

Advanced Styling

With CSS



Agenda

- * Media Queries
- * CSS3 New Features
- * CSS3 Transitions and Animations
- * Twitter Bootstrap



Senators Introduce Revised Cybersecurity Legislation

The bi-partisan - Homeland Security and Governmental Affairs Committee Chairman Jim Leiberman, D-Del., Ranking Member Susan Collins, R-Maine, Commerce Committee Chairman Jay Rockefeller, D-W.Va., Select Intelligence Committee Chairman Diane Feinstein, D-Calif., and Federal Financial Management Subcommittee Chairman Tom Carper, D-Del. – refined the revised Cybersecurity Act of 2012 in a good faith effort to work towards bills to address the immediate threat of attack from foreign nations, hackers, criminals, and terrorists against the nation's most critical cyber systems. Read More >

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faith effort to secure enough votes to address the immediate threat of attack from foreign nations, hackers, criminals, and terrorists against the nation's most critical cyber systems. Read the press release. Read More >

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Senators Introduce Revised Cybersecurity Legislation

The bi-partisan - bi-partisan - Senators introduced new, revised legislation July 19, 2012, to protect our national security, economic security, and the everyday security that increasingly concerns us from increasingly numerous cyber attacks.

The co-sponsors - Homeland Security and Governmental Affairs Committee Chairman Jim Leiberman, D-Del., Ranking Member Susan Collins, R-Maine, Commerce Committee Chairman Jay Rockefeller, D-W.Va., Select Intelligence Committee Chairman Diane Feinstein, D-Calif., and Federal Financial Management Subcommittee Chairman Tom Carper, D-Del. – refined the revised Cybersecurity Act of 2012 in a good faith effort to work towards bills to address the immediate threat of attack from foreign nations, hackers, criminals, and terrorists against the nation's most critical cyber systems. Read More >

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MAJORITY NEWS ➤

LEIBERMAN, COLLINS, ROCKFELLER, FENSTER, CARRIER OFFER REVISED LEGISLATION TO IMPROVE SECURITY OF OUR MOST CRITICAL PRIVATE-SECTOR CYBER SYSTEMS

JULY 19

LEIBERMAN, COLLINS RESPOND TO WHITEHAT REPORT

JULY 19

SUBCOMMITTEE DEPLOYS LATEST ADVISES BY DSA

JULY 19

MINORITY NEWS ➤

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JULY 19

FINANCIAL TRANSPARENCY REQUIREMENTS LEADERSHIP / RESOURCES

JULY 19

CALENDAR ➤

26
House Hearing: Assessing OIG's Role in Homeland Security and Unemployment Benefits
Witness: Subcommittee on Investigations
Room: S-210, Dirksen Senate Office Building
10:30AM – 11:30AM
[A 40913 WITNESS LIST](#)

25
Assessing OIG's Independence
Witness: Federal Agencies
Panel: Federal Accounting
OIG, Senate Office Building, room
SD-310
10:30AM – 11:30AM
[A 40913 WITNESS LIST](#)

20
Hearing of Senator Jim DeMint in his role as Chairman, Committee on Small Business and Entrepreneurship
Witness: OMB
Chairman: Diane Feinstein, D-Calif.
Subcommittee Chairman: Tom Carper, D-Calif.
Title: Cybersecurity Act of 2012 in a global battle to address the immediate threat of attack from individuals, and terrorists against the nation
Read More >

18
Senate Hearing: Read by 2010
Federal Financial Management
Senate Office Building, room
SD-310
10:30AM – 11:30AM

White House: Improving the Transparency of Federal Spending
Witness: OMB
10:30AM – 11:30AM

17
Senate Hearing: to Assess
Monitoring, Drugs, and Tobacco
Panels: Subcommittee on Investigations
Room: S-210, Dirksen Senate Office Building
10:30AM – 11:30AM

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present our national security, economic security from increasingly numerous cyber attacks.

