Simple Use Case

```
myAnimObj = new YAHOO.util.Anim("myDiv", {width:
  {to: 100}, height: {to: 100}});
myAnimObj.animate();
```

Makes the HTML element whose id attribute is "myDiv" resize to a height and width of 100 pixels.

Constructor (YAHOO.util.Anim, ColorAnim, etc.)

```
YAHOO.util.Anim(str | element target, obj
  attributes[, num duration, obj easing]);
```

Arguments:

- (1) Element id or reference: HTML ID or element reference for the element being animated.
- (2) Attributes object: Defines the qualities being animated; see below.
- (3) **Duration:** Approximate, in seconds.
- (4) **Easing:** Reference to an easing effect, member of YAHOO.util.Easing.

Attributes Obiect

```
animAttributes = {
 animatedProperty: {
   by: 100, //start at current, change by this much
    to: 100, //start at current, go to this
    from: 100, //ignore current; start from this
    unit: 'em' //can be any legal numeric unit
```

Note: Do not include to and by for the same animation property.

Animation Properties

Use Animation to apply gradual transitions to these properties*:

borderWidth height bottom margin fontSize opacity left lineHeight right padding width

*or to any other member of an element's style object that takes a numeric value

Dependencies

Animation requires the YAHOO Global Object, Dom Collection, and Event Utility.

Interesting Moments in Animation Event Fires... **Arguments** onStart ...when anim begins onTween ...on every frame onComplete ...when anim ends [0] {frames: total frames, fps: frames per second, duration: of animation in miliseconds}

These are Custom Event members of YAHOO.util.Anim: use these by subscribing: myAnimInstance.onComplete.subscribe(myOnCompleteHandler);

Using the Motion Subclass

Use the Motion subclass to define animations to/from a specific point. using (optional) begier control points.

```
var attributes = {
  points: {
    to: [250, 450],
    control: [[100, 800], [-100, 200], [500, 500]]}};
var anim = new YAHOO.util.Motion(element,
  attributes, 1, YAHOO.util.Easing.easeIn);
```

Using the ColorAnim Subclass

Use the ColorAnim subclass to background, text or border colors.

```
var mvAnim = new YAHOO.util.ColorAnim(element, {back
  groundColor: { to: '#dcdcdc' } });
myAnim.animate();
```

Using the Scroll Subclass

Use the Scroll subclass to animate horizontal or vertical scrolling of an overflowing page element.

```
var attributes = {
  scroll: { to: [220, 0] }
var anim = new YAHOO.util.Scroll(element,
  attributes, 1, YAHOO.util.Easing.easeOut);
```

Solutions

Subscribe to an API method:

```
myAnimObj = new YAHOO.util.Anim(element, {width:
  {to: 100}, height: {to: 100}});
myHandler = function(type, args) {
  someDiv.innerHTML = args[0].fps; //gets frames-
  per-second from the onComplete event}
myAnimObj.onComplete.subscribe(myHandler);
myAnimObj.animate();
```

YAHOO.util.Anim: **Properties**

attributes (obj) currentFrame (int) duration (num) totalFrames (int) useSeconds (b)

YAHOO.util.Anim: Methods

animate() qetEI() getStartTime() isAnimated() stop(bFinish) if true, advances to last frame of animation

Easing Effects

Members of YAHOO.util.Easing

backBoth backIn backOut bounceBoth bounceln bounceOut easeBoth easeBothStrong easeIn easeInStrong easeNone default; no easing easeOut easeOutStrong elasticBoth elasticIn elasticOut