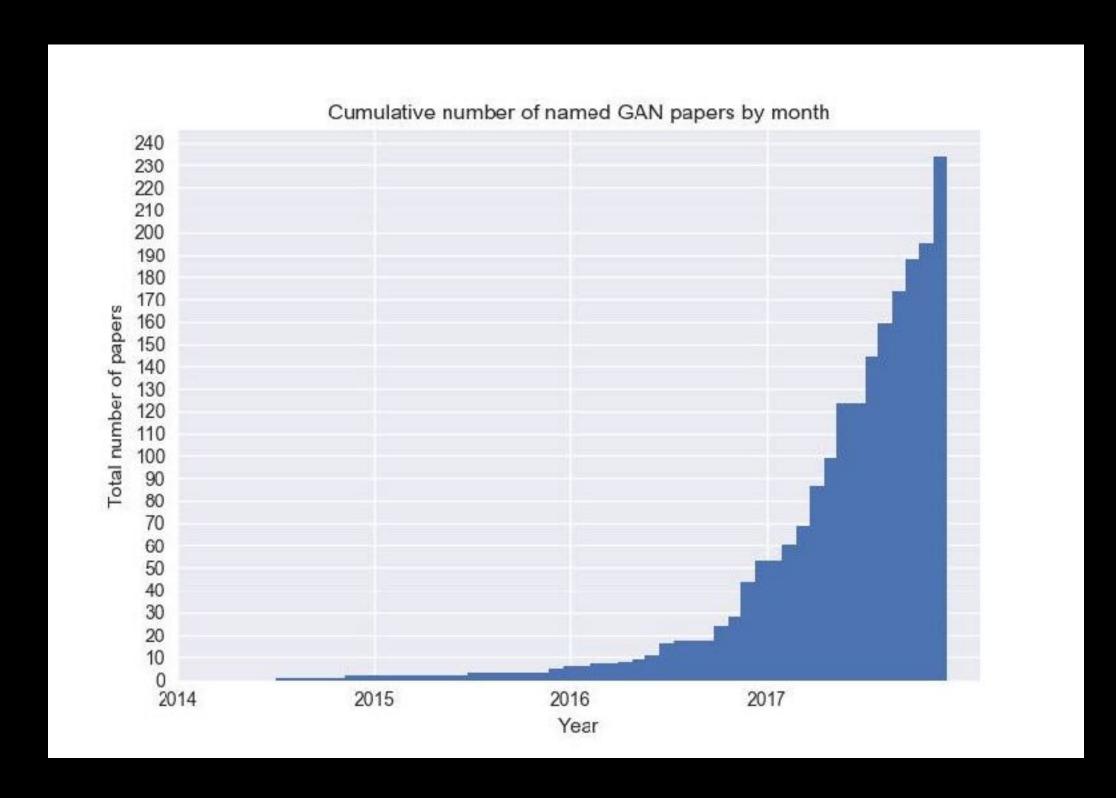
检测

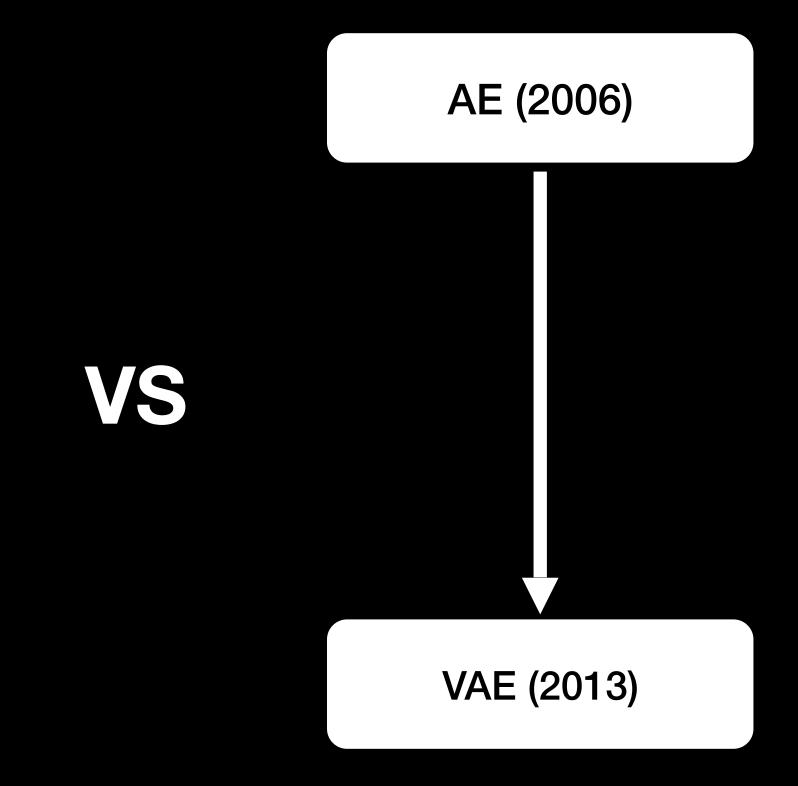


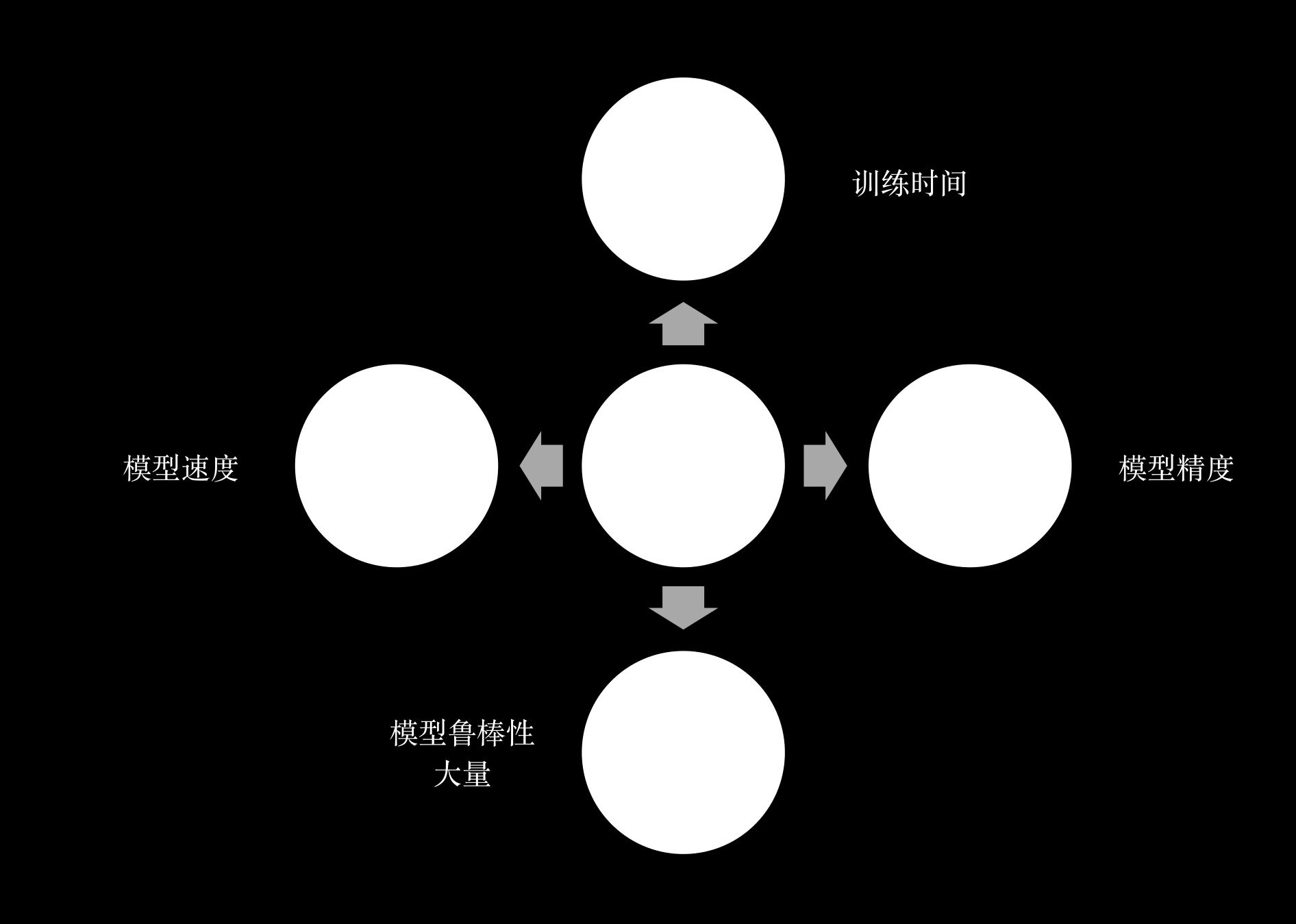