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[1](#) [2](#) [3](#) [4](#)

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JULY 19

The Goal

- * Same website, Different devices
- * Best user experience for each device

Desktop - Mobile

U.S. Senate Committee on HOMELAND SECURITY & GOVERNMENTAL AFFAIRS

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CALENDAR [MORE](#)

SEP 20 Offshore Profit Shifting and the U.S. Tax Code Permanent Subcommittee on Investigations Room G-50, Dirksen Senate Office Building 09:00PM – 08:00PM

SEP 19 Investing in an Effective Federal Workforce Oversight of Government Management SD-342, Dirksen Senate Office Building 02:30PM – 04:00PM

Homeland Threats and Agency Responses SD-342, Dirksen Senate Office Building 10:00AM – 12:00PM

SEP 13 Social Security Disability Programs: Improving the Quality of Benefit Award Decisions Permanent Subcommittee on Investigations Room 343, Dirksen Senate Office Building 09:30AM

SEP 12 Moving from Scandal to Strategy: The Future of the General Services Administration SD-342, Dirksen Senate Office Building 10:00AM – 12:00PM

JUL 31 State of Federal Privacy and Data Security Law: Logging Behind the Times! Oversight of Government Management



Senators Urge House to Act Before PMG Closes Post Offices

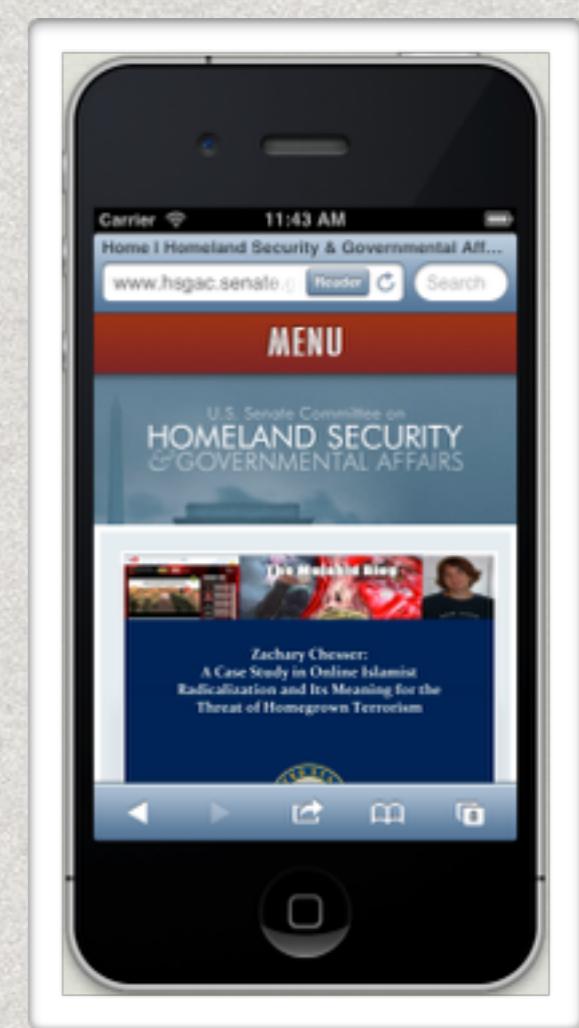
The four Senate authors of bipartisan postal reform legislation have written to House leaders asking them to move swiftly on a reform bill to stop the loss of \$25 million a day by the U.S. Postal Service and preserve an iconic American institution that still delivers 550 million pieces of mail daily.

In the meantime, Postmaster General Patrick Donahoe has begun to downsize the postal service - fortunately in a way that is consistent with Senate-passed postal reform legislation. But the urgency for House action increases with each passing day if the downsizing is to be fair and orderly. The Senate bill was approved April 25 on a strong bipartisan vote of 62-37.

The Postmaster general announced May 9 that he would begin reducing hours of service at 13,000 post offices nationwide. And on May 17, he announced that USPS would consolidate 48 mail processing plants this year and begin closing plants early next year. Chairman Lieberman was cautiously optimistic about both decisions.

The four Senators explain in a USA Today oped why their bill is the most reasonable approach to ensure the future of the USPS for millions of American people and businesses. The Senators hailed the legislation as a strong effort to put the USPS back on solid financial ground and prevent the wholesale closings of postal facilities.

Senators Lieberman, Collins, Capo, and Brown introduced a substitute to the 21st Century Postal Act, S.1789 in mid April to address concerns raised by a number of Senators, especially those who represent rural areas where post offices are heavily relied upon not just for mail but as centers of the community. The substitute amendment would give the USPS the flexibility and tools it needs to raise revenues, cut costs, and maintain its financial viability.



