



ANIMATE YOUR SITE

Dia Huit Everyone

Welcome you all. Here we are going to talk about Animation.

So, Lets get started!





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What Will Be Discussed??

- What Is Animation?
- How It All Started?
- Why Animation?
- 12 Basic Principles of Animation
- When to use Animation?
- Where Animation Can Be Used?
- How To Use Animation?
- Responsive Animation
- Performance
- Demo





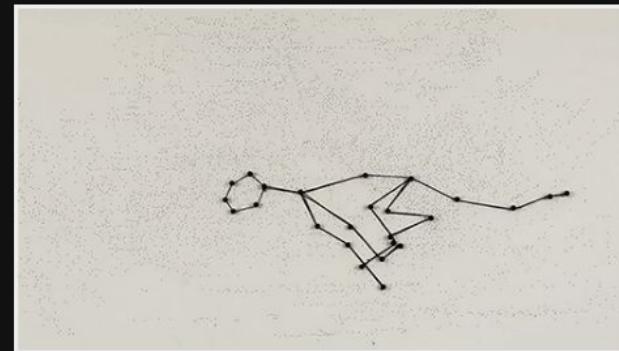
What Is Animation?





Animation

Ability to add life in object to let them **breathe, move and get settled down** is Animation.

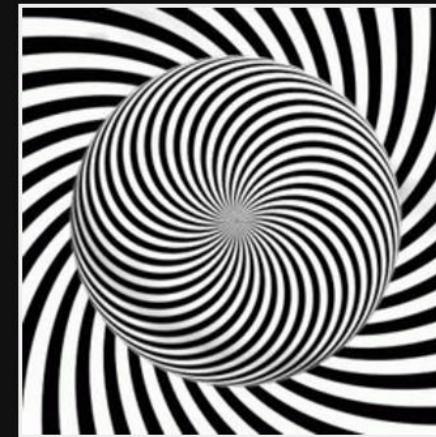
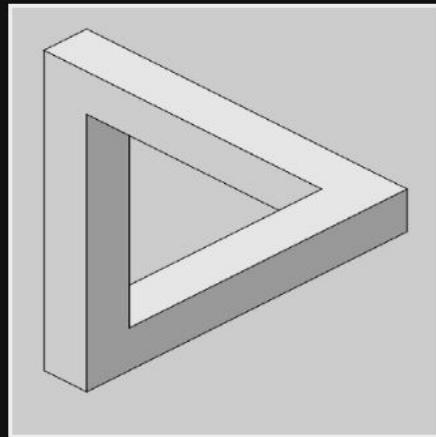


Animation v/s Illusion

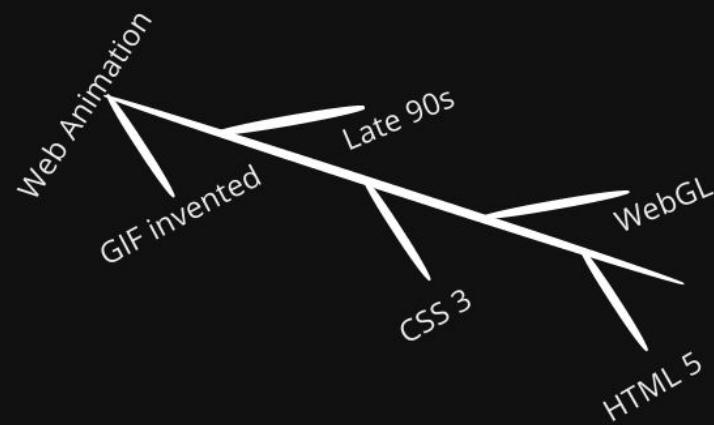


Illusion

Show the false thing true and create the belief that something unusual also possible is illusion.



How It All started (History)





Why Animation?

