

I N P U T

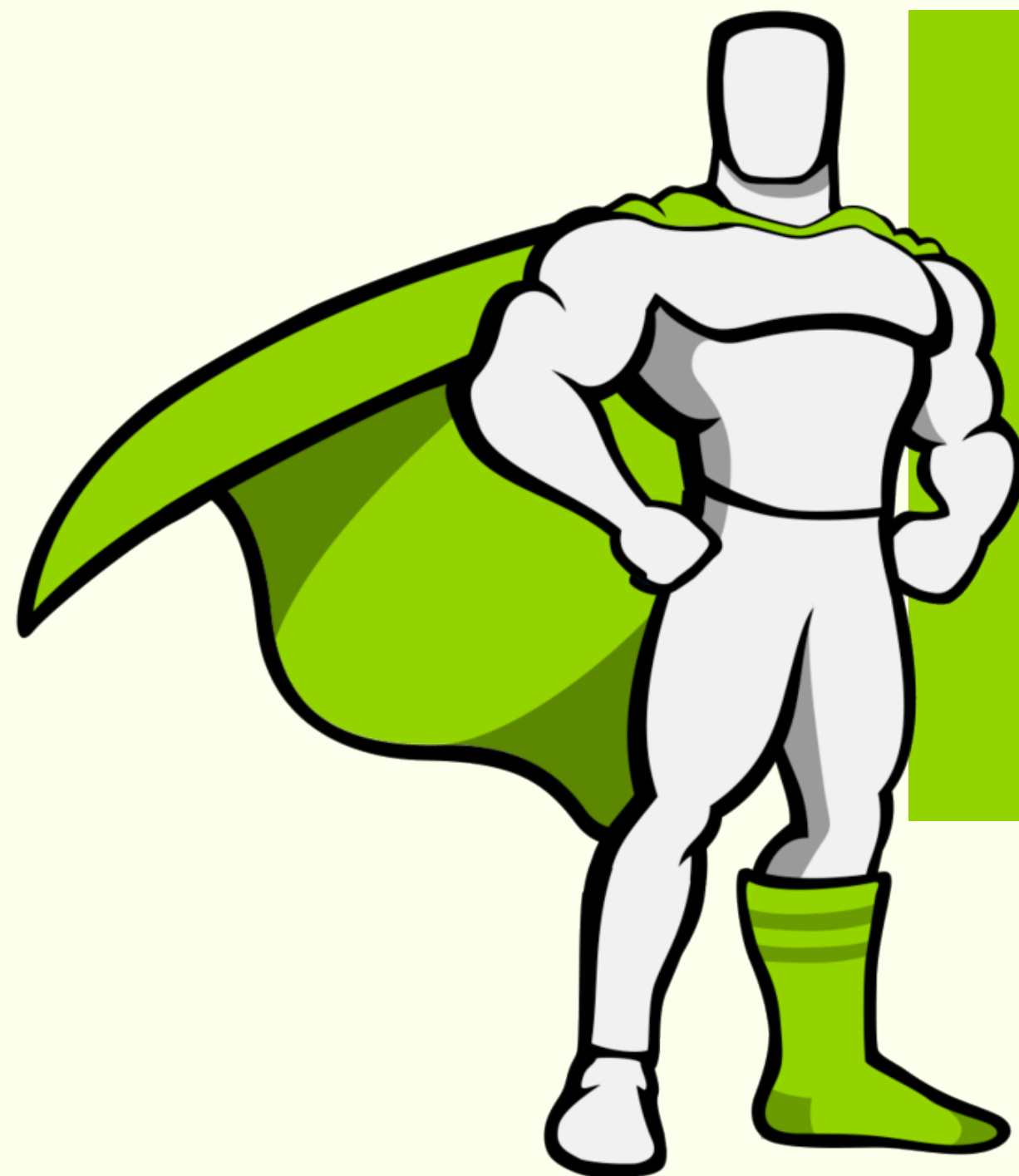
GreenSock

/

GSAP

GreenSock

W A S I S T D A S ?



GSAP ist eine branchenübliche JavaScript Animations-Library von GreenSock, mit der Sie Hochleistungsanimationen erstellen können, die in jedem gängigen Browser funktionieren.

Inhalt

I N S T A L L A T I O N

D O K U M E N T A T I O N

G R U N D L A G E N

T I M E L I N E

S C R O L L T R I G G E R

T U T O R I A L S

Installation 1

HTTPS://GREENSOCK.COM/DOCS/V3/INSTALLATION



GSAP 3 Install Helper

This tool helps you include GSAP in your project more easily.

