

SUPER FRIENDS



tmapworldwide

ActionScript? JavaScript?

No problem.

TweenMax
Animation without limits
TimelineMax
TimelineLite



GSAP12

GreenSock Animation Platform

GreenSock Animation Platform

For JavaScript

What is GreenSock?

- Comes from Flash/ActionScript
- Library for JavaScript animation
- <http://www.greensock.com/gsap-js/>

Why GreenSock?

- Faster than jQuery, (<http://www.greensock.com/js/speed.html>)
- Easier than CSS3 animations (build in all vendor prefixes)
- Fallback to IE6
- Faster on mobile devices
- Easy control of timeline

Impossible with jQuery. Easy with GSAP.

`restart()` `pause()` `resume()` `reverse()` `play()` `play(1.5)` `reverse(5)` `seek(3)`
`timeScale(0.25)` `timeScale(1)` `timeScale(2)`

GAME OVER

| | |
|-----------------------|---------------|
| Performance: | GSAP |
| Controls: | GSAP |
| Tweenable Properties: | GSAP |
| Workflow: | GSAP |
| Compatibility: | GSAP |
| Popularity: | jQuery |
| Conflict Management: | GSAP |
| Support: | Tie |
| Expandability: | jQuery |
| Learning Resources: | jQuery |
| Price & License: | jQuery |
| File Size: | GSAP |
| Flexibility: | GSAP |



- `var photo = document.getElementById("photo");
TweenLite.to(photo, 2, {width:"200px",
height:"150px"});`
- Selectors: “#id”, JavaScript, jQuery or Sizzle
- Any numeric CSS property, (+ autoAlpha)
- From, To, Set
- Duration, delay, Ease
- onComplete, onUpdate, onStart...
- Examples
(<https://dl.dropboxusercontent.com/u/61678096/GSAP/Tweening%20Basics/start.html>)
- Stagger (<https://dl.dropboxusercontent.com/u/61678096/GSAP/Staggered%20Animation/start.html>)
- TweenLite (24KB) vs TweenMax(94KB)

- Power0 to 4 (included)
- Other: plugin ([EaselPlugin.min.js](#))
- SlowMo (<http://www.greensock.com/v12/>)
- Bounce, Back, Elastic
- Resources (<http://www.greensock.com/get-started-js/#easing>)

- ```
var tl = new TimelineLite(); tl.add(
 TweenLite.to(element, 1, {left:100})); tl.add(
 TweenLite.to(element, 1, {top:50})); tl.add(
 TweenLite.to(element, 1, {opacity:0}));
```
- //then later, control the whole thing...  

```
tl.pause();
tl.resume();
tl.seek(1.5);
tl.reverse();
```

- ## Examples:

<https://dl.dropboxusercontent.com/u/61678096/GSAP/TimelineLite%20Control/finished.html>

<https://dl.dropboxusercontent.com/u/61678096/GSAP/Burger%20Boy%20Banner%20Done/index.html>

<https://dl.dropboxusercontent.com/u/61678096/GSAP/Promo%20Done/index.html>

<https://dl.dropboxusercontent.com/u/61678096/GSAP/Island%20Tours%20Dynamic%20Navigation%20Done/full-project-finished.html>

<http://att.jobs/>

<https://dl.dropboxusercontent.com/u/61678096/GSAP/demo2.html>



- TextPlugin (premium)  
(<https://dl.dropboxusercontent.com/u/61678096/GSAP/Quote%20with%20SplitText/finished.html>)
- Biezer (create path for your animation)
- Physics 2D and 3D (premium)
- AttrPlugin
- Draggable (premium)  
(<http://www.greensock.com/draggable/>)

- Jump Start (<http://www.greensock.com/jump-start-js/>)
- Get started (<http://www.greensock.com/get-started-js/>)
- CSS3 3D transforms (<http://www.greensock.com/css3/>)
- Docs (<http://api.greensock.com/js/>)
- CodePen (<http://codepen.io/GreenSock>)
- License (<http://www.greensock.com/club/>)