- Increase Usability
- Guide The User
- For Branding
- Help User To Visualize

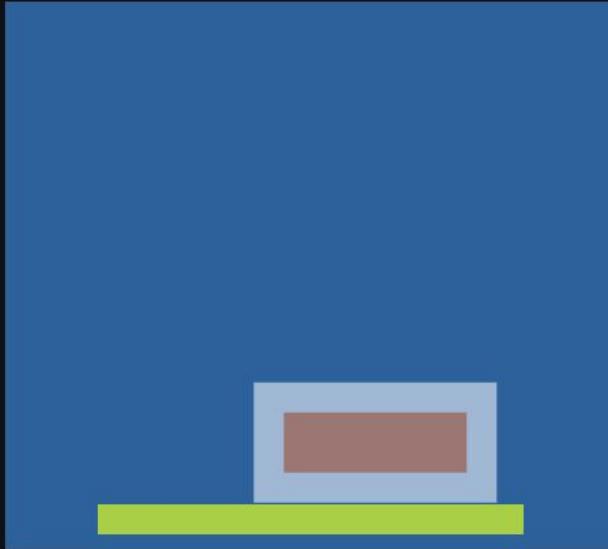




12 Basic Principles Of Animation

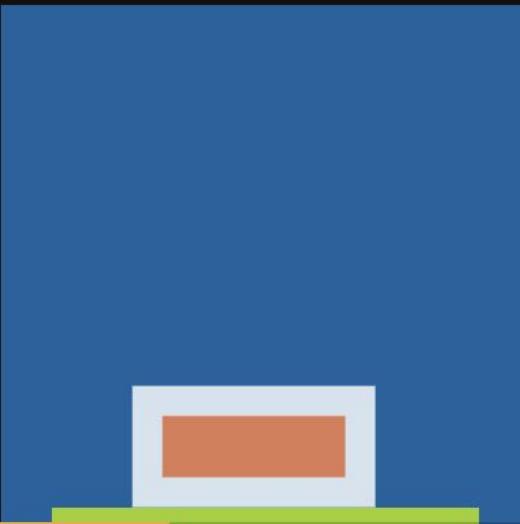


1. Squash & Stretch





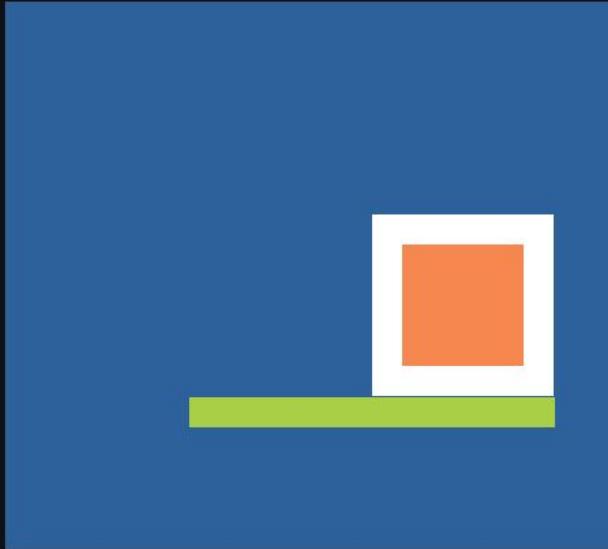
```
<div class="demo steps step-one">
  <div class="wrapper">
    <div class="container"></div>
    <div class="surface"></div>
  </div>
</div>
```



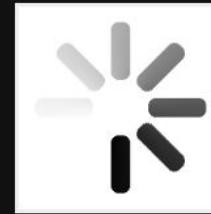
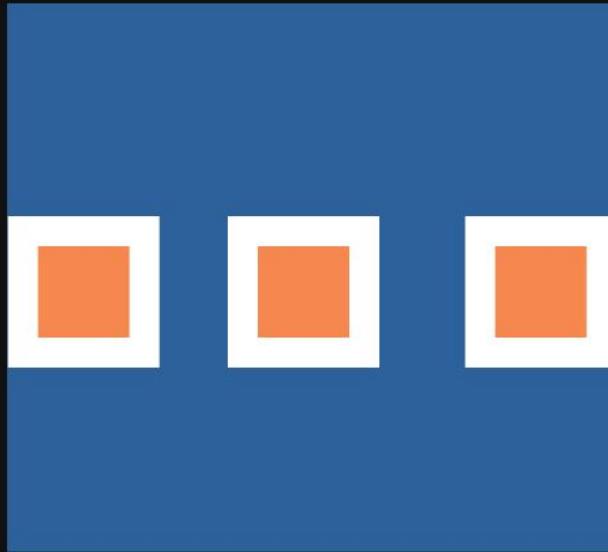
```
.step-one .container {
  -webkit-animation:one 4s infinite ease-out;
  animation:one 4s infinite ease-out;
}
@keyframes one {
  0%, 15% {
    opacity: 0;
  }
  15%, 25% {
    -webkit-animation-timing-function: cubic-bezier(1, -1.92, 0.95, 0.89);
    animation-timing-function: cubic-bezier(1, -1.92, 0.95, 0.89);
    opacity: 1;
  }
  35%, 45% {
    -webkit-transform: translateY(6.5em);
    transform: translateY(6.5em);
    -webkit-animation-timing-function: linear;
    animation-timing-function: linear;
    opacity: 1;
  }
  70%, 90% {
    -webkit-transform: translateX(5em) translateY(6.5em);
    transform: translateX(5em) translateY(6.5em);
  }
  91%, 100% {
    opacity: 0;
  }
}
```



