

## aSee Studio function introduction

**【Structure management】** Project management function, experiment, test, and tested variables are clear at a glance

**【Experimental design】** Quick addition, fixed duration, button, mouse click, flexible and diverse switching methods

**【Calibration scheme】** 3-point, 5-point, 9-point calibration optional, color adjustable

**【Experiment recording】** Image, video, screen recording and other material recording

**【Split screen observation】** The main test screen monitors the operation on the test screen in real time and superimposes the gaze points to keep abreast of the experimental progress

**【Data support】** Format csv, providing 20 items of data information such as millisecond-level timestamp, pixel-level fixation point coordinates, pupil diameter, etc.

**【Visualization results】** Process playback, trajectory map, heat map, intuitively show eye movement patterns

**【AOI delineation and statistics】** AOI (area of interest) can be used to quickly delineate the analysis object, reduce the data set to be analyzed, and quickly obtain statistical results.

# Engineering Management

The screenshot displays the 'aSeeStudio' Engineering Management module. The interface is divided into several sections:

- Top Navigation:** Includes tabs for '工程信息' (Project Info), '实验设计' (Experiment Design), '实验录制' (Experiment Recording), '记录管理' (Record Management), '可视化' (Visualization), '统计报表' (Statistics Reports), and '数据导出' (Data Export).
- Project Overview:** Shows 'aSeePro20' and 'Creator-Guest' with a '工程管理' (Engineering Management) button.
- Experiment List (左侧):** A table with columns for '名称' (Name), '参与者人数' (Participant Count), and '记录数量' (Record Count). It lists 'Test1' and 'File'.
- Record List (右侧):** A detailed table of test records with columns: '名称' (Name), '参与者' (Participant), '检查得分' (Check Score), '采样率' (Sampling Rate), '记录采样率' (Record Sampling Rate), '数据有效率' (Data Effectiveness), '开始' (Start), and '结束' (End). It lists 20 records for 'User1' with various parameters like 'left100right100' and 'left50right95'.
- Participant Management (底部):** Two sections for '参与者属性' (Participant Attributes) and '参与者列表' (Participant List), each with a '+ 新建' (New) button.

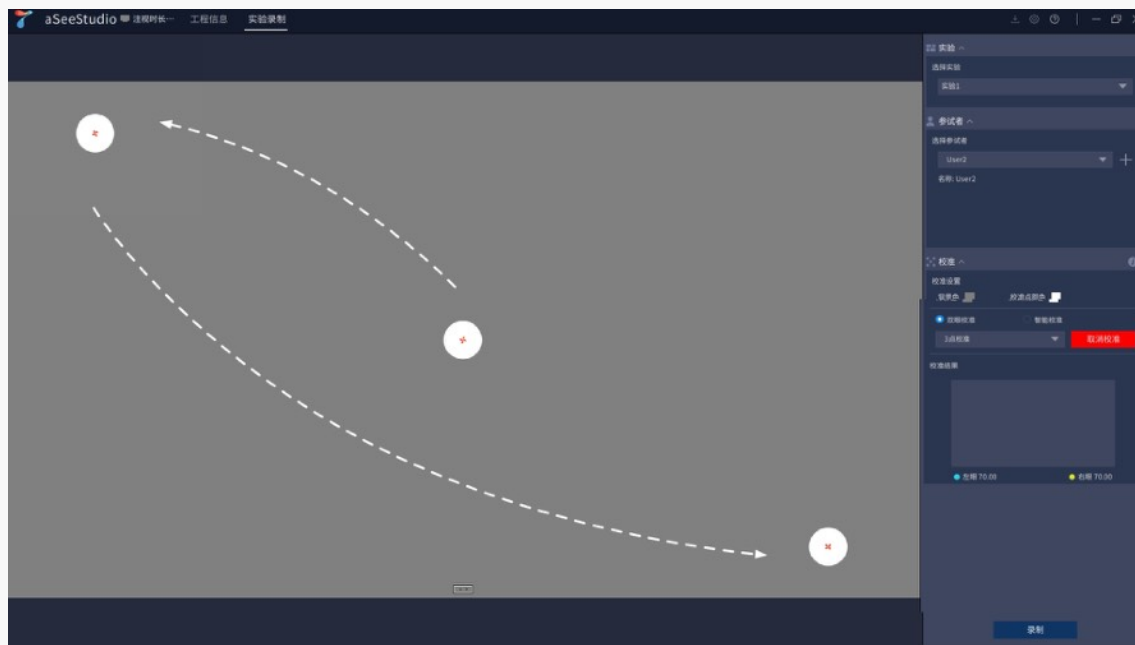
- ✓ The project management module conveniently manages the structure and basic data of the entire project
- ✓ Managed according to four sub-modules: Experiment List, Record List, Participant Attribute, and Participant List