Responsive Tools

- * Media Queries
- * Modernizr
- * pxtoem.com
- * Web Developer Extension: <http://chrispederick.com/work/web-developer/>

Media Queries

- * Mobile devices vary in size and capabilities
- * CSS Media Queries allow us to use different css properties based on the device

Media Queries

- * The medium density device is delivered a 320x480 image
- * The high density device is delivered a 480x800 image



Media Queries Example

```
#header {  
    background:url(medium-density-image.png);  
}  
  
@media screen and (-webkit-device-pixel-ratio: 1.5) {  
    /* CSS for high-density screens */  
    #header {  
        background:url(high-density-image.png);  
    }  
}
```

And it's not just mobile...

THIS IS THE WEB.



Media Queries

- * Pixel density
- * Dimensions
- * Orientation

Demo Queries

Blue Body Background for larger screens

```
@media (min-device-width:300px) {  
    body { background: blue; }  
}
```

Demo Queries

Blue Body Background for smaller screens

```
@media (max-width:800px) {  
    body { background: blue; }  
}
```

Demo Queries

More info on landscape

```
@media (orientation:landscape) {  
    body { background: blue; }  
}
```

Media Queries

- * html5 mobile boilerplate provides a ready made empty css file with all of the above
- * <http://html5boilerplate.com/mobile/>

Other Tools

- * Modernizr
- * pxtoem.com
- * <http://lab.maltewassermann.com/viewport-resizer/>
- * Web Developer Extension: <http://chrispederick.com/work/web-developer/>

Media Queries Lab

- * Write a web page that shows a different image for large or small screen
- * Update to change image on orientation change

Q & A

- * Media Queries
- * CSS3 New Features
- * CSS3 Transitions and Animations
- * Twitter Bootstrap

