

朱玥琰



- 目 前 进 展
- 遇 到 问 题

- 拟解决 方法
- 后 续 安 排



目 前 进 展

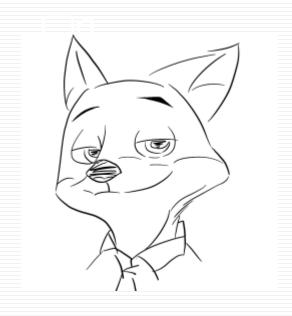
#### Automatic Image Colorization (全自动)

#### User Guided Image Colorization (用户交互)

line sketch

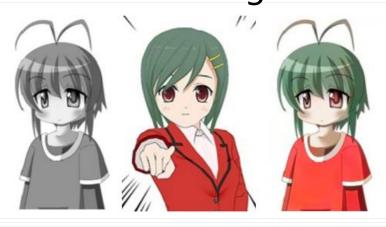


reference img



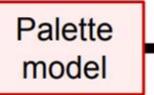




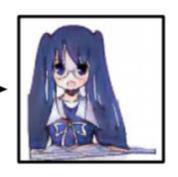


测试"输入"





palette





#### **Automatic Image Colorization**



Learning Representations for Automatic Colorization, ECCV,2016

VGG-16

**User Guided Image Colorization** 

Bicycle-GAN



Auto-painter: Cartoon Image Generation from Sketch by Using Conditional Generative Adversarial Networks

Pix2Pix



Style Transfer for Anime Sketches with Enhanced Residual U-net and Auxiliary Classifier GAN, ACPR,2017

Residual U-net + AC-GAN

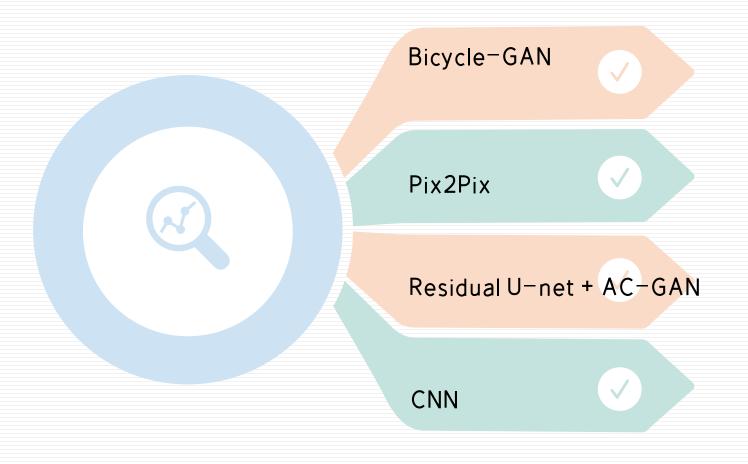
Comicolorization: Semi-Automatic Manga Colorization, SIGGRAPH Asia, 2017

CNN



遇到问题





成对数据集

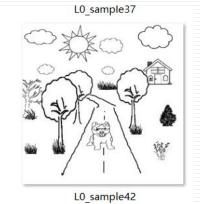
线稿+彩色



#### Sketchy scene

# L0\_sample36 10 cample46 227



















232



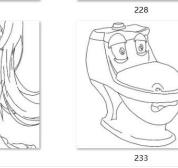








线稿数据库

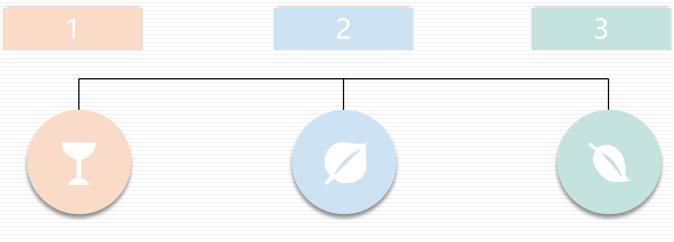




拟 解 决 方 法



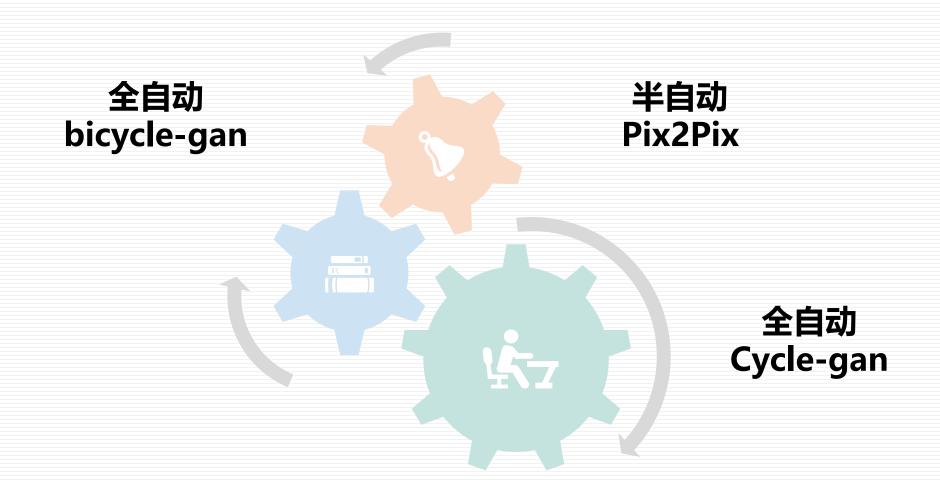
彩色动漫数据库自动上色不使用成对数据集



manga109
nico seiga
pixiv dataset
Danburoo

借助已完成的项目, 将线稿数据库输入, 批量生成彩色动漫 数据库 Cycle-gan? 训练难度大, 不易收敛 "风格" 数据集分类







后 续 安 排



