



# VizCMS Components Introduction

This article will introduce the component development of the VizCMS and the introduction of existing components.

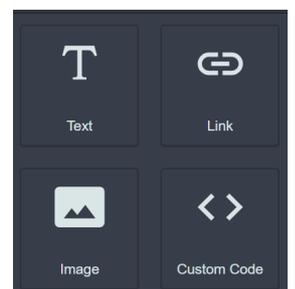
System component development is mainly divided into two modes:

1. Basic components: built-in components integrated with the editor (no need to modify development).
2. Custom components: configuration components and twig development components
  - a. Configuration, such as directly entering HTML/Twig in the background, can have a front-end component to reuse
  - b. Twig development requires code to declare a component that can call various APIs.

## I. Basic components

The basic components are the built-in components that are fixed in the build page and cannot be changed, including "text", "image", "link", and "Custom code" (as shown in the right figure).

This component is embedded with GrapesJS. If development is needed, GrapesJS needs to be repackaged and compiled. It is a very basic component and core development. Generally, ordinary projects do not need to develop this component.

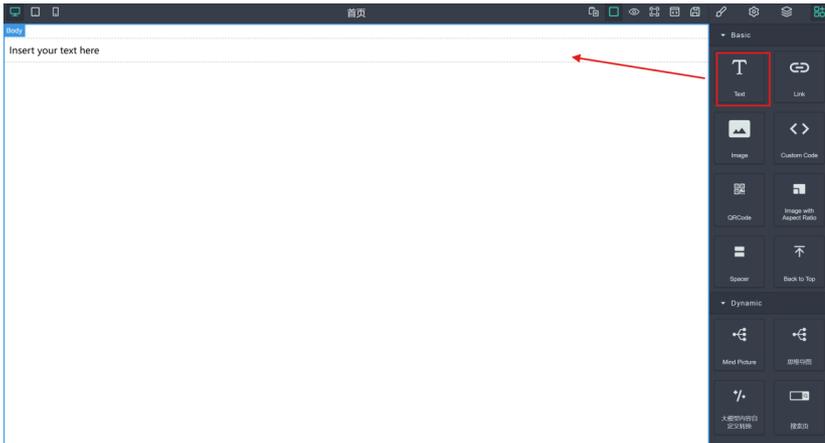


## 1. "text" component

**Description:** This component is used to display text information.

**Add method:** Select the component from the component bar and long press the mouse to drag it to the specified position to add the component.

**Editing method:** Double-click the "text" component that has been dragged out to edit the text.

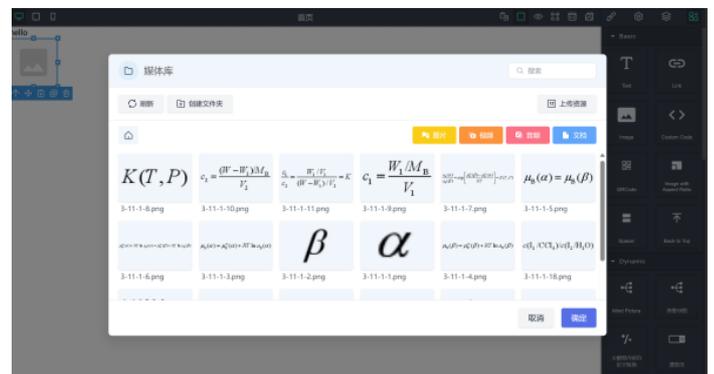
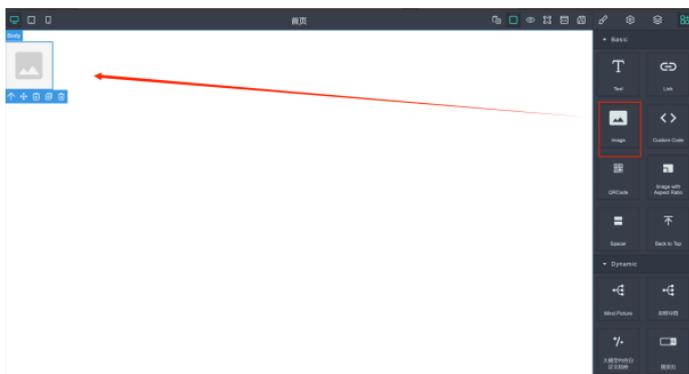


## 2. "image" component

This component is used to display images.

**Add method:** Select the component from the component bar and long press the mouse to drag it to the specified position to add the component.

**Editing method:** Double-click the "image" component that has been dragged out to open the resource library. After selecting the specified image in the resource library, click "OK" to add the image.



## 3. "link" component

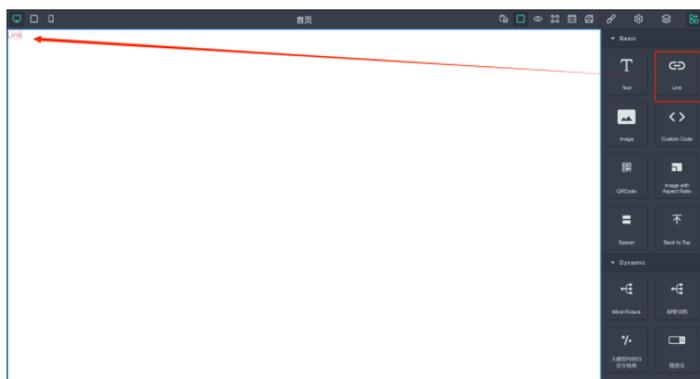
**Description:** This component is used to display links.

**Add method:** Select the component from the component bar and long press the mouse to drag it to the specified position to add the component.

### Editing method:

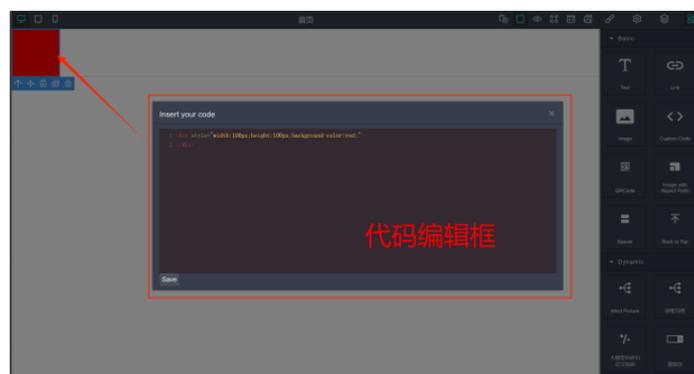
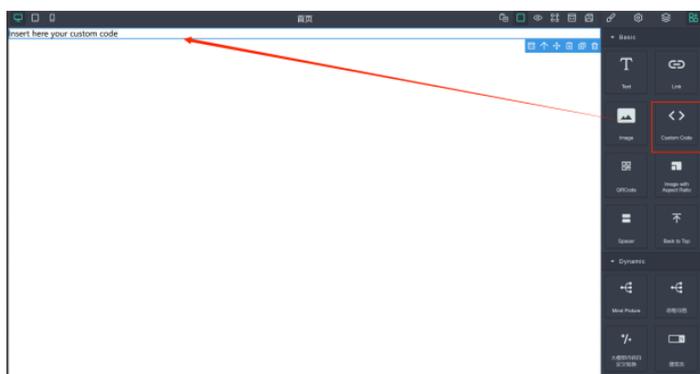
Select the "link" component that has been dragged out and click the edit button on the right. The right side will become the editing bar of the current link, where you can set the link.

Double-click the "link" component that has been dragged out to edit the text content of the current link.



## 4. "custom code" component

- **Description:** This component is a custom code component. If the above three components cannot meet your needs, you can customize the code in the current component. After editing, it will automatically execute the content of the Code Block and present the effect specified by the code.
- **Add method:** Select the component from the component bar and long press the mouse to drag it to the specified position to add the component.
- **Editing method:** Select the component from the component bar and long press the mouse to drag it to the specified position to open the code editing box of the component. After writing the code in the code editing box, click Save to complete the editing.



## II. Custom widgets

Custom components are reusable code snippets created and encapsulated according to specific requirements. There are two development methods for custom components, namely online configuration and local development.

### 1. Custom configured components

By using the CMS backend, manually paste the code, and then the front-end editor can drag and drop this widget from code segment onto the page.

