# 消息定义

## 教师互动切换消息

```
{
  id: '1498888033381', # 使用时间戳
  parentID: null, # 父消息ID
  type: 'InteractiveSwitch', # 消息类型
  status: 'board' # 直播状态 'desktop'; 'board'
}
```

## 学生响应消息

```
{
  id: '1498890637474', # 使用时间戳
  parentID: '1498888033381' # 父消息ID
  type: 'InteractiveSwitchResponse', # 消息类型
  status: 'read' # 消息已读
}
```

# 消息发送流程

## 教师端

```
# 当前互动成员
all_receivers = ['Tom', 'Lucy', 'Lily']
latestMsg = null

# 设置消息监听
when receive a response
  # 检查自己是否发送过消息
  next if latestMsg is null
  # 检查是否最新消息的响应
  next unless response.parentID == latestMsg.id
  # 最新消息删除本次响应者
  latestMsg.receivers.delete(response.account)

# 生成切换消息
latestMsg = instance a message
# 发送切换消息给所有人
send msg to all
# 互动切换
switch interactive status
currentMsg = latestMsg
# 定时重发消息
loop until currentMsg.receivers.blank?
  break if currentMsg != latestMsg
  loop receiver in currentMsg.receivers
    # 如果接受者已经退出互动直接删除
    currentMsg.receivers.delete(receiver) && next unless all_receivers include rec
eiver
    # 单独发送消息
    send currentMsg to receiver
```

## 学生端

```
latestMsgID = null
currentStatus = null

# 设置消息监听
when receive a message
  latestMsgID ||= message
  responseMsg = instance a response message
  send responseMsg to teacher
  # 不是最新消息不处理
  next unless message.id > latestMsgID.id
  # 如果当前状态和收到的消息状态一致也不需要处理
  next if currentStatus == message.status
  # 切换直播画面
  switch interactive
  # 更新本地直播状态
  update currentStatus from message
```