**TagCanvas**是一个基于HTML5 Canvas技术开发的标签云动画。还提供一个以jQuery插件形式实现的版本。

它支持文本和图片两种格式，能够以Sphere, hcylinder 或 vcylinder三种形状显示。

TagCanvas还支持IE浏览器（利用ExplorerCanvas实现）。

**具体参数：**

|  |  |  |
| --- | --- | --- |
| **Option** | **Default** | **Description** |
| interval | 20 | Interval between animation frames, in milliseconds |
| maxSpeed | 0.05 | Maximum speed of rotation |
| minSpeed | 0.0 | Minimum speed of rotation when mouse leaves canvas |
| decel | 0.95 | Deceleration rate when mouse leaves canvas |
| minBrightness | 0.1 | Brightness of tags at farthest point (0.0-1.0) |
| textColour | "#ff99ff" | Colour of the tag text |
| textHeight | 15 | Height of the tag text font (in pixels) |
| textFont | "Helvetica, Arial, sans-serif" | Font family for the tag text |
| outlineColour | "#ffff99" | Colour of the box around the active tag |
| outlineThickness | 2 | Thickness of outline in pixels |
| outlineOffset | 5 | Distance of outline from text, in pixels |
| pulsateTo | 1.0 | Pulsate outline to this opacity (0.0-1.0) |
| pulsateTime | 3 | Pulse rate, in seconds per beat |
| depth | 0.5 | Controls the perspective (0.0-1.0) |
| initial | null | Initial rotation, with horizontal and vertical as an array, e.g. [0.8,-0.3]. Values are multiplied by maxSpeed. |
| freezeActive | false | Set to true to pause movement when a tag is highlighted. |
| frontSelect | false | Set to true to prevent selection of tags at back of cloud. |
| txtOpt | true | Text optimisation, converts text tags to images for better performance. |
| txtScale | 2 | Scaling factor of text when converting to image in txtOpt mode. |
| reverse | false | Set to true to reverse direction of movement relative to mouse position. |
| hideTags | false | Set to true to automatically hide the tag list element if TagCanvas is started successfully. |
| zoom | 1.0 | Adjusts the relative size of the tag cloud in the canvas. Larger values will zoom into the cloud, smaller values will zoom out. |
| wheelZoom | true | Enables zooming the cloud in and out using the mouse wheel or scroll gesture. |
| zoomStep | 0.05 | The amount that the zoom is changed by with each movement of the mouse wheel. |
| zoomMax | 3.0 | Maximum zoom value. |
| zoomMin | 0.3 | Minimum zoom value. |
| shadow | "#000000" | Colour of the shadow behind each tag. |
| shadowBlur | 0 | Amount of tag shadow blurring, in pixels. |
| shadowOffset | [0,0] | X and Y offset of the tag shadow, in pixels. |
| weight | false | Set to true to turn on weighting of tags. |
| weightMode | "size" | Method to use for displaying tag weights. Should be one of size, colour or both. |
| weightSize | 1.0 | Multiplier for adjusting the size of tags when using a weight mode of size or both. |
| weightGradient | {0:'#f00', 0.33:'#ff0', 0.66:'#0f0', 1:'#00f'} | The colour gradient used for colouring tags when using a weight mode of colour or both. |
| weightFrom | null | The link attribute to take the tag weight from. The default of null means that the weight is taken from the calculated link font size. |
| shape | "sphere" | The shape of the cloud. Currently supported are sphere, hcylinder for a cylinder that starts off horizontal and vcylinder for a cylinder that starts off vertical. |
| lock | null | A value of "x" limits rotation of the cloud to the (horizontal) x-axis, and a value of "y" limits rotation to the (vertical) y-axis. (These are strings, so the quotes are required) |

**具体参数：**

|  |  |  |
| --- | --- | --- |
| **选项** | **默认** | **描述** |
| 间隔 | 20 | 动画帧之间的间隔，以毫秒为单位 |
| 最大速度 | 0.05 | 最大旋转速度 |
| minSpeed | 0.0 | 鼠标离开画布时的最小旋转速度 |
| 减速 | 0.95 | 鼠标离开画布时的减速率 |
| minBrightness | 0.1 | 最远点的标签亮度（0.0-1.0） |
| textColour | “＃FF99FF” | 标签文字的颜色 |
| textHeight不同 | 15 | 标签文字字体的高度（以像素为单位） |
| TEXTFONT | “Helvetica，Arial， sans-serif” | 标记文本的字体家族 |
| outlineColour | “＃FFFF99” | 活动标签周围的框的颜色 |
| outlineThickness | 2 | 轮廓厚度像素 |
| outlineOffset | 五 | 轮廓与文本的距离（以像素为单位） |
| pulsateTo | 1.0 | 脉动轮廓到这个不透明度（0.0-1.0） |
| pulsateTime | 3 | 脉率，以每秒拍摄秒数 |
| 深度 | 0.5 | 控制视角（0.0-1.0） |
| 初始 | 空值 | 初始旋转，水平和垂直为一个数组，例如[0.8，-0.3]。数值乘以maxSpeed。 |
| freezeActive | 假 | 设置为true以突出标记时暂停移动。 |
| frontSelect | 假 | 设置为true以防止在云背后选择标签。 |
| txtOpt | 真正 | 文本优化，将文本标签转换为图像以获得更好的性能。 |
| txtScale | 2 | 在txtOpt模式下转换为图像时的文本缩放比例。 |
| 相反 | 假 | 设置为true以相对于鼠标位置反向移动。 |
| hideTags | 假 | 如果TagCanvas成功启动，则设置为true以自动隐藏标签列表元素。 |
| 放大 | 1.0 | 调整画布中标签云的相对大小。较大的值将放大云，较小的值将缩小。 |
| wheelZoom | 真正 | 使用鼠标滚轮或滚动手势可以缩放云。 |
| zoomStep | 0.05 | 鼠标滚轮的每次移动都会改变缩放的量。 |
| zoomMax | 3.0 | 最大变焦值。 |
| zoomMin | 0.3 | 最小变焦值。 |
| 阴影 | “＃000000” | 每个标签背后的阴影颜色。 |
| shadowBlur | 0 | 标记阴影模糊的数量（以像素为单位）。 |
| shadowOffset | [0,0] | 标签阴影的X和Y偏移量（以像素为单位）。 |
| 重量 | 假 | 设置为true以打开标签的权重。 |
| weightMode | “尺寸” | 用于显示标签权重的方法。应该是大小，颜色或两者之一。 |
| weightSize | 1.0 | 当使用尺寸的重量模式或两者兼而有之时，用于调整标签大小的乘数。 |
| weightGradient | {0：'＃f00'，0.33：'＃ff0'， 0.66：'＃0f0'，1：'＃00f'} | 用于在使用颜色重量模式或两者都着色时用于着色标记的颜色渐变。 |
| weightFrom | 空值 | 从中获取标签权重的链接属性。默认值为null表示从计算的链接字体大小中获取权重。 |
| 形状 | “领域” | 云的形状。目前支持的是球体，hcylinder是从水平开始的圆柱体，vcylinder是从垂直开始的圆柱体。 |
| 锁 | 空值 | “x”的值将云的旋转限制到（水平）x轴，而“y”的值将旋转限制到（垂直）y轴。（这些是字符串，所以引号是必需的） |