生成









优化

#### 处理速度

ResNet-50 on NVIDIA Tesla P100: ~230 images/sec

#### 迭代次数

100 epochs on ImageNet 1 epoch = 1.2M images

#### 训练时间

120M images 230 images/sec = 6 天

优化

分布式训练系统

1 小时

Facebook

### Al Lab: Why?

#### 提高人效

- AI可以处理大量的重复工作
- 解放老师的劳动力

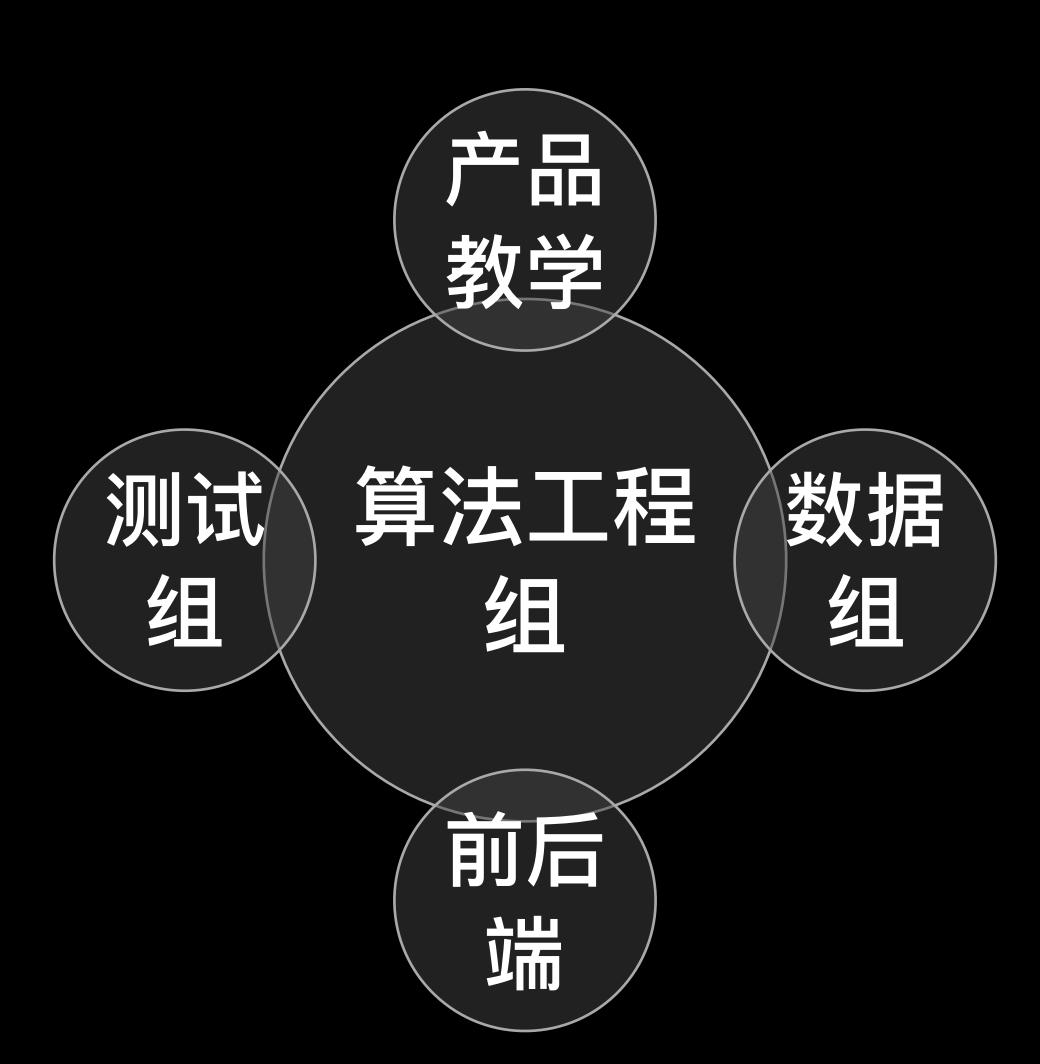
#### 量化标准

- 客观、直观的学生评测
- 有针对性的教学建议