To load GSAP using a build tool, click on the Modules/NPM tab. Select the files and options that you want below and it'll update the output accordingly

All the bonus plugins are available to test-drive on CodePen, CodeSandbox and locally via our [GSAP-trial](#) package. Once you're done experimenting - join [Club GreenSock](#) to get full access!

CDN

Modules / NPM

CodePen

CodeSandbox & local

☒ GSAP's core

Extra Plugins

- ☐ Flip
- ☐ ScrollTrigger
- ☐ Observer
- ☐ ScrollTo
- ☐ Draggable
- ☐ Easel

Club Plugins

- ☐ DrawSVG
- ☐ ScrollSmoother
- ☐ GSDevTools
- ☐ Inertia
- ☐ MorphSVG
- ☐ MotionPathHelper
- ☐ Physics2D

Extra Eases

- ☐ EasePack
- ☐ ExpoScaleEase
- ☐ RoughEase
- ☐ SlowMo
- ☐ CustomEase
- ☐ CustomBounce
- ☐ CustomWiggle

☐ Easel ☐ Physics2D ☐ CustomWiggle
☐ MotionPath ☐ PhysicsProps
☐ Pixi ☐ ScrambleText
☐ Text ☐ SplitText

Browser code

COPY CODE

```
<script src="https://cdnjs.cloudflare.com/ajax/libs/gsap/3.10.2/gsap.min.js"></script>
```

Installation 2

CODE KOPIEREN UND IM HTML.FILE EINFÜGEN

adrian_bumann_kickweb1_2022 > <> index.html > html > head

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8   <link rel="stylesheet" href="main.css">
9   <script src="https://cdnjs.cloudflare.com/ajax/libs/gsap/3.10.2/gsap.min.js" defer></script>
10
11
12 </head>
```

Dokumentation

[HTTPS://GREENSOCK.COM/DOCS/](https://greensock.com/docs/)

Grundlagen

```
# main.css M JS script.js <> index.html M x
adrian_bumann_kickweb1_2022 > <> index.html > html > head
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, ini
7      <title>Document</title>
8      <link rel="stylesheet" href="main.css">
9      <script src="https://cdnjs.cloudflare.com/ajax/libs/gsap/3.9.0/gsap.min.js"></script>
10     <script src="script.js" defer></script>
11
12
13  </head>
```

```
# main.css M JS script.js • <> index.html M
gsap_totrial > nr1 > JS script.js
1
```

. JS DOKUMENT ERSTELLEN UND VERLINKEN

Grundlagen

`gsap.from()` *von GSAP zur aktuellen
CSS Formatierung animiert*

`gsap.to()` *von aktuellen CSS Formatierung
zu GSAP animiert*

`gsap.fromTo()` *von GSAP zu GSAP Formatierung
(mit Komma getrennt)*

Grundlagen

*Klassennamen,
der animiert werden soll*



```
g s a p . f r o m ( ' . c l a s s ' , { } )
```

```
g s a p . t o ( ' . c l a s s ' , { } )
```

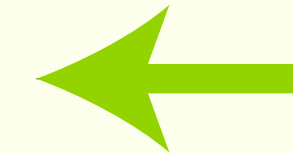


sich verändernde Werte

Grundlagen

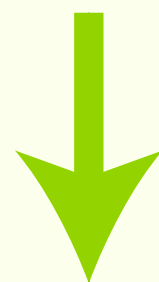
```
x : 0 ,  
y : 0 ,  
opacity : 0 ,  
scale : 0 ,  
rotation : 0 ,  
duration : 0 ,  
delay : 0 ,  
ease : in  
}
```

*ein paar der
möglichen Einstellungen*



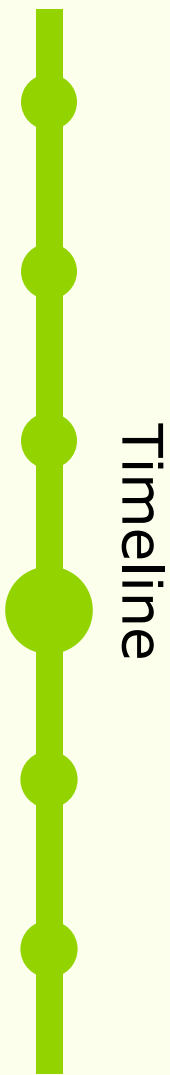
Timeline

`gsap.timeline({ })` *zum erstellen einer GSAP Timeline*



*Tipp: erstellen von einer Konstanten
(Übersicht + Effizienz)*

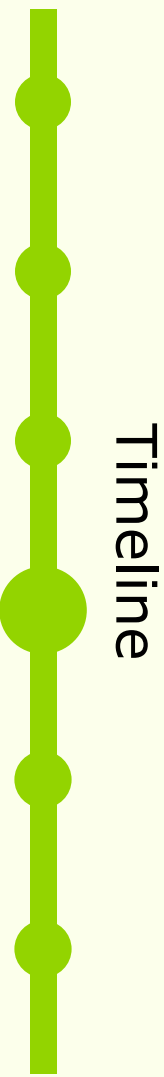
`const` `tl = gsap.timeline({ })`




Timeline

Timeline