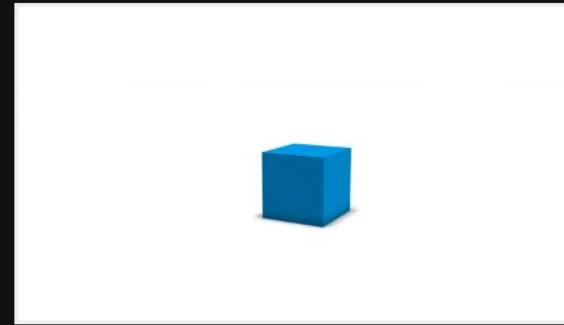
2. Anticipation



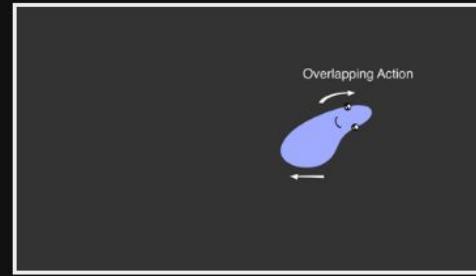
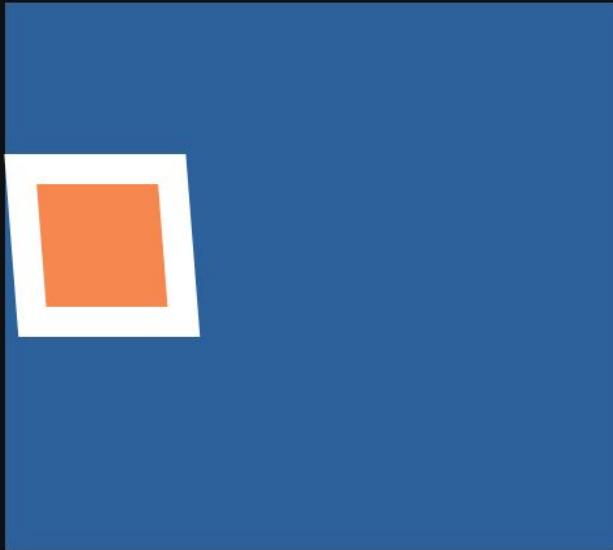
3. Staging



4. Straight Ahead Action & Pose-to-Pose

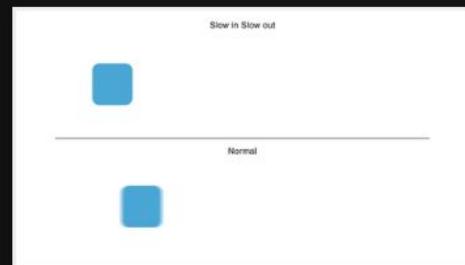


5. Follow Through and Overlapping Action



6. Slow In and Slow Out

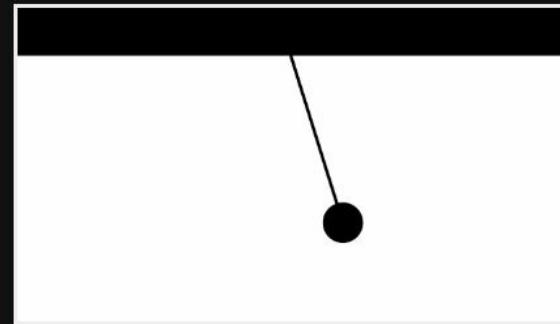
Slow In - Slow Out



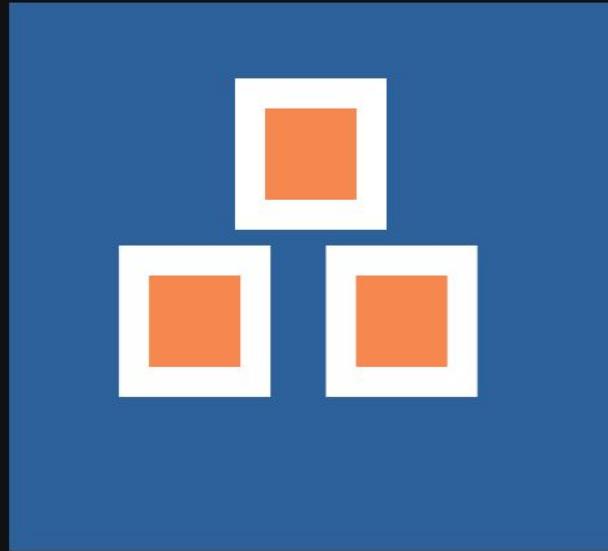
Normal



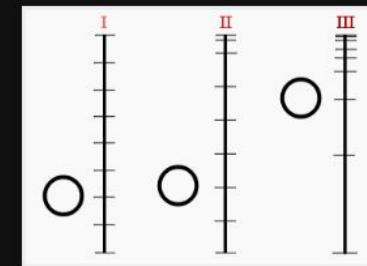
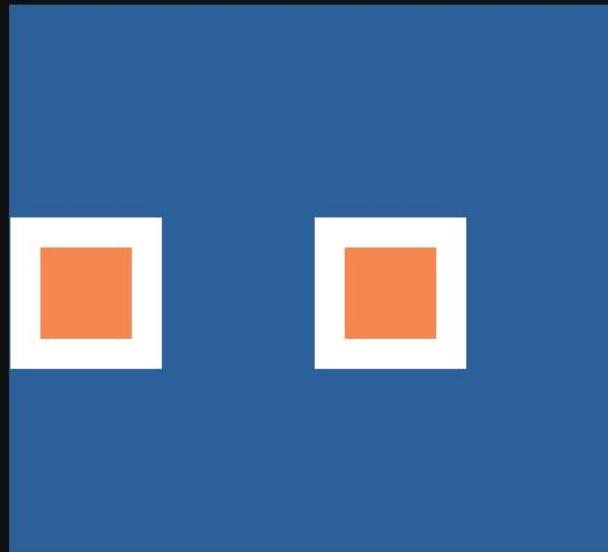
7. Arc



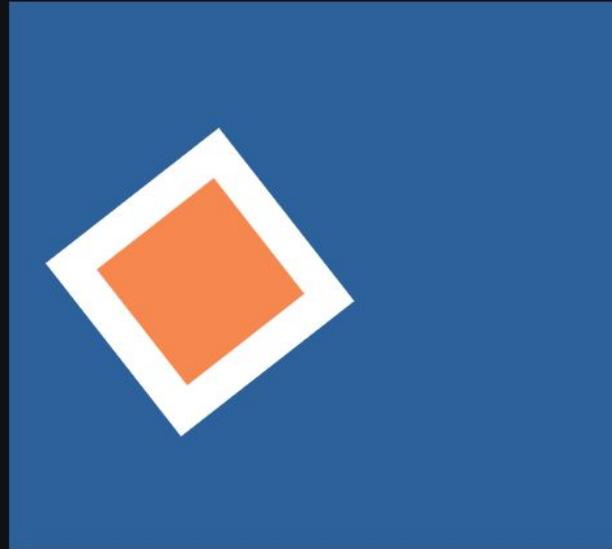
8. Secondary Action



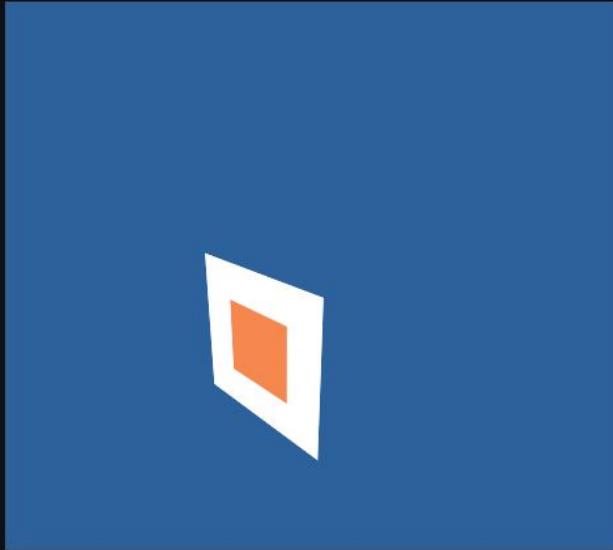
9. Timing



10. Exaggeration



11. Solid Drawing



12. Appeal



When To Use Animation

- To enhance the design
- Interactive Web Application
- Storytelling





Where Animation Can Be Used

- Navigation
- Registration / Subscription form
- Related elements Animation





How To Use Animation

- Interface Element Animation
- Waiting Animation
- Decorative Animation





Responsive Animation





Animation needs **space** to perform

2 Basic Technique to maintain the balance between Animation and Devices





Focused Art Direction





```
@media screen and (max-width: 768px) {  
  #section2 .content-wrapper .part {  
    width: 49%;  
    margin-bottom: 1%;  
    margin-left: 0%;  
  }  
  #section2 .content-wrapper .part.part1 {  
    color: red;  
    opacity: 1;  
  }  
  #section2 .content-wrapper .part.part1:hover {  
    transform: scale(1);  
  }  
  #section2 .content-wrapper .part.part2 {  
    color: green;  
    opacity: 1;  
  }  
  #section2 .content-wrapper .part.part2:hover {  
    transform: scale(1);  
  }  
  #section2 .content-wrapper .part.part3 {  
    color: #2b736d;  
    opacity: 1;  
  }  
  #section2 .content-wrapper .part.part3:hover {  
    transform: scale(1);  
  }  
  #section2 .content-wrapper .part.part4 {  
    color: blue;  
    opacity: 1;  
  }  
  #section2 .content-wrapper .part.part4:hover {  
    transform: scale(1);  
  }  
  #section2 .content-wrapper .description {  
    opacity: 1 !important;  
  }
```





Responsive Choreography



```
$('window').resize(function () {  
    .  
});  
  
if($('document').width() < 800) {  
    .  
}
```





Performance





The Heaviest Properties of CSS3

- translate 3d
- backface-visibility
- will-change





Pick The Correct Technology

Use of CSS3 will always be a high priority

Javascript overkills the performance

e.g. For small - Always css should use and for more robust logic of animation we
should use javascript based animation



Animate The Most Performant Properties

- Opacity
- Scale
- Rotation
- Position



Animation In Drupal

As drupal is a CMS, it is very essential to do animation to present the contents more effectively.

Various ways we can implement animation in drupal.

Drupal 7:

- Animate.css
- Block Animation
- wow.js
- fullpage.js (in sandbox)

Drupal 8

- Either contribute
- Or use the relevant .css or .js file





Any Question?

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vidit.anjaria@faichi.com or @vidit_27





Reference Links

- <http://journey.lifeofpimovie.com/#!/mysterious-island>
- <https://cssanimation.rocks/principles/>
- <http://alternopolis.com/>
- <http://www.pd4pic.com/illusion/>
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- <http://www.abbottmedia.net/blogPosts/Make-Your-Animation-More-Realistic.php>
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- <http://developer.playcanvas.com.s3-website-eu-west-1.amazonaws.com/images/tutorials/beginner/keepyup-part-five/particle-bounce.gif>
- http://pivottube.pl/images/articles/timing_spacing_i_pozy/animacja11a.gif





Reference Links ... Continue

- <http://i.makeagif.com/media/7-27-2015/36czhu.gif>
- <https://d13yacurqjgara.cloudfront.net/users/104778/screenshots/2201051/button.gif>
- <http://2.bp.blogspot.com/-co7lpsZu5Q4/Ve50PnBzH4I/AAAAAAABowU/aid5DhQW7xQ/s1600/straightaheadpose2pose.gif>
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- <https://css-tricks.com>
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- <https://www.smashingmagazine.com/2014/11/the-state-of-animation-2014/>
- <https://24ways.org/2014/five-ways-to-animate-responsibly/>
- <https://24ways.org/2015/animation-in-responsive-design/>



That's All

Thank You!!





Feedback

Best way to give feedback is to evaluate us

<https://events.drupal.org/dublin2016/sessions/animate-your-site>