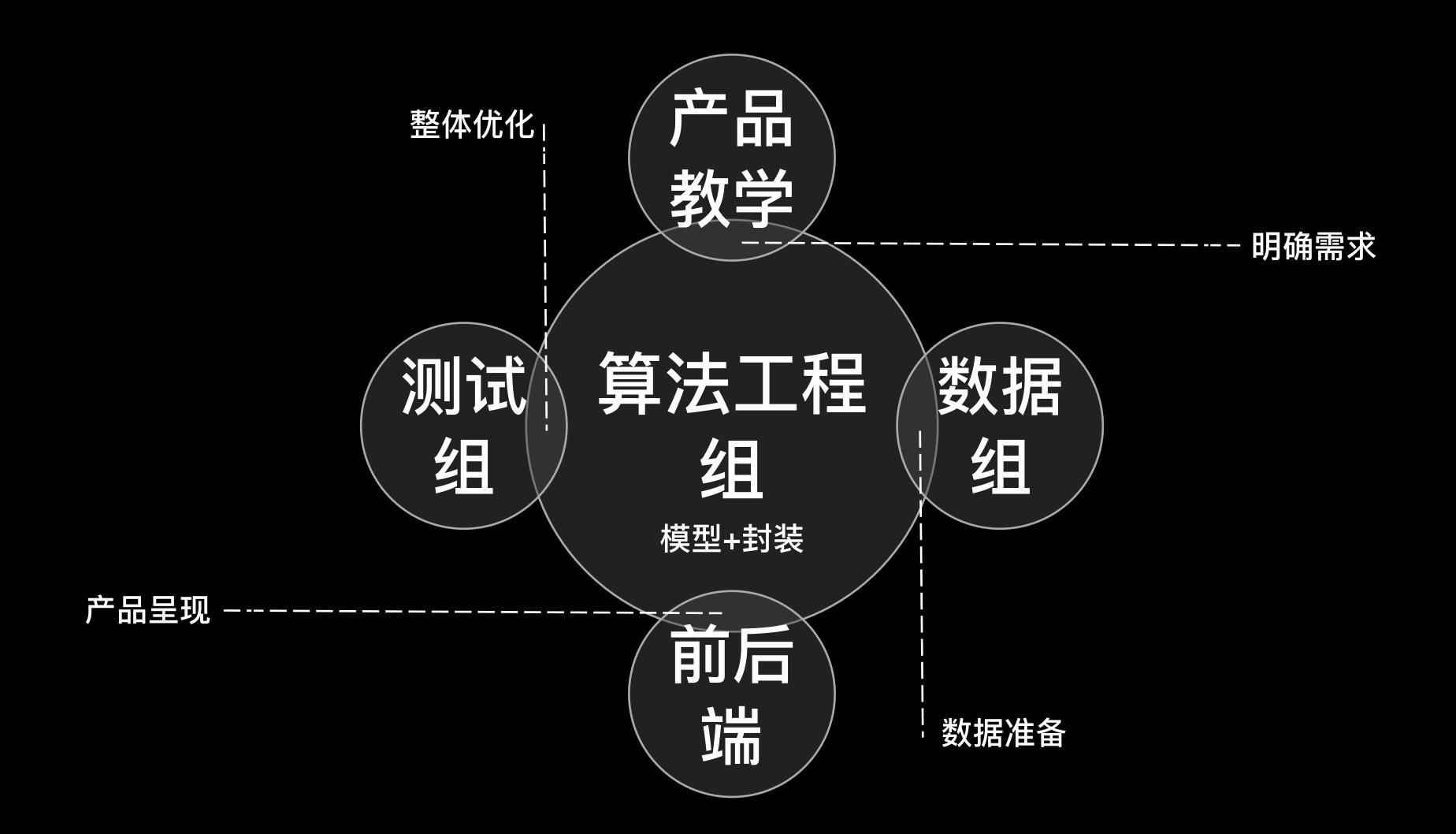
#### 更多关注

- 真正的一视同仁
- 趣味性+创造力

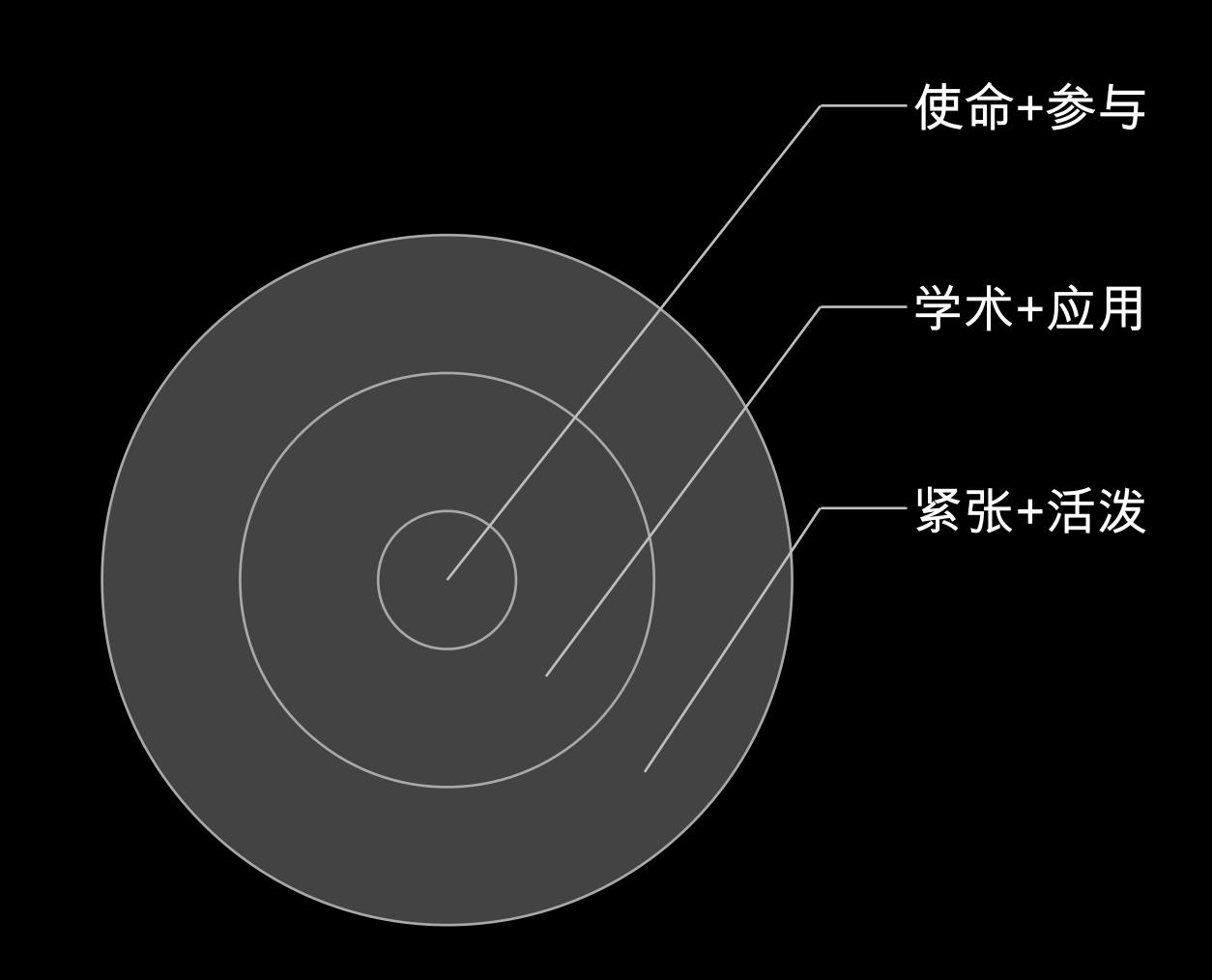
### Al Lab: Who?