```
tl.to('class', { })  
    .to('class2', { })  
    .to('class3', { })
```



Scroll Trigger



GSAP 3 Install Helper

This tool helps you include GSAP in your project more easily.

To load GSAP using a build tool, click on the Modules/NPM tab. Select the files and options that you want below and it'll update the output accordingly

All the bonus plugins are available to test-drive on CodePen, CodeSandbox and locally via our **GSAP-trial** package. Once you're done experimenting - join **Club GreenSock** to get full access!

CDN

Modules / NPM

CodePen

CodeSandbox & local

☒ GSAP's core

Extra Plugins

- ☐ Flip
- ☒ ScrollTrigger
- ☐ Observer
- ☐ ScrollTo
- ☐ Draggable
- ☐ Easel
- ☐ MotionPath
- ☐ Pixi
- ☐ Text

Club Plugins

- ☐ DrawSVG
- ☐ ScrollSmoother
- ☐ GSDevTools
- ☐ Inertia
- ☐ MorphSVG
- ☐ MotionPathHelper
- ☐ Physics2D
- ☐ PhysicsProps
- ☐ ScrambleText
- ☐ SplitText

Extra Eases

- ☐ EasePack
- ☐ ExpoScaleEase
- ☐ RoughEase
- ☐ SlowMo
- ☐ CustomEase
- ☐ CustomBounce
- ☐ CustomWiggle

Browser code

COPY CODE

```
<script src="https://cdnjs.cloudflare.com/ajax/libs/gsap/3.10.2/gsap.min.js"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/gsap/3.10.2/ScrollTrigger.min.js">
</script>
```

```
adrian_bumann_kickweb1_2022 > < sprint3.html > html > body > div.wrapper > div > div.content1 > div.choir-image
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>This Is AMERICA</title>
8   <link rel="stylesheet" href="main.css">
9   <script src="https://cdnjs.cloudflare.com/ajax/libs/gsap/3.10.2/gsap.min.js" defer></script>
10  <script src="https://cdnjs.cloudflare.com/ajax/libs/gsap/3.10.2/ScrollTrigger.min.js" defer></script>
11  <script src="script.js" defer></script>
12 </head>
```

*ScrollTrigger Plugin
im file einbetten*

```
# main.css M JS script.js .../nr1 JS script.js .../nr7 timeLi
gsap_totrial > nr7 timeLine > JS script.js > ...
1 gsap.registerPlugin(ScrollTrigger);
2
3
```

Scroll Trigger

wird animiert sobald,

```
gsap.to('.square', {  
  x: 700,  
  duration: 3,  
  scrollTrigger: '.square2'  
})
```

*diese Klasse im Viewport
erscheint*

Scroll Trigger

```
gsap.to('.square', {  
  x: 700,  
  duration: 3,
```

```
  scrollTrigger: {
```

*definiert den Bereich, in
dem Animation anfängt*



```
    trigger: '.square',  
    start: 'top 80%',  
    end: 'center 30%',  
    markers: true,
```

```
  )
```

Scroll Trigger

```
scrollTrigger: {  
  trigger: '.square',  
  start: 'top 60%',  
  end: 'top 40%',
```

```
toggleActions:  
'restart pause resume reverse',
```

onEnter

onLeave

onEnterBack

onLeaveBack



*was passiert mit den
Animationen wenn sie im Bereich /
ausserhalb sind*

Scroll Trigger

```
scrollTrigger: {  
  trigger: '.square',  
  start: 'top 60%',  
  end: 'top 40%',
```

```
scrub: true,
```

```
// if put a value it gets smoother
```



Animation wird durchs scrollen beeinflusst

Scroll Trigger

```
scrollTrigger: {  
  trigger: '.square',  
  start: 'top 60%',  
  end: 'top 40%',
```

```
pin: true,
```

```
// if put a class, it will get pinned
```



*Die gewählte Klasse wird auf dem
Bildschirm gepinnt*

Tutorials:

`https://www.youtube.com/-
watch?v=WEky7V490Rs&list=-
PLMPgoZdIPu-
mexxtvuPUB3TY7LExI1N_Xp`