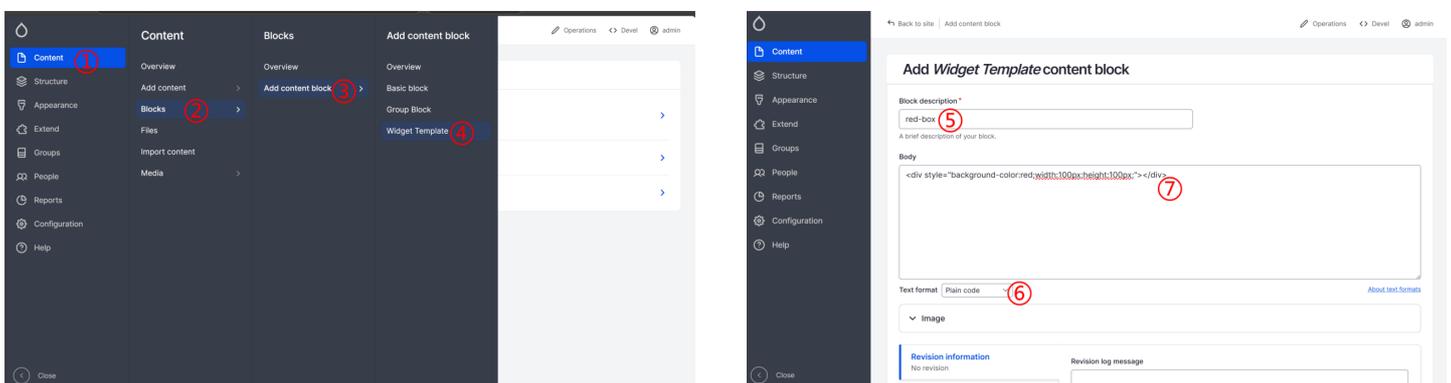
Flow of developing custom components: (Taking the development of "red-box" as an example)

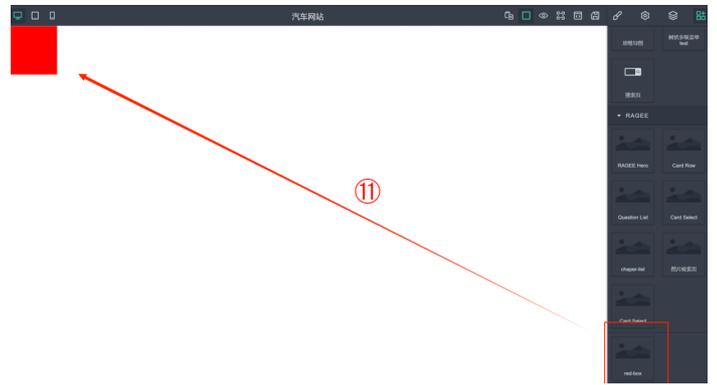
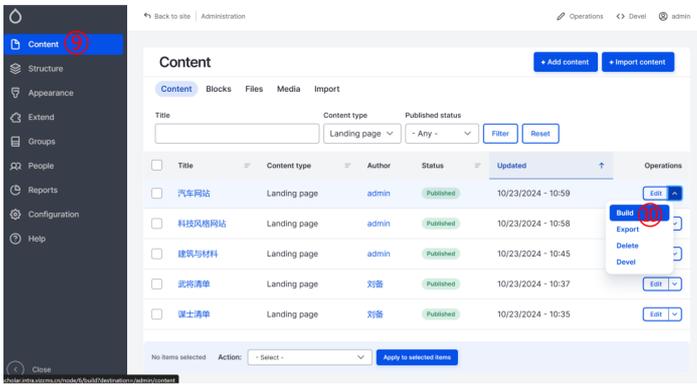
#### 1) Add a content in the background, paste the code, and upload the thumbnail of the component.

- a. Add Block in CMS backend - > "add content block"
- b. Click "Widget Template" with the mouse.
- c. Set component name "red-box"
- d. Set the edit box to "plain code" pure code mode
- e. Edit component code, or paste existing code
- f. Click Save [Done]

#### 2) Test the component

- a. Select a "landing page" test and enter the build page
- b. The newly created component "red-box" will appear at the bottom of the component bar on the right.





## 2. Custom developed components

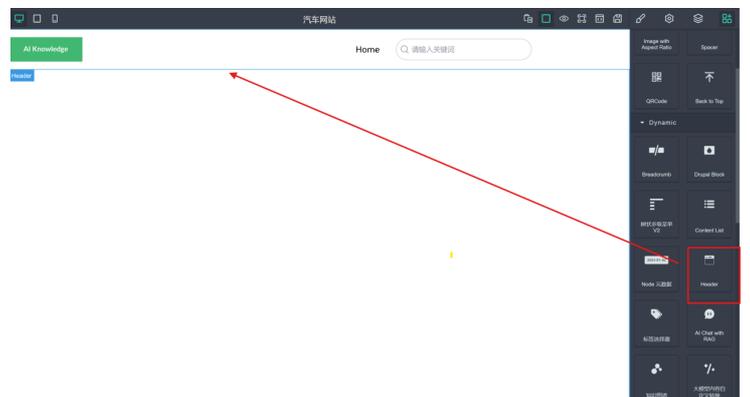
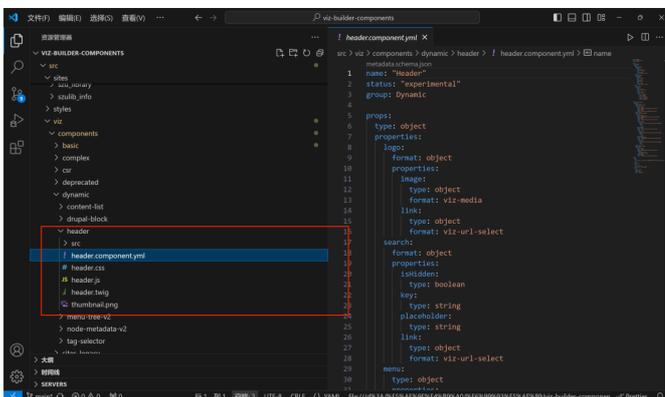
Local development of custom components means editing the development code of the component in the local Development Environment and then deploying it to Drupal CMS. Drupal will automatically scan the component code under all modules and load it into the visual editor.

The large code structure of the component is as follows

```

1 example-component/ # components folder
2   └─ assets #assets
3   └─ example-component.component.yml #component defination
4   └─ example-component.css #css
5   └─ example-component.js #js
6   └─ example-component.twig #twig
7   └─ README.md #Readme
8   └─ thumbnail.png #avatar
  
```

The header group shown in the figure below is developed locally and uploaded to the system. The system will automatically recognize and load the component into the editor.



For more tutorials, check out our [Component Development Documents](#)

[VizCMS 组件开发入门](#)

# III. Introduction to existing components

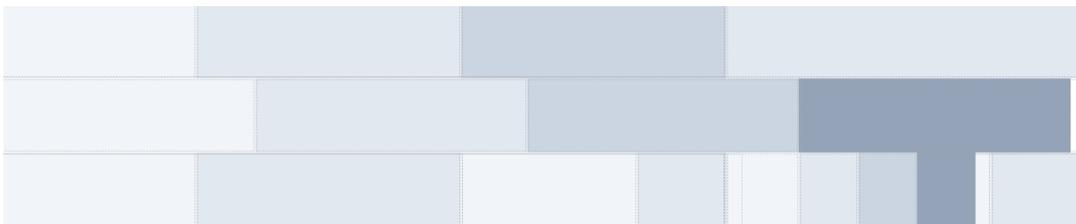
## 1. 2/3/4 Column layout component (HTML)

- Note: This component is a 2-column, 3-column layout component. By combining and applying, any column layout can be achieved
- Add component: Select the component and drag it to the specified location to add the component.
- Source code path: This component is configured from the block of the widget template and does not require development. The code is as follows:



```
1 <!-- (2 Column) -->
2 <div class="container mx-auto">
3   <div class="flex" viz-layout-wrapper="true">
4     <div class="min-h-[5rem] shrink-0 grow-0 basis-2/3 bg-slate-100"
      viz-layout-item="true"></div>
5     <div class="min-h-[5rem] shrink-0 grow-0 basis-1/3 bg-slate-200"
      viz-layout-item="true"></div>
6   </div>
7 </div>
```

Display effect:



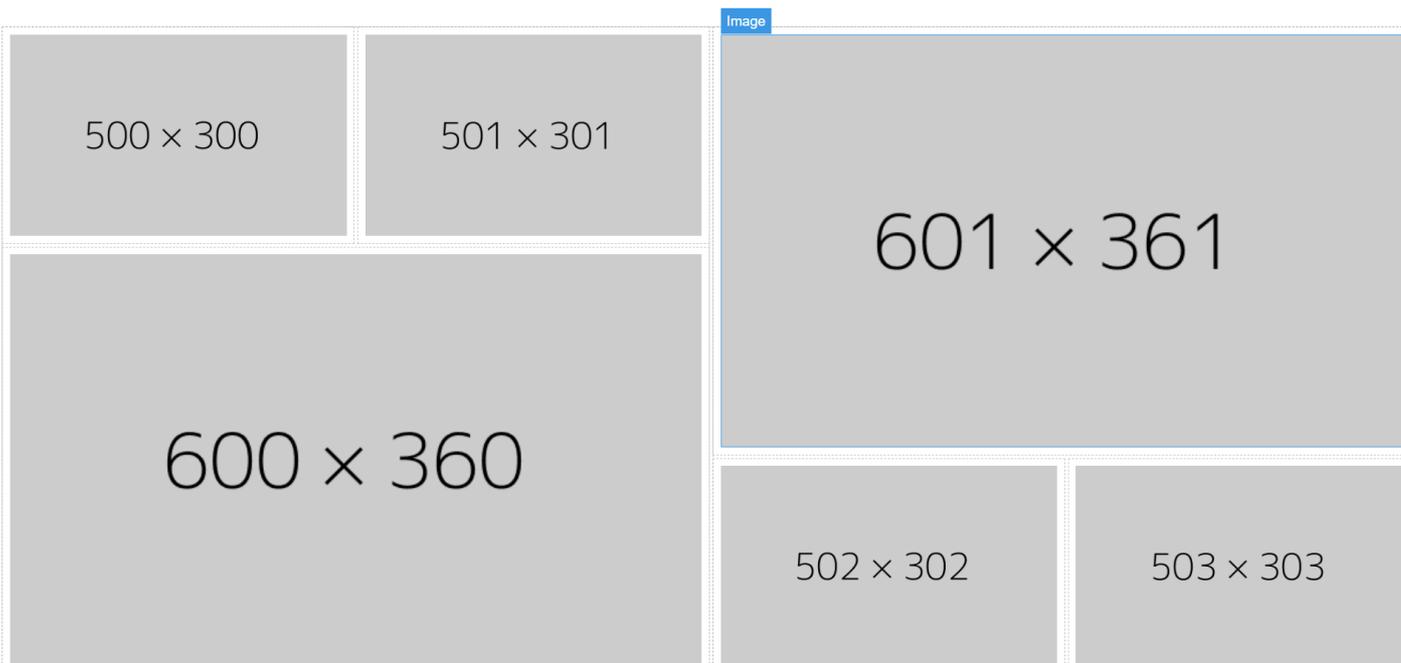
## 2. Static html components (tailwind)

- Note: This component is configured through the background, just paste the Tailwind HTML code
- Add component: Select the component and drag it to the specified location to add the component.
- Edit components: Double-click the dragged component to open the configuration item, and then click OK.

- This component can use various HTML graphic and text mixed ranking structures and templates provided by tailwind
- The configuration of the menu is as follows:

Master Cleanse Reliac  
Heirloom

Whatever cardigan tote bag tumblr hexagon brooklyn asymmetrical gentrify, subway tile poke farm-to-table. Franzen you probably haven't heard of them man bun deep jianbing selfies heirloom.



Raw Denim Heirloom Man Braid  
Selfies Wayfarers

<p> Shooting Stars</p> <p>Blue bottle crucifix vinyl post-ironic four dollar toast vegan taxidermy. Gastropub indxgo juice poutine, ramps microdosing banh mi pug VHS try-hard ugh iceland kickstarter tumblr live-edge tilde.</p> <p><a href="#">Learn More →</a></p>	<p> The Catalyzer</p> <p>Blue bottle crucifix vinyl post-ironic four dollar toast vegan taxidermy. Gastropub indxgo juice poutine, ramps microdosing banh mi pug VHS try-hard ugh iceland kickstarter tumblr live-edge tilde.</p> <p><a href="#">Learn More →</a></p>	<p> Neptune</p> <p>Blue bottle crucifix vinyl post-ironic four dollar toast vegan taxidermy. Gastropub indxgo juice poutine, ramps microdosing banh mi pug VHS try-hard ugh iceland kickstarter tumblr live-edge tilde.</p> <p><a href="#">Learn More →</a></p>
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### 3. Multi-level tree menu component

- This component can automatically load Drupal's menu, taxonomy, and book to form a hierarchical tree menu.
- Add component: Select the component and drag it to the specified location to add the component.
- Edit components: Double-click the dragged component to open the configuration item, and then click OK.



- Source code path:\ viz-builder-components\ src\ viz\ components\ basic\ spacer
- The configuration of the menu is as follows:

Configuration panel:

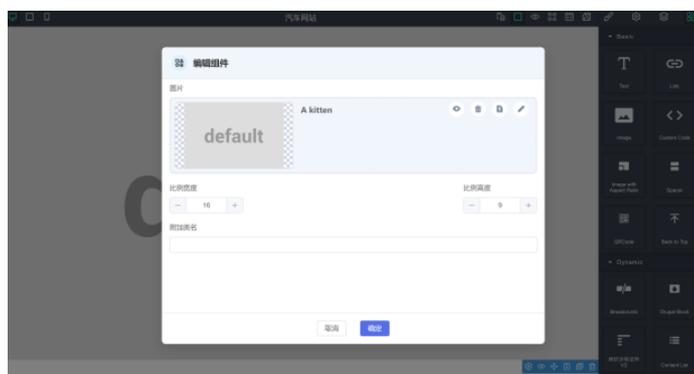
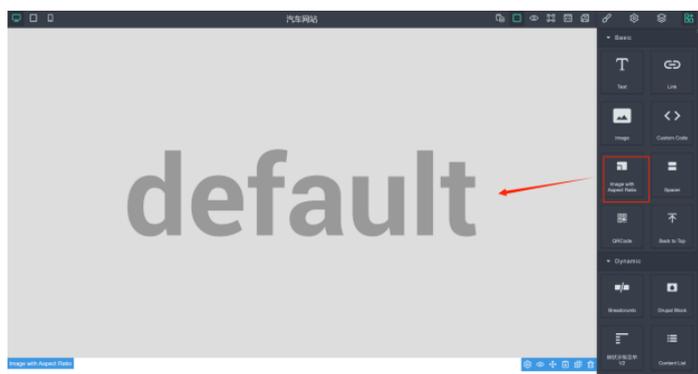
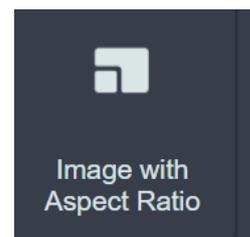


Display effect:



## 4. Image and fixed-scale image components

- Note: An image component that can set the image scale and can only hold one image
- Add component: Select the component and drag it to the specified location to add the component.
- Edit component: Double-click the dragged component to open the image editing box, and click OK after editing.
- Source code path:\ viz-builder-components\ src\ viz\ components\ basic\ aspect-image



