



GreenSock Animation Platform

For JavaScript



What is GreenSock?

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



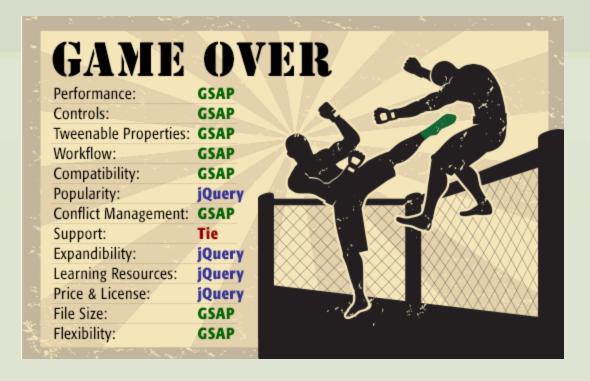
Why GreenSock?

- Faster that 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





GreenSock vs. jQuery



GreenSock Engaging the Internet

TweenLite and TweenMax

```
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)

Ease

- 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)



TweenLite and TweenMax

```
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



Extra plugins

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/



Resources

- 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/)