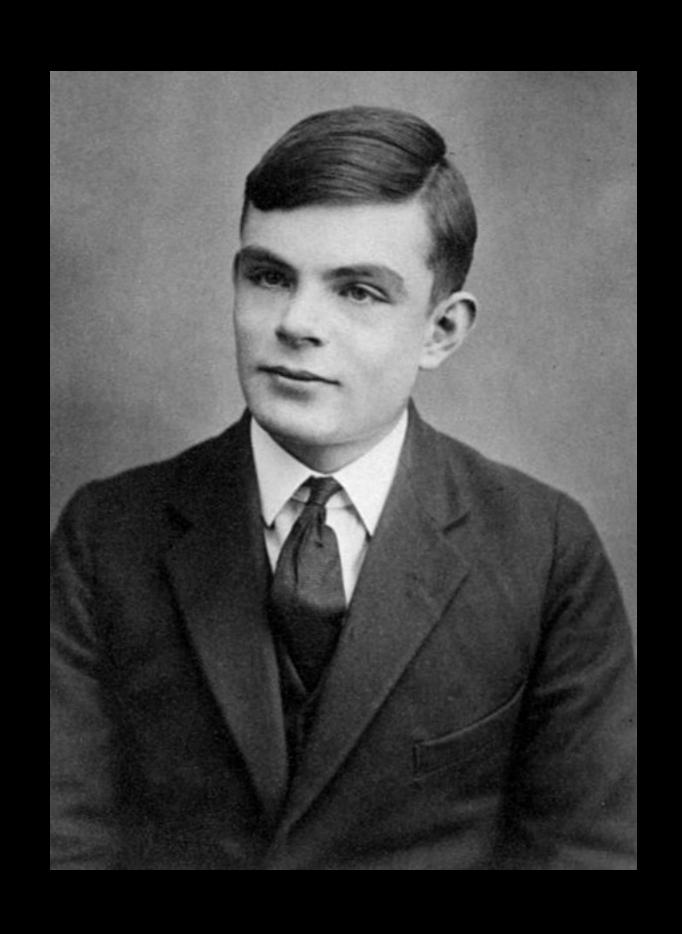
### Al Lab: How?



### 体验



## 鸡汤的分割线



"We can only see a short distance ahead, but we can see plenty there that needs to be done."

— Alan Turing

## 鸡汤的分割线



"You mustn't be afraid to dream a little bigger, darling."

— Eames

## Thanks