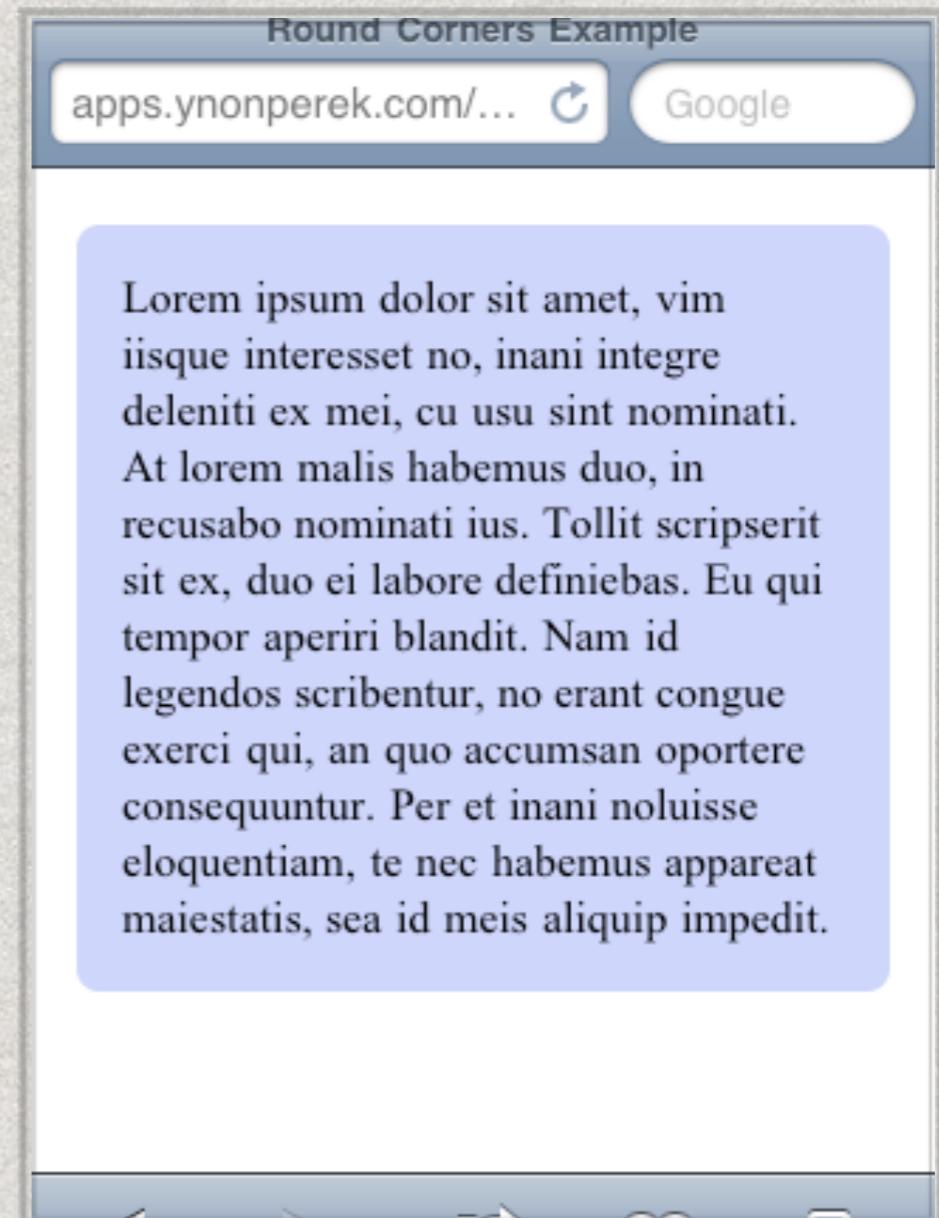
CSS3 New Features

- * Rounded Corners
- * Shadows
- * Gradients
- * Form Types
- * Flexbox Model

Rounded Corners

- * use **-prefix-border-radius** to get the effect
- * No need to use background images
- * Sample use:

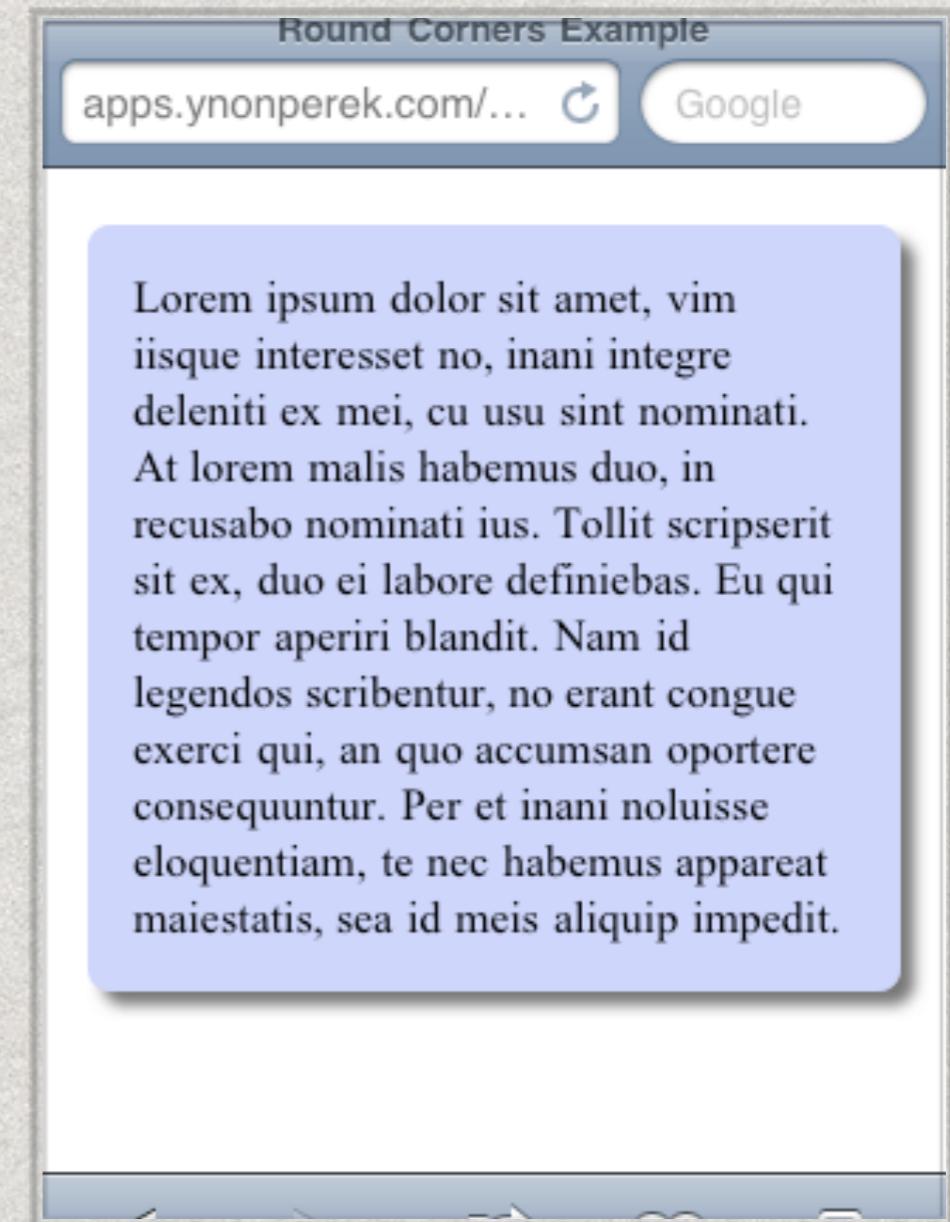
```
-webkit-border-radius: 8px;
```



Shadows

- * use **-prefix-box-shadow** to get a shadow effect
- * `rgba(0, 0, 0, 0.6)` will work as the shadow color
- * Sample Use:

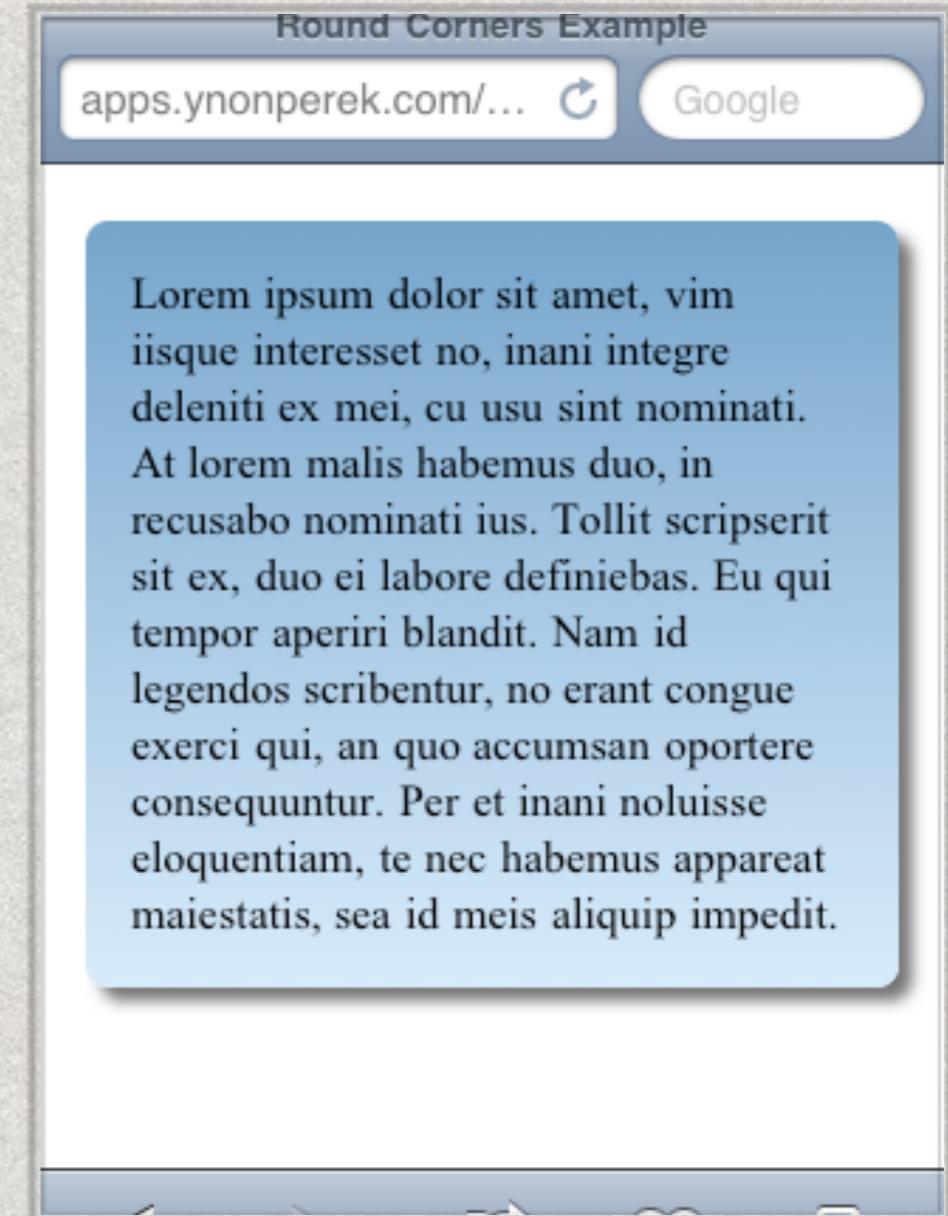
```
-webkit-box-shadow: 5px 5px 5px  
rgba(0, 0, 0, 0.6);
```



Gradients

- * CSS 3.0 added support for gradients
- * use them instead of background images to save bandwidth
- * Online gradient generator:

<http://www.colorzilla.com/gradient-editor/>



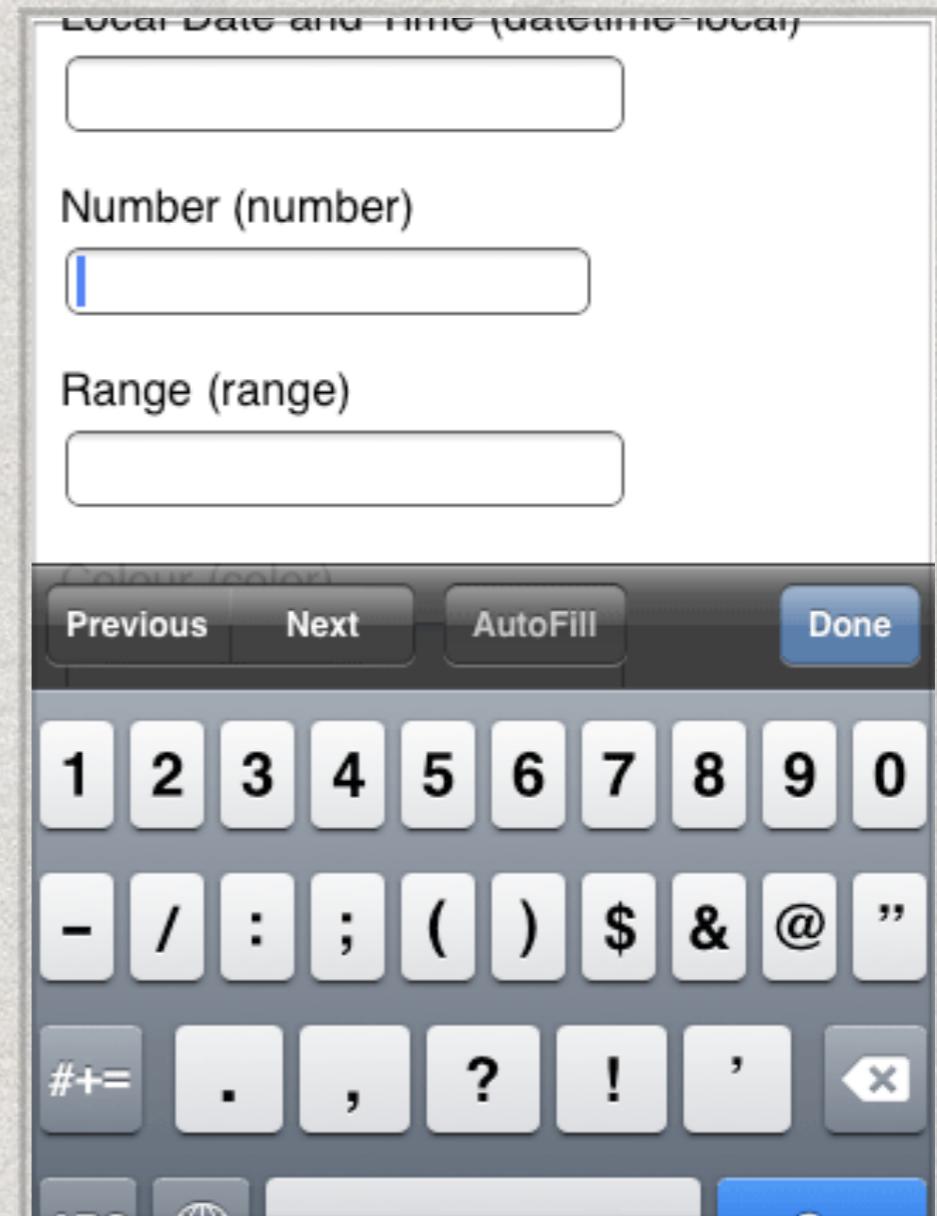
Input Types

- * input type="tel"
- * numeric keypad



Input Types

- * input type="number"
- * numbers/special chars keyboard