# Experimental design



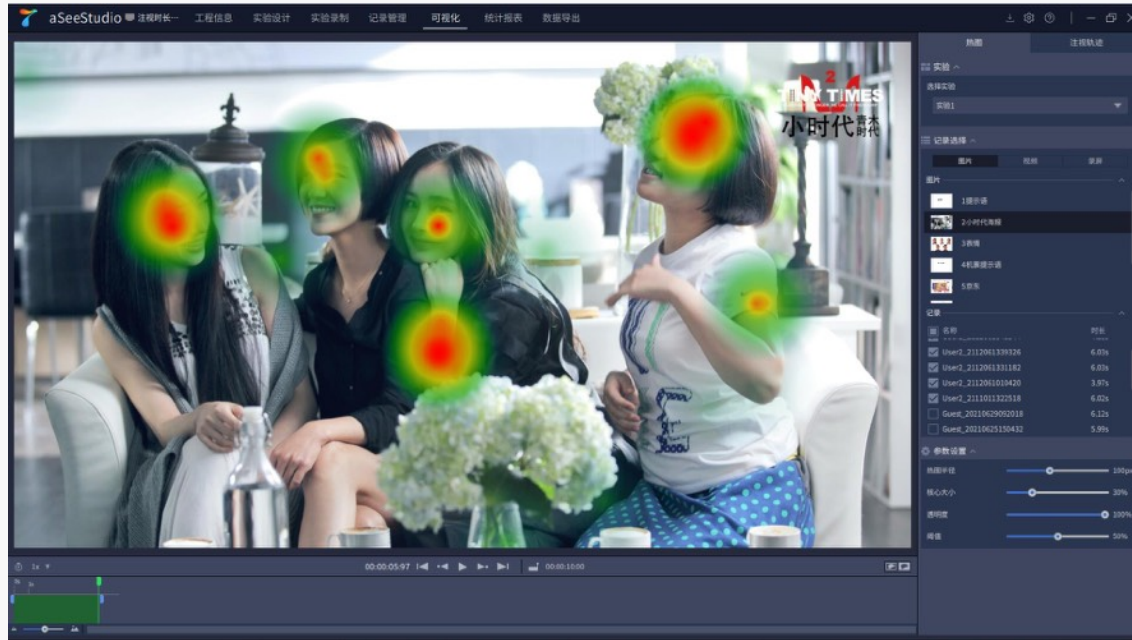
- ✓ Experiment design module, quickly realize the arrangement of experimental stimulation materials and switching methods
- ✓ One-click preview of the design, the results are as expected, and then start the experiment

# Calibration



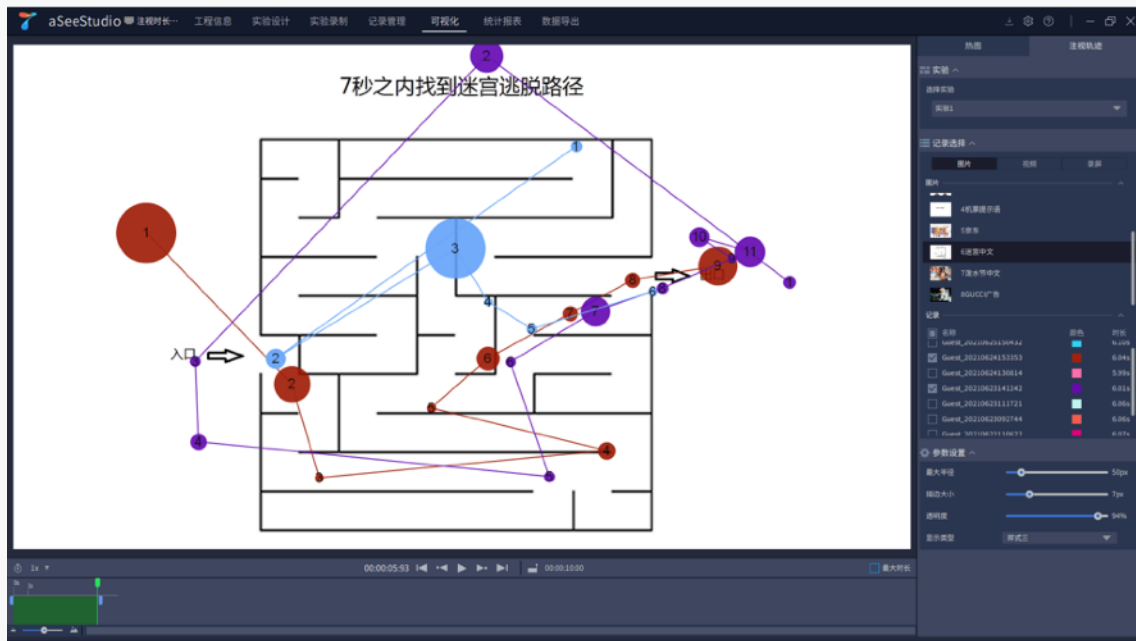
- ✓ A variety of calibration schemes, you can complete the calibration by looking at each point in turn
- ✓ Reflects the calibration quality of each point and the overall calibration score

# Gaze heatmap



- ✓ There are two modes of chroma heatmap (the warmer the color, the longer the stare) and the perspective heatmap (the brighter the more the stare).
- ✓ The sliding window for heatmap overlay can be set, and the radius and transparency of heatmap display can be set
- ✓ Multi-person heatmap stacking can be performed, and grouping stacking can be performed according to the tested variables

# Gaze Graph



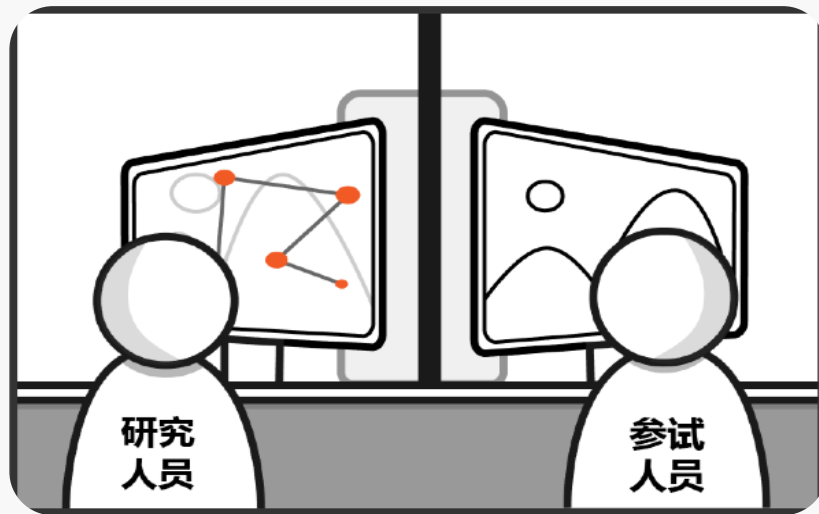
- ✓ Intuitively reflect gaze sequence (numbers in circles), gaze duration (circle radius)
- ✓ You can set the sliding window of the track graph overlay, and you can set the color, outline, and transparency of the track graph display.
- ✓ Display of multi-person trajectories

# AOI drawing and statistics



- ✓ Drawing AOI with various graphics tools such as rectangle, circle and polygon
- ✓ One-click statistics of gaze times, gaze duration, rewatch times and other indicators
- ✓ More than 20 statistical indicators, support exporting into tabular data

## Experimental observation



By setting the dual-screen display and expanding the desktop, and superimposing the gaze points, you can observe the operation status and eye movement trajectory of the test participant's computer in real time on the main test screen.



## aSee Studio Advantages

- Simple interaction logic, 5 minutes learning cost
- Support real-time monitoring of user gaze
- Convenient experiment arrangement and management, supporting drag-and-drop and batch addition of experimental materials
- A variety of calibration schemes, suitable for different groups of people such as the elderly, infants, color blindness, etc.
- One-click statistics of classic eye movement indicators
- One-click generation of eye movement evaluation report and printing
- Support eye movement analysis indicator customization

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# Engineering Management

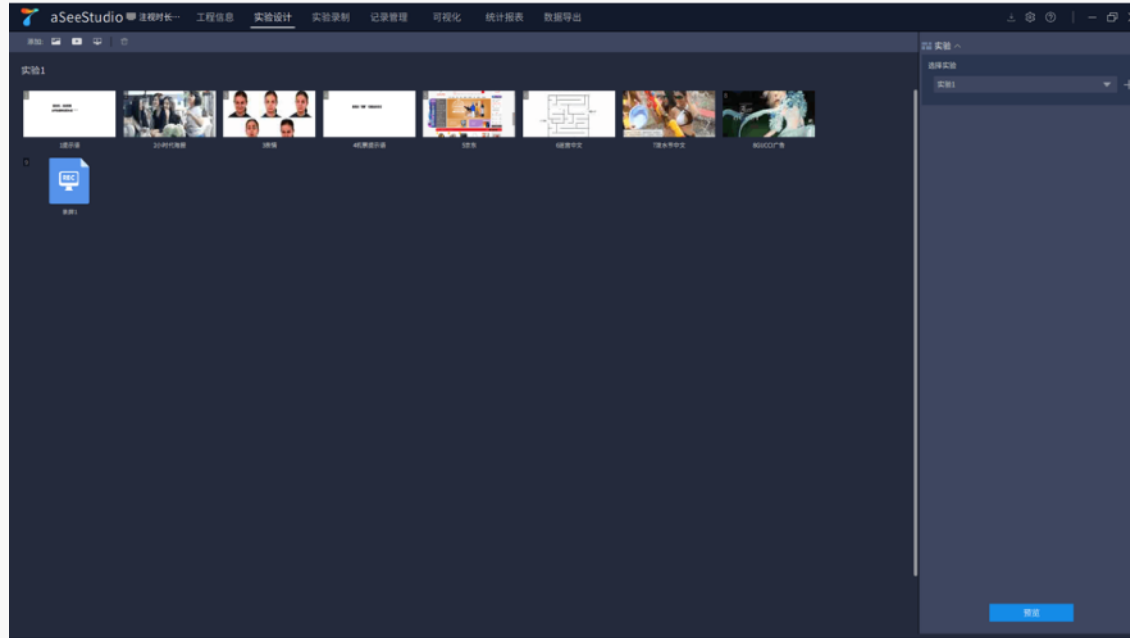
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- Top Navigation:** Includes tabs for '工程信息' (Project Info), '实验设计' (Experiment Design), '实验录制' (Experiment Recording), '记录管理' (Record Management), '可视化' (Visualization), '统计报表' (Statistics Reports), and '数据导出' (Data Export).
- Left Panel:** Shows '实验列表' (Experiment List) with a tree view containing 'Test1' and 'File'. It includes filters for '名称' (Name), '测试人数' (Number of Testers), and '记录数量' (Record Count).
- Main Table:** A table titled '记录列表' (Record List) with columns: '名称' (Name), '测试者' (Tester), '检查得分' (Check Score), '采样率' (Sampling Rate), '记录采样率' (Record Sampling Rate), '数据有效率' (Data Effectiveness), '开始' (Start), and '结束' (End). The table contains 18 rows of test data.
- Bottom Panels:** Two panels for '参与者属性' (Participant Attributes) and '参与者列表' (Participant List), each with a '+ 新建' (New) button.

名称	测试者	检查得分	采样率	记录采样率	数据有效率	开始	结束
User1_201120130204	User1	left:right:100	150Hz	140Hz	87.81%	00:00:21.233	2021/11/23 13:50:28
User1_201120130206	User1	left:right:100	140Hz	140Hz	76.25%	00:00:05.431	2021/11/23 13:50:20
User1_201120130003	User1	left:right:100	130Hz	140Hz	86.07%	00:00:06.005	2021/11/23 13:50:06
User1_2011201220097	User1	left:right:100	130Hz	140Hz	79.06%	00:00:19.033	2021/11/23 12:28:09
User1_2011201225406	User1	left:right:100	130Hz	140Hz	73.58%	00:00:12.168	2021/11/23 12:25:40
User1_2011201219457	User1	left:right:100	130Hz	140Hz	95.66%	00:00:25.406	2021/11/23 12:23:45
User1_2011201439465	User1	left:right:100	250Hz	250Hz	99.20%	00:00:18.333	2021/11/22 14:39:40
User1_2011201437492	User1	left:right:100	250Hz	250Hz	97.74%	00:00:18.366	2021/11/22 14:37:49
User1_2011201435528	User1	left:right:95	250Hz	250Hz	99.61%	00:00:12.231	2021/11/22 14:35:52
User1_2011201433358	User1	left:right:87	250Hz	250Hz	100.00%	00:00:06.600	2021/11/22 14:33:55
User1_2011201434530	User1	left:right:87	250Hz	250Hz	97.99%	00:00:25.568	2021/11/22 14:34:53
User1_2011201433326	User1	left:right:96	190Hz	250Hz	98.62%	00:00:17.566	2021/11/22 14:33:26
User1_2011301219084	User1	left:right:79	70Hz	140Hz	65.50%	00:00:08.333	2021/11/16 12:19:08
User1_2011301139562	User1	left:right:79	97Hz	140Hz	44.82%	00:00:24.300	2021/11/16 11:39:58
User1_2011301112009	User1	left:right:79	100Hz	140Hz	97.06%	00:00:07.131	2021/11/16 11:31:20
User1_2011081046333	User1	left:right:100	130Hz	140Hz	96.62%	00:00:09.800	2021/11/08 10:46:33
User1_2011081003074	User1	left:right:100	130Hz	140Hz	46.29%	00:00:29.133	2021/11/08 11:00:37
User1_2011081027081	User1	left:right:100	130Hz	140Hz	93.05%	00:00:20.366	2021/11/08 10:27:08

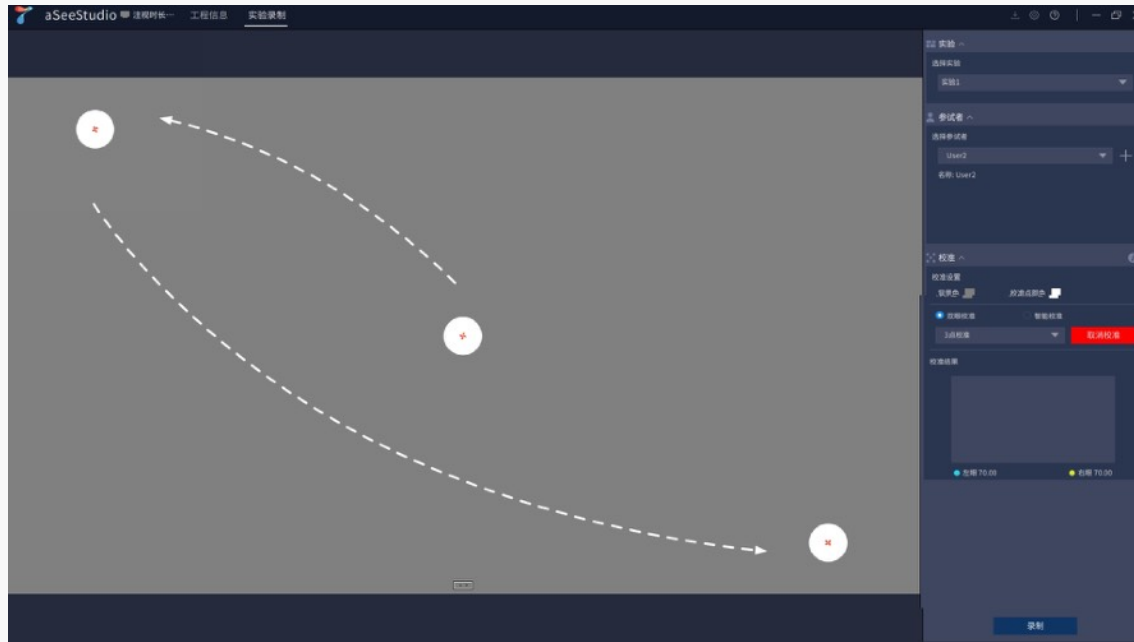
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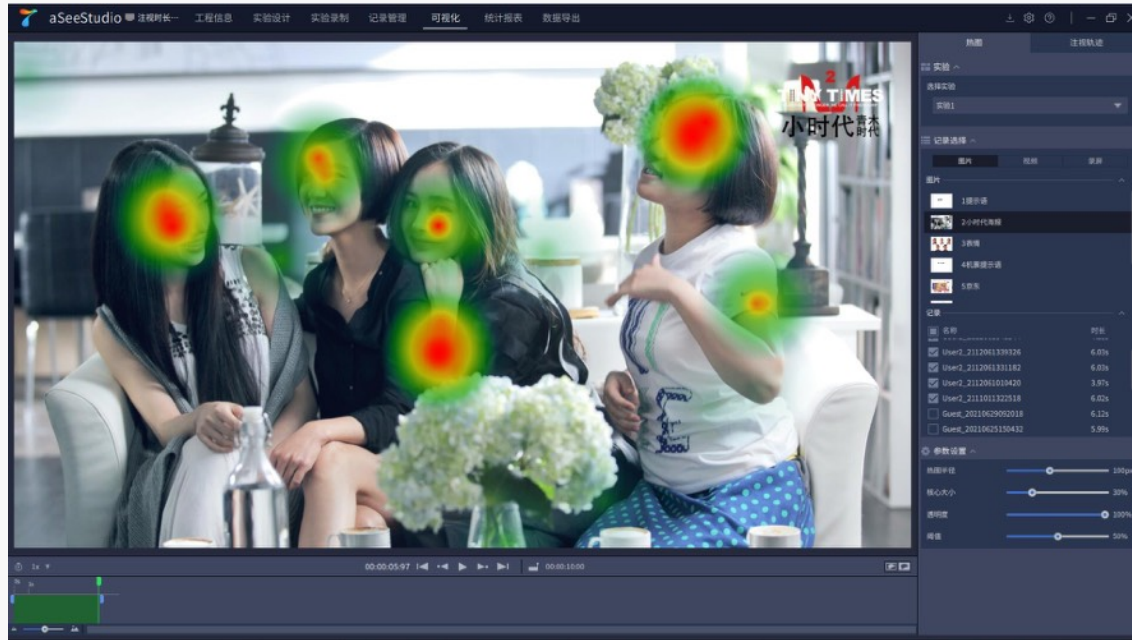
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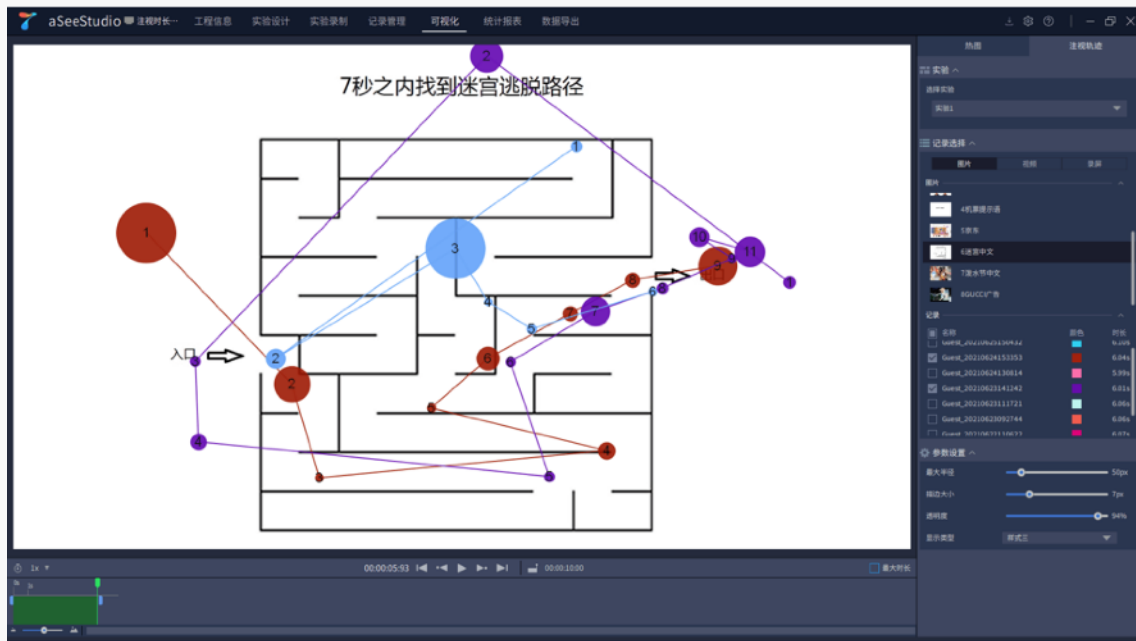
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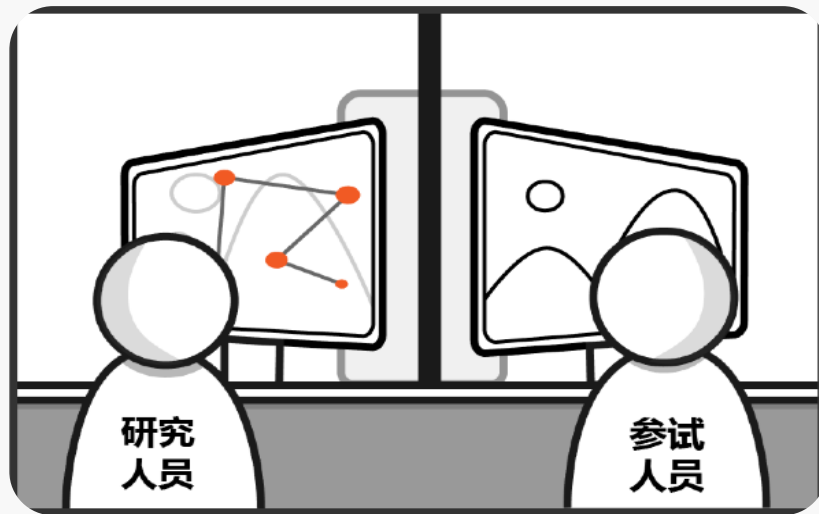
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