
Framework Friday: Anime.JS

Steps to Install

1. npm install vite --save-dev
2. npm install animejs
3. Add below to package.json in place of scripts:

```
"scripts": {  
    "dev": "vite",  
    "build": "vite build",  
    "preview": "vite preview"  
}
```

4. Run website using npm run dev.

Objects

You can find objects that anime.js has by using their website: <https://animejs.com/documentation>. - Importing - Functions can be imported with the import command in the js file.

```
import { createTimeline, utils, createDraggable} from 'animejs';
```

- Utils
 - A Collection of utility functions for animation tasks.
 - * This library works by targeting class or html type. you target them like this:

```
const [ $logo ] = utils$('.logo.js');  
const [ $button ] = utils$('button');  
<div class="largeCenteredRow">  
  <svg class="logo js" preserveAspectRatio="xMidYMid meet"  
    viewBox="0 0 630 630">  
  <path fill="currentColor" d="" /></svg>  
</div>  
<div class="mediumRow">  
  <fieldset class="controls">  
    <button>rotations: 0</button>  
  </fieldset>  
</div>
```

- Draggable

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- Adds draggable items to DOM Elements
 - Create the Draggable Item using `createDraggable(target, parameters)`

- * Has axes parameters such as:

- locking x and y directions

```
import { createDraggable } from 'animejs';

createDraggable('.square.enabled', {
  x: true
});

createDraggable('.square.disabled', {
  x: false
});
```

- snapping to an area
 - mapping to an area

- Methods

- * enable, disable
 - * setX, setY
 - * reset, stop, revert

- Timer

- `createTimer`:

```
const timer = createTimer({
  duration: 2000,
  onUpdate: self => $time.innerHTML = self.iterationCurrentTime,
  loop: true,
});
```

- Callbacks: Can execute functions during a timer playback

- * `onBegin`, `onComplete`, `onUpdate`, `onLoop`, `onPause`

- Methods: control over the timing, behavior, and progression of the timer.

- * `resume`, `pause`, `alternate`

```
const resumeTimer = () => timer.resume();
const pauseTimer = () => timer.pause();
const alternateTimer = () => timer.alternate();
```

```
$resumeButton.addEventListener('click', resumeTimer);
$pauseButton.addEventListener('click', pauseTimer);
$alternateButton.addEventListener('click', alternateTimer);
```

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- Animations
 - Can target CSS and DOM elements. Ways you can animate are translations, scaling, opacity, rotations and more!
 - Takes in a target and parameters:
 - * Keyframes: When things happen and what happens
 - * Property specific: Like rotate, delay, ease, loop
 - Created with `animate(targets, parameters)`
 - Methods:
 - * Pause, play, start, reverse, etc
 - Timeline
 - Synchronize animations, timers, and callbacks together.
 - Methods:
 - * Pause, play, restart, resume
 - * add, sync, call, label, set
 - Creation example

```
const tl = createTimeline({ defaults: { duration: 750 } });

tl.label('start')
.add('.square', { x: '15rem' }, 500)
.add('.circle', { x: '15rem' }, 'start')
.add('.triangle', { x: '15rem', rotate: '1turn' }, '<=500');
```