

# 多智能体协作电影制作

- 构建虚拟电影片场：**15**个场景，**20**种动作，**65**个站位，**165**个静态镜头，**105**个动态镜头
- 构建智能体：基于大语言模型和专业知识库驱动**导演、编剧、演员和摄像**
- 模拟人类工作流程：**场景规划、剧本编写、镜头确定**



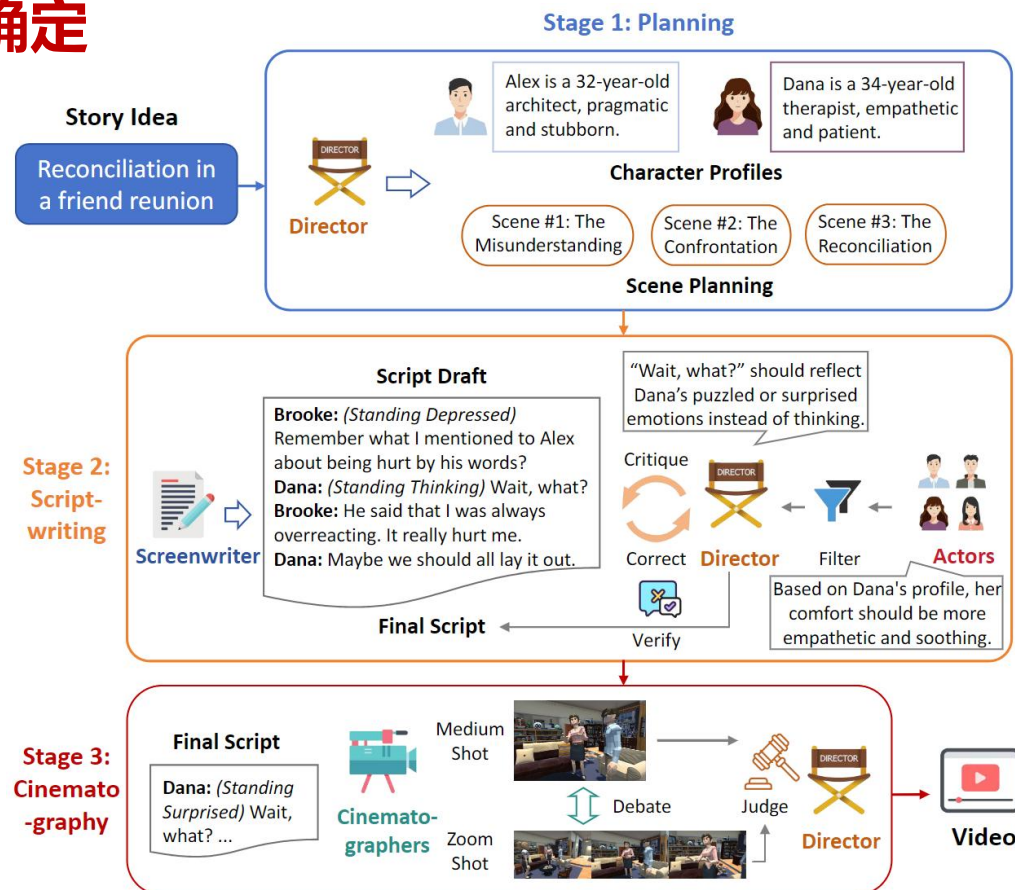
- 📍 Actor Positions
- ➔ Actor Movement
- 📷 Cameras
  - 1 Close-up Shot of Position B
  - 2 Medium Shot of Position B
  - 3 Full Shot of Position B
  - 4 Pan Shot following Actor Movement (from A to D)
- ➡ Camera Movement

## Script Lines

Brooke: Remember what I mentioned to Alex about being hurt by his words?  
**Dana: Wait, what?**  
 Brooke: He said that I was always overreacting. It really hurt me.

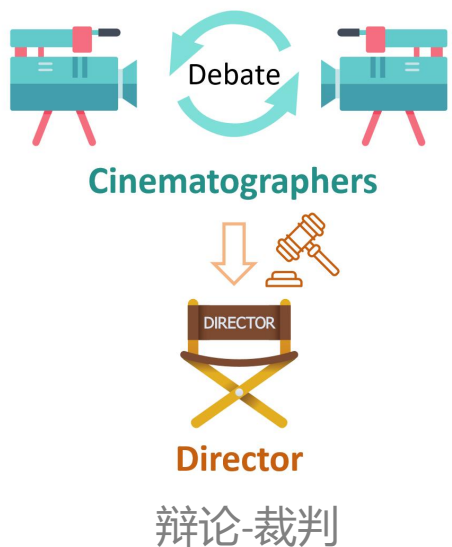
Annotate Actions

## Action Space (20 actions)



# 多智能体协作电影制作

- 提出两种**多智能体合作机制**：辩论-裁判、批评-修正-验证
- 多智能体的反馈与修改提升**剧情的连贯性、人物动作的准确性、镜头的合理性**



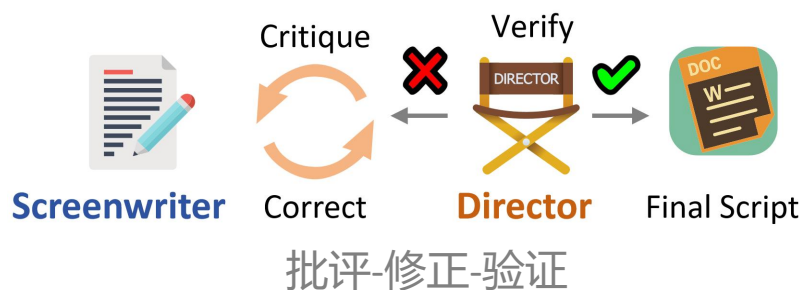
修改前

**Scene #1 (Roadside)**  
**Emma:** I'd love that. Where should we meet?  
**Alex:** (Standing suggest) There's a cafe just around the corner from here. How about tomorrow at 3?  
**Emma:** (Standing happy) Perfect! See you tomorrow.  
**Scene #2 (In Alex's house)**  
**Alex:** (Sit down) Welcome to our humble abode! Make yourself comfortable.

修改后

**Scene #1 (Roadside)**  
**Emma:** I'd love that. Where should we meet?  
**Alex:** (Standing thinking) How about at my place? Tomorrow at 3?  
**Emma:** (Standing happy) Perfect! See you tomorrow.  
**Scene #2 (In Alex's house)**  
**Alex:** (Sit down) Welcome to our humble abode! Make yourself comfortable.

修正了不存在的动作Standing suggest, 调整回复和下一幕Alex's house一致



选择Follow Shot,  
说话者背对镜头



选择Mid Shot,  
说话者面对镜头  
且反映肢体动作