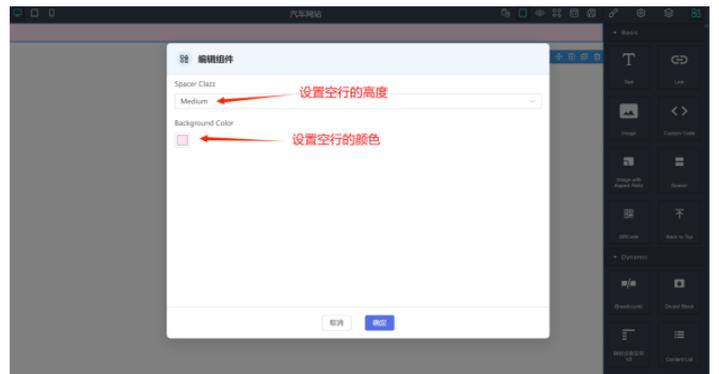
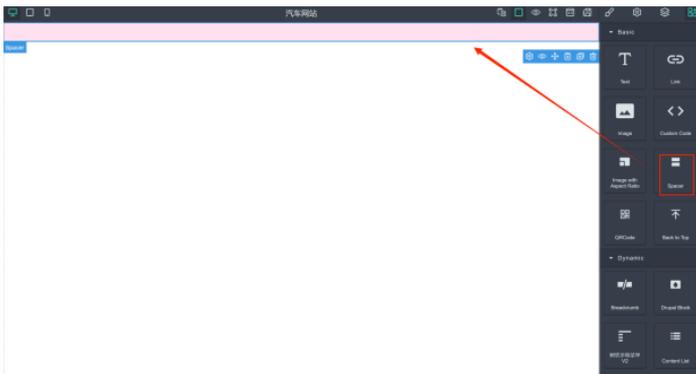
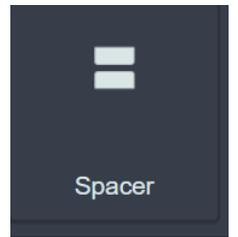
```

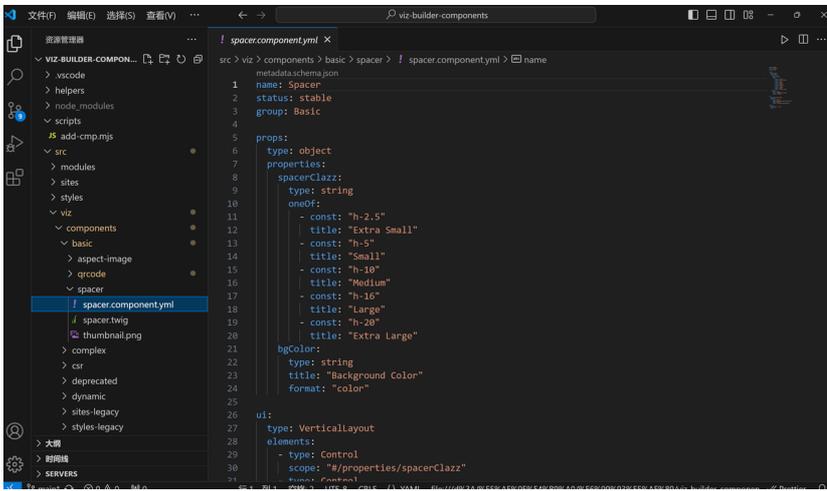
1 name: Image with Aspect Ratio
2 group: Basic
3
4 props:
5   type: object
6   properties:
7     image:
8       type: object
9       title: 图片
10      format: viz-media
11     width:
12       type: number
13       title: 比例宽度
14     height:
15       type: number
16       title: 比例高度
17     additionalClass:
18       type: string
19       title: 附加类名
20
21 ui:
22   type: VerticalLayout
23   elements:
24     - type: Control
25       scope: "#/properties/image"
26     - type: HorizontalLayout
27       elements:
28         - type: Control
29           scope: "#/properties/width"
30         - type: Control
31           scope: "#/properties/height"
32         - type: Control
33           scope: "#/properties/additionalClass"

```

## 5. Blank line component

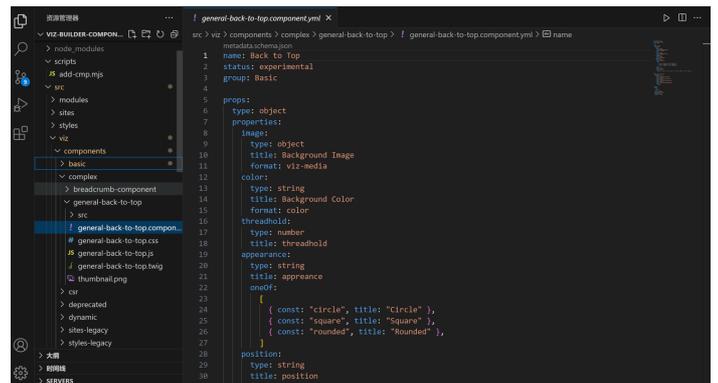
- This component is a blank line component. If you want to have a blank line at a certain position, you can use this component. And you can visually set the color and height of the current blank line.
- Add component: Select the component and drag it to the specified location to add the component.
- Edit component: Double-click the dragged component to open the image editing box. After editing, click OK to complete the editing.
- Source code path: \ viz-builder-components \ src \ viz \ components \ basic \ spacer





## 6. Back to top component (Back2Top)

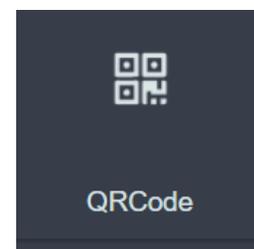
- Note: This component is a component used to return to the top of the page
- Add component: Select the component and drag it to the specified location to add the component.
- Double-click on the dragged component to open the component editing box. After editing, click OK to complete the editing.
- Effect: Click on a component to jump to the top of the page
- Source code path: viz-builder-components\src\viz\components\complex
- Application case:



## 7. QR code component

- This component is a component used to display a specified QR code.
- Add component: Select the component and drag it to the specified location to add the component.

- Edit component: Double-click the dragged component to open the editing box. After editing, click OK to complete the editing.
- Effect: After the mouse passes over the component, a large QR code image is displayed
- Source code path: \ viz-builder-components\ src\ viz\ components\ basic\ qrcode

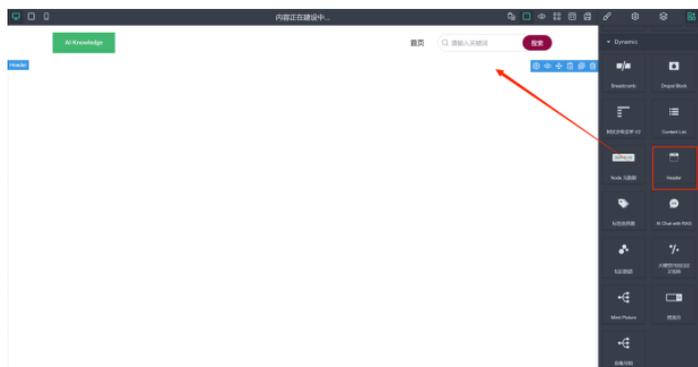


Use case:



## 8. Header component

- Description: This component is a basic Header component that includes the logo, navigation bar, and top search box.
- Add component: Select the component and drag it to the specified location to add the component.
- Edit component: Double-click the dragged component to open the image editing box. After editing, click OK to complete it.
- Source code path: viz-builder-components\ src\ viz\ components\ dynamic\ header



- Code structure:

```
! header.component.yml x
src > viz > components > dynamic > header > ! header.component.yml > name
metadata.schema.json
1 name: "Header"
2 status: "experimental"
3 group: Dynamic
4
5 props:
6   type: object
7   properties:
8     logo:
9       format: object
10      properties:
11        image:
12          type: object
13          format: viz-media
14        link:
15          type: object
16          format: viz-url-select
17      search:
18        format: object
19        properties:
20          isHidden:
21            type: boolean
22          key:
23            type: string
24          placeholder:
25            type: string
26          link:
27            type: object
28            format: viz-url-select
29      menu:
30        type: object
31        properties:
```

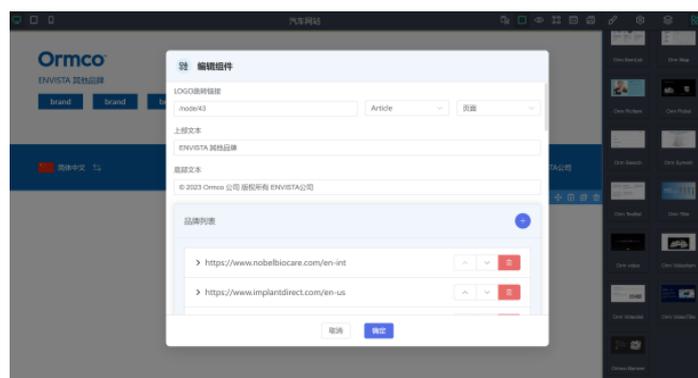
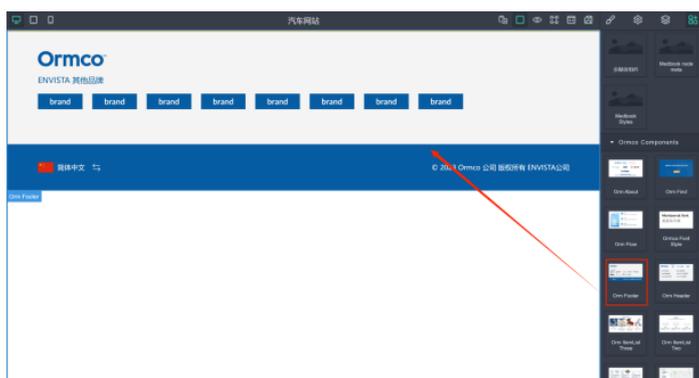
- Use case:



## 9. Footer component 1

- Note: This component is a basic Footer component, including text, page icons, and jump links, etc.

- Add component: Select the component and drag it to the specified location to add the component.
- Edit component: Double-click the dragged component to open the component editing box. After editing, click OK to finish.
- Effect: Used at the bottom of the page



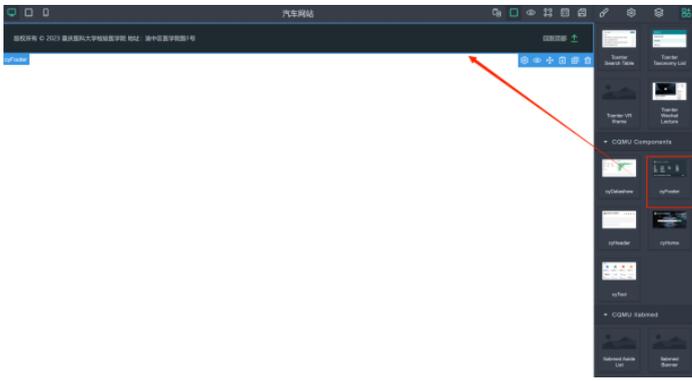
- Use case:



## 10. Footer component 2

- Note: This component is a basic Footer component, including text, page icons, and jump links, etc.
- Add component: Select the component and drag it to the specified location to add the component.
- Double-click on the dragged component to open the component editing box. After editing, click OK to complete the editing.
- Effect: Used at the bottom of the page

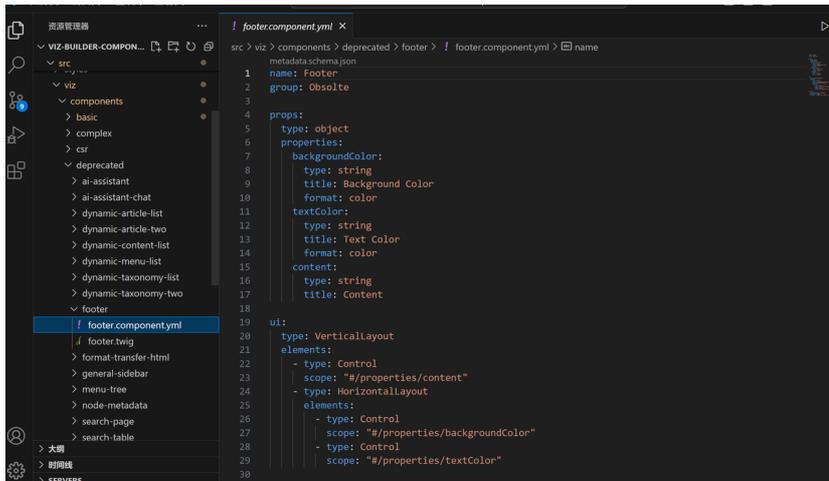




- Use case:

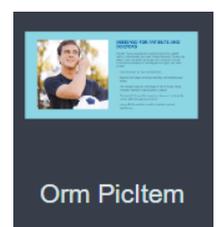


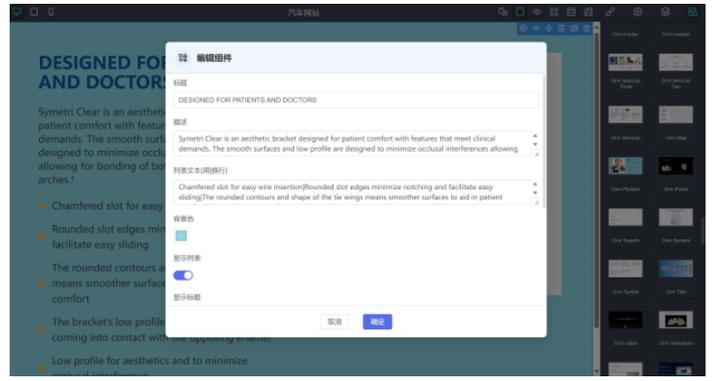
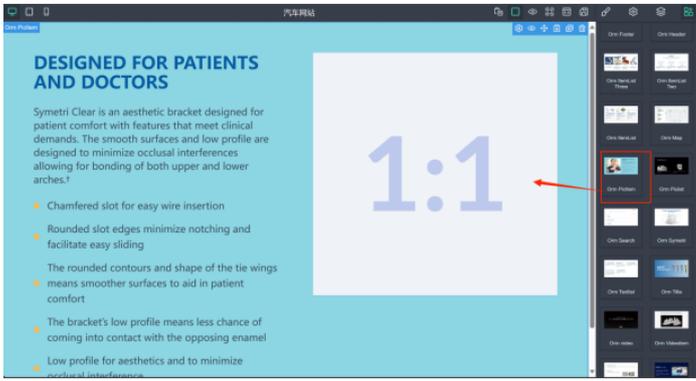
- Source code path: \ viz-builder-components\ src\ viz\ components\ deprecated\ footer



## 11. Graphic component

- Note: This component is a graphic and text list component, which has a layout of left text and right image, and only supports one set of graphic and text.
- Add component: Select the component and drag it to the specified location to add the component.
- Edit component: Double-click the dragged component to open the editing box. After editing, click OK to complete the editing.





- Use case:

## The Insignia Solution

Combining the efficiency of digital smile design and the precision of patient-specific appliances.

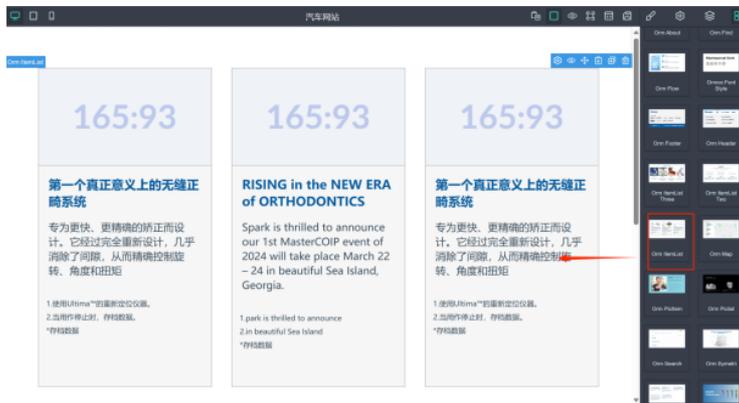
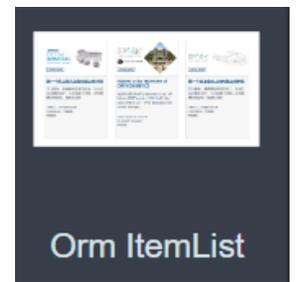


Insignia offers a comprehensive digital design and customized appliance treatment system that empowers you to achieve your ideal finishes efficiently and consistently.

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## 12. ItemList (ormco)

- Note: This component is a graphic and text list component, with a rule layout of up and down pictures and a limit of 3 per line. The number of graphics and texts is unlimited and can be added infinitely. Each group of graphics and texts can be set with titles, descriptions, pictures, links, etc.
- Add component: Select the component and drag it to the specified location to add the component.
- Edit component: Double-click the dragged component to open the editing box. After editing, click OK to complete the editing.



- Use case:

**DEXIS™ IS**

We're making intraoral scanning simpler at every stage.

**The First True Full Expression System**

Designed for faster and more precise finishing. It is completely re-engineered to virtually eliminate play for precise control of rotation, angulation and torque.

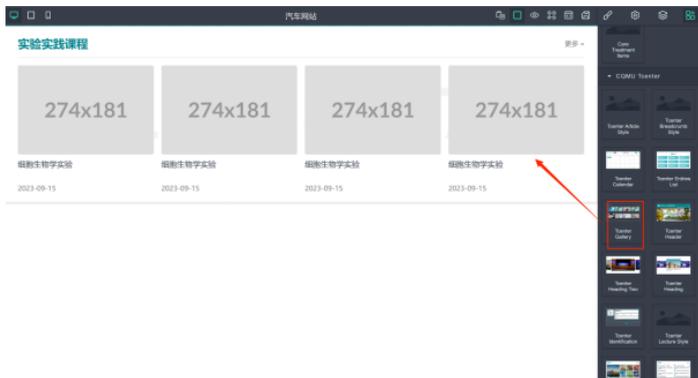
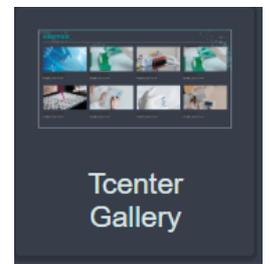
**Introducing the New Ultima**

The only repositionable hook designed to simplify your mechanics, save you time, and provide a healthier oral treatment and more comfortable experience for your patients.\*

1.park is thrilled to announce  
2.in beautiful Sea Island  
\*存档数据

## 13. Gallery (tcenter)

- Note: This component is a graphic and text list component, with a rule layout of up to 4 images and below, and a limit of 4 images per line. The number of images and texts is unlimited and can be added infinitely. Each group of images and texts can be set with a title, jump link, image, and date.
- Add component: Select the component and drag it to the specified location to add the component.
- Edit component: Double-click the dragged component to open the editing box. After editing, click OK to complete the editing.



- Use case:

### 工具推荐



**PubMedQA**  
生物学研究问答数据集和模型得分排行榜



**Gamma App**  
AI幻灯片演示生成工具



**文心大模型**  
百度推出的产业级知识增强大模型



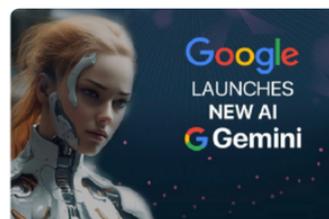
**Voice.ai**  
实时AI变声工具



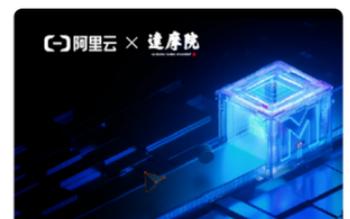
**讯飞智文**  
科大讯飞推出的免费AI PPT生成工具



**Coursera**  
知名MOOC平台, 众多人工智能和机器学习课程



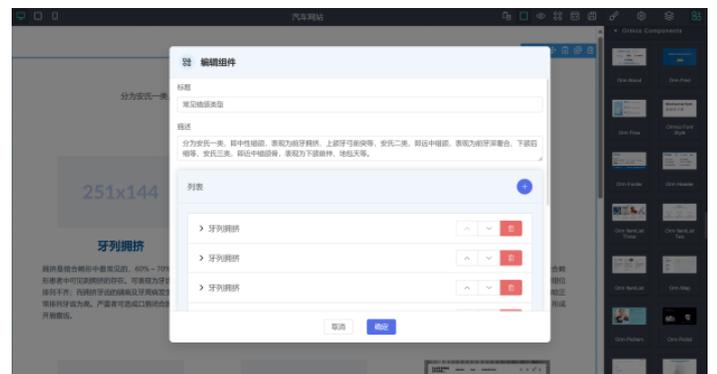
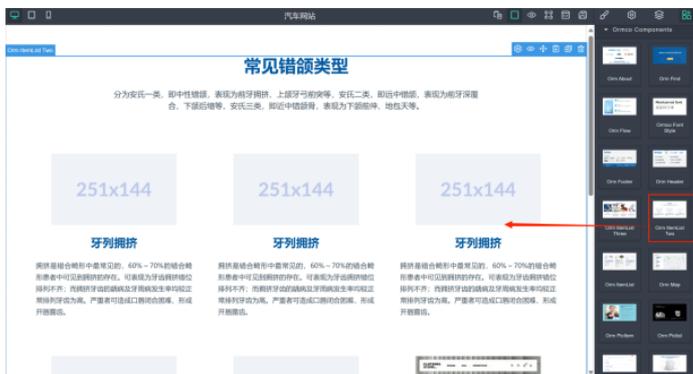
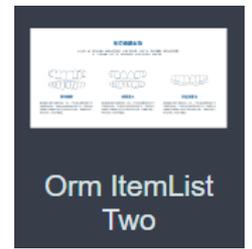
**Google AI学习平台**  
Making AI helpful for everyone



**人工智能学习路线**  
算法原理、框架精讲、机器学习实战、图像识别实战、自然语言处理实战, 人工智能技术...

## 14. Item list two (ormco)

- This component is a graphic and text list component. It has a rule layout with a limit of 3 images per line, and there is no limit to the number of images and texts. Each group of images and texts can be set with a title, text description, and image.
- Add component: Select the component and drag it to the specified location to add the component.
- Edit component: Double-click the dragged component to open the editing box. After editing, click OK to complete the editing.



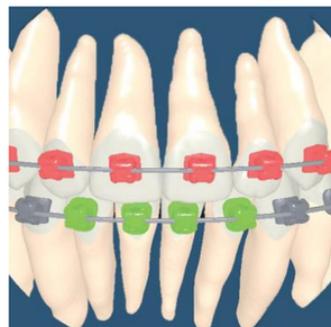
- Use case:

### HOW IT WORKS:



SCAN

Patient data is digitized and prepared for 3D design.



DESIGN

Case specialists provide a setup that you are able to review and manipulate using Insignia's Approver software.



BUILD

Custom brackets, wires and placement guides (jigs) are fabricated based on your approved design.



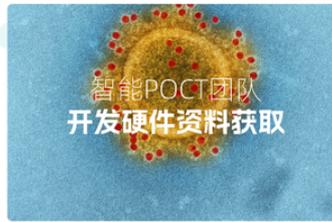
BOND

Custom brackets are accurately positioned with precision indirect bonding jigs.



艾格尚墨团队-文献阅读技巧

2014-04-02



智能POCT团队-开发硬件资料获取

2015-07-23



研究生科研-科技局项目申报II

2017-09-14



智能POCT团队-智能POCT概述

2018-09-08

## 15. News list (tcenter)

- This component is a text list component for rule layout. The background can select categories, columns and other conditions, and then display the news list.
- Add component: Select the component and drag it to the specified location to add the component.
- Edit component: Double-click the dragged component to open the editing box. After editing, click OK to complete the editing.



- Use case:

## 通知公告

- |  |  |
|--|--|
| <p><b>3月</b> 重庆医科大学检验医学院2024年硕博连续候选人考核结果公示</p> <p><b>06</b> 重庆医科大学检验医学院2024年硕博连续候选人考核结果公示表 (100208 临床...</p> | <p><b>12月</b> 重庆医科大学检验医学院2024年第一批次博士研究生“申请-考核”制考...</p> <p><b>29</b> 重庆医科大学检验医学院2024年第一批次博士研究生“申请-考核”制考核结果公...</p> |
| <p><b>12月</b> 检验医学院2023年研究生“创先争优”拟推荐名单公示</p> <p><b>26</b> 为落实“立德树人”根本任务，树立典型，表彰先进，根据《重庆医科大学研究生...</p>        | <p><b>12月</b> 检验医学院2023年研究生国家奖学金拟推荐名单公示</p> <p><b>25</b> 根据学校《关于2023年研究生国家奖学金评选的通知》等文件精神，由学生本...</p>               |
| <p><b>11月</b> 检验医学院2023年本科院内奖学金评选结果公示</p> <p><b>24</b> 为推进学院学风建设，激励学生奋发努力，积极进取，经本科生自愿申请、学院...</p>            | <p><b>9月</b> 医学检验与人工智能融合发展学术研讨会会议</p> <p><b>20</b></p>   |

## 16. List page component

- Note: This component is a text list component for rule layout, used to display the content of a column, generally applicable to the Term page of Viwes
- Add component: Select the component and drag it to the specified location to add the component.
- Edit component: Double-click the dragged component to open the editing box. After editing, click OK to complete the editing.
- Use case:

### 学科建设

- 学科定位
- 学科队伍
- 非遗研究
- 人才培养**
- 学科基地



2024-06-03

**文学院举行非遗专业田野调查成果交流会**

7月6日下午，文学院在戏影教室举行非物质文化遗产专业田野调查成果交流会。首先，魏嵘老师分享了在中央文化和旅游干部管理学院举办的全...

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2024-06-03

**文学院非遗保护专业学生参加爱上纪录片·《马背上的传承》...**

9月2日，文学院非遗保护专业学生参加了爱上纪录片·《马背上的传承》首映揭幕活动。展映活动在兰州百安概念影院进行，由中共兰州市委直...

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2024-06-03

**文学院成功举办戏剧影视文学专业“剧里相遇，美在生活”第...**

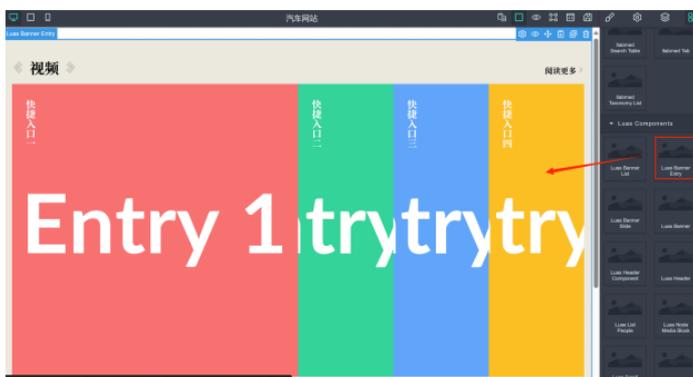
2024年2月29日，我院教师慈琼在《中国教育报》发表课程思政教学文章《新时代大学课程思政建设探索与实践——以兰州文理学院中国古代文...

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## 17. Accordion component (Luas Banner Entry)

- Note: This component is an accordion component, which allows users to view and hide content in a limited space. When the user mouse passes by, it expands the current content to hide other content, including titles, links, and images
- Add component: Select the component and drag it to the specified location to add the component.
- Edit component: Double-click the dragged component to open the image editing box. After editing, click OK to complete the editing.

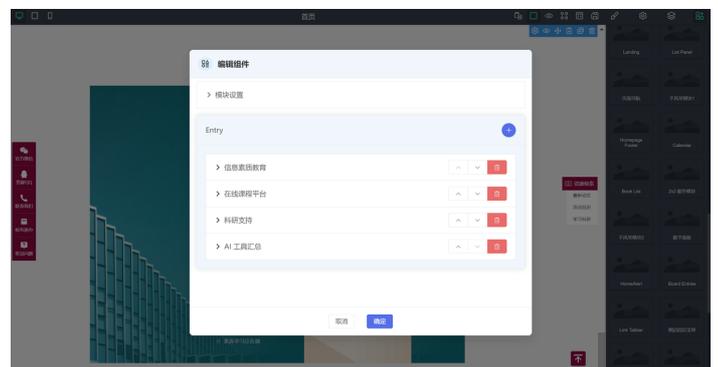


- Use case:



### 14.1 Accordion template 1

- This component is an accordion component that allows users to view and hide content in a limited space. When the user's mouse passes by, it expands the current content to hide other content. It can include titles, links, link groups, background colors, and background images.
- Add component: Select the component and drag it to the specified location to add the component.
- Edit component: Double-click the dragged component to open the image editing box. After editing, click OK to complete the editing.

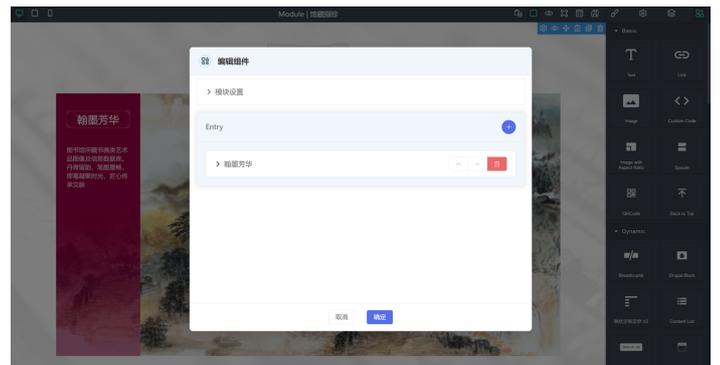
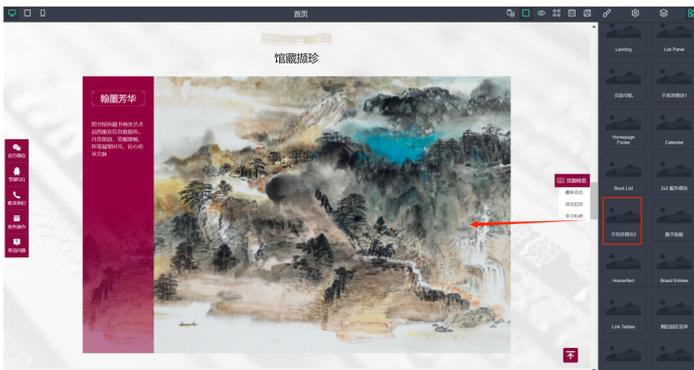


- Use case:

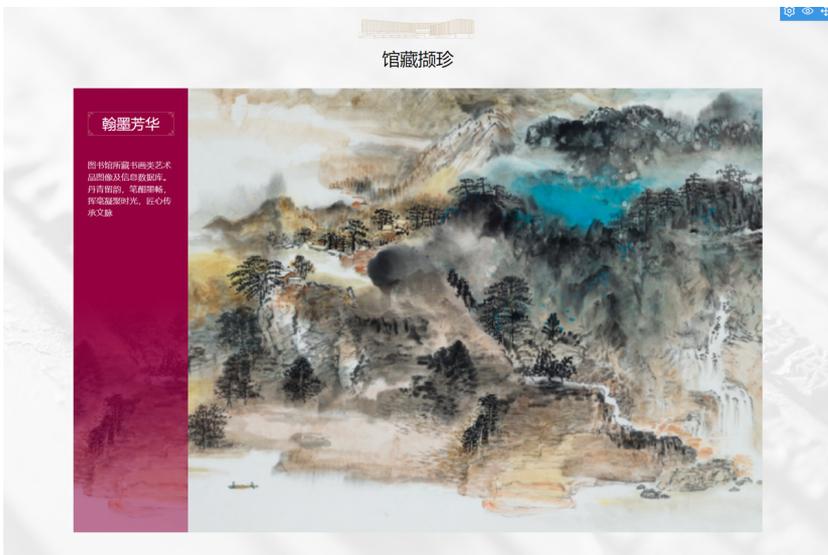


## 14.2 Accordion template 2

- This component is an accordion component that allows users to view and hide content in a limited space. When the user's mouse passes by, it expands the current content to hide other content. It can include titles, links, link groups, background colors, and background images.
- Add component: Select the component and drag it to the specified location to add the component.
- Edit component: Double-click the dragged component to open the image editing box. After editing, click OK to complete the editing.



- Use case:



### 14.3 Accordion list

- This component is an accordion component, which allows users to view and hide content in a limited space. When the user mouse passes by, it expands the current content to hide other content, including titles, links, and background images.
- Add component: Select the component and drag it to the specified location to add the component.
- Edit component: Double-click the dragged component to open the image editing box. After editing, click OK to complete the editing.



- Use case:



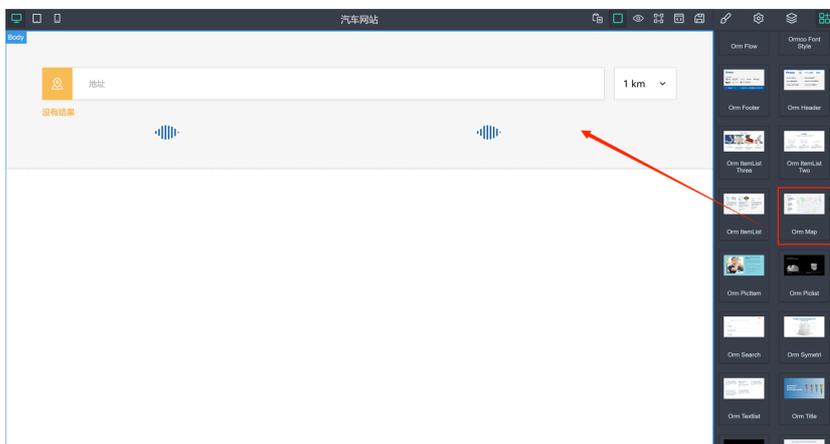
## 18. Calendar component

- Description: This component is a calendar component
- Add component: Select the component and drag it to the specified location to add the component.
- Edit component: Double-click the dragged component to open the image editing box. After editing, click OK to complete the editing.
- Use case:

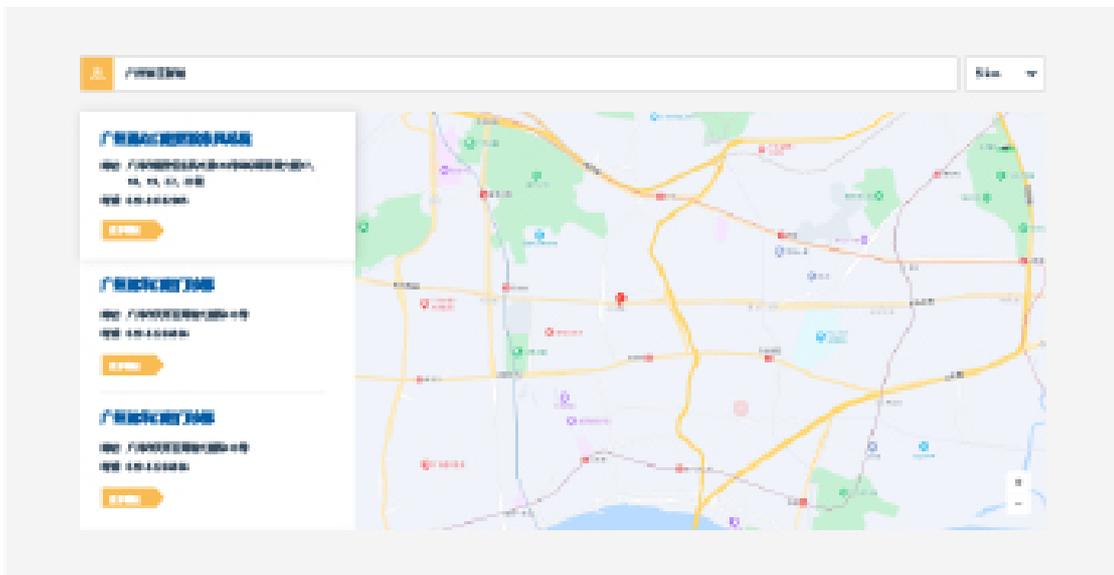


## 19. Map component

- Note: This component is a map component that can display each specific address and a map within a certain range
- Add component: Select the component and drag it to the specified location to add the component.
- Edit component: Double-click the dragged component to open the image editing box. After editing, click OK to complete the editing.



- Use case:



## 20. AI integration and AI chat component

- This component is an intelligent Q & A component that can be configured by building a large model of the component, answers in specific situations, and conversation lists, etc.
- Add component: Select the component and drag it to the specified location to add the component.
- Edit component: Double-click the dragged component to open the image editing box. After editing, click OK to complete the editing.

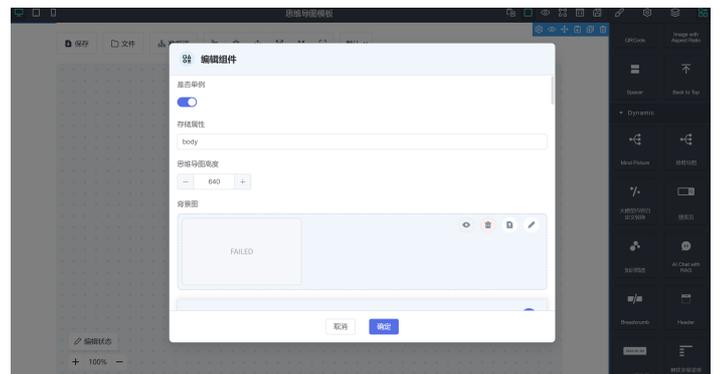
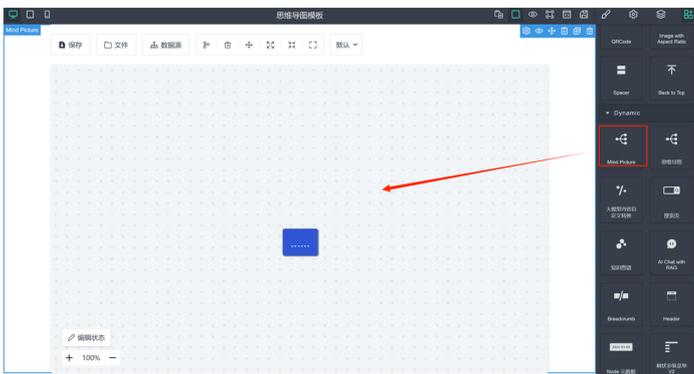


- Use case:

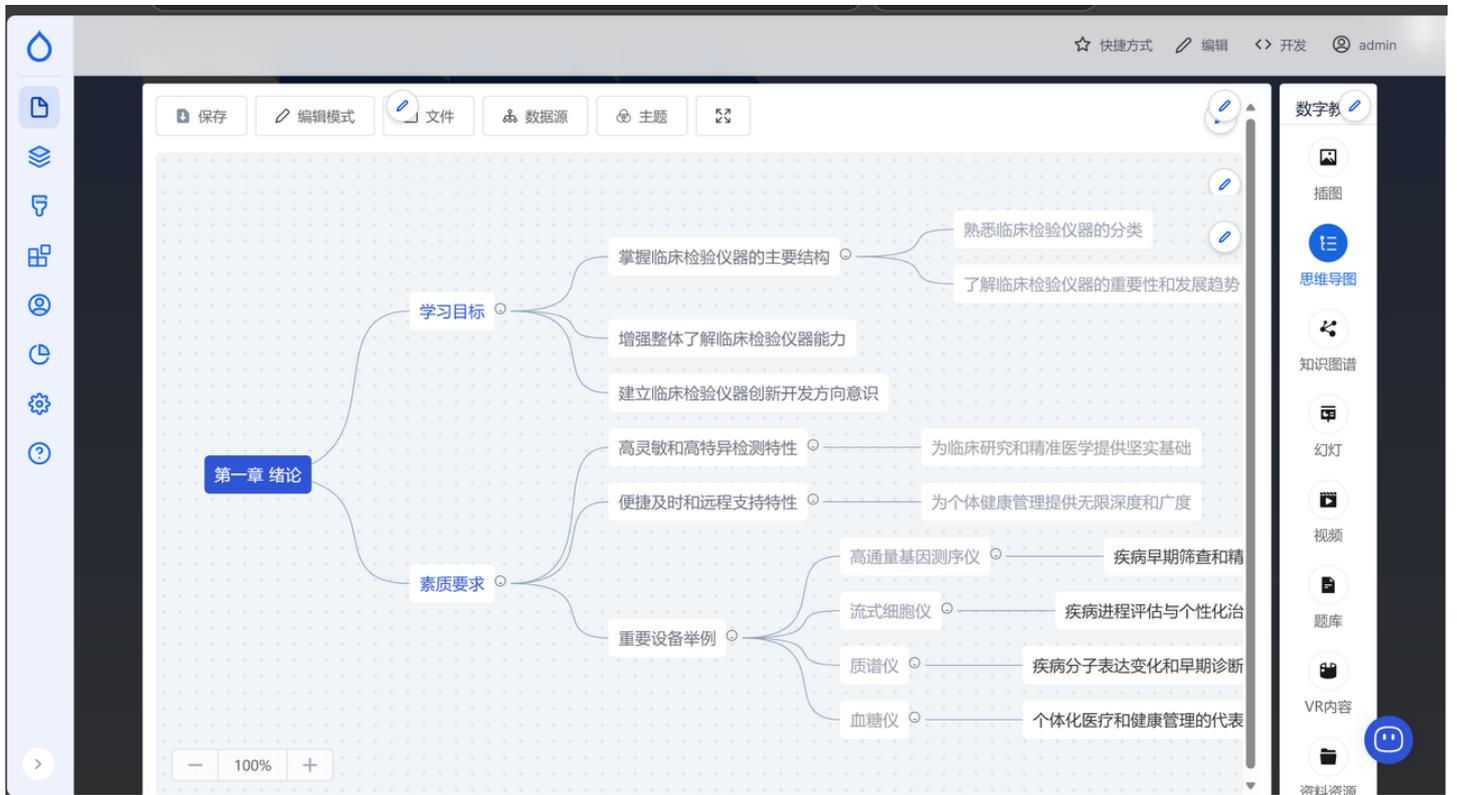


## 21. AI mind mapping component

- Note: This component is a mind map component that can configure the data source, optional font size, and optional font color of the mind map
- Add component: Select the component and drag it to the specified location to add the component.
- Edit component: Double-click the dragged component to open the image editing box. After editing, click OK to complete the editing.

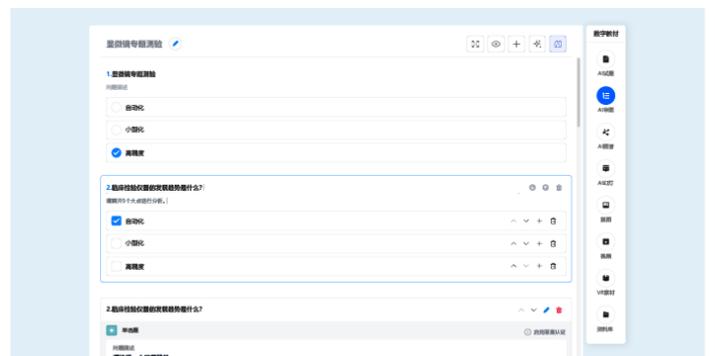
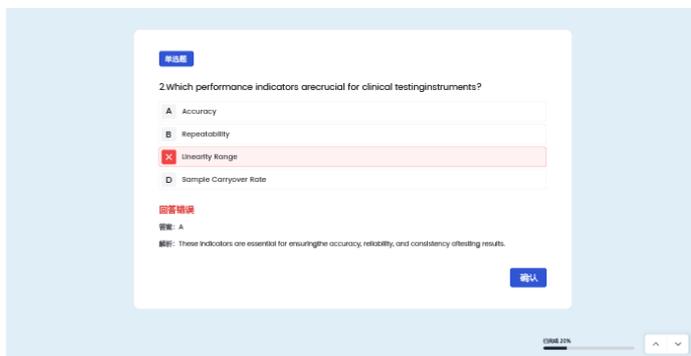


- Use case:



## 22. AI quiz component

- This component is a component where AI generates test questions based on content.
- Add component: Select the component and drag it to the specified location to add the component.
- Edit component: Double-click the dragged component to open the image editing box. After editing, click OK to complete the editing.
- Use case:



## 23. AI knowledge graph component

- This component draws Knowledge Graph components based on content.

- Add component: Select the component and drag it to the specified location to add the component.
- Edit component: Double-click the dragged component to open the image editing box. After editing, click OK to complete the editing.
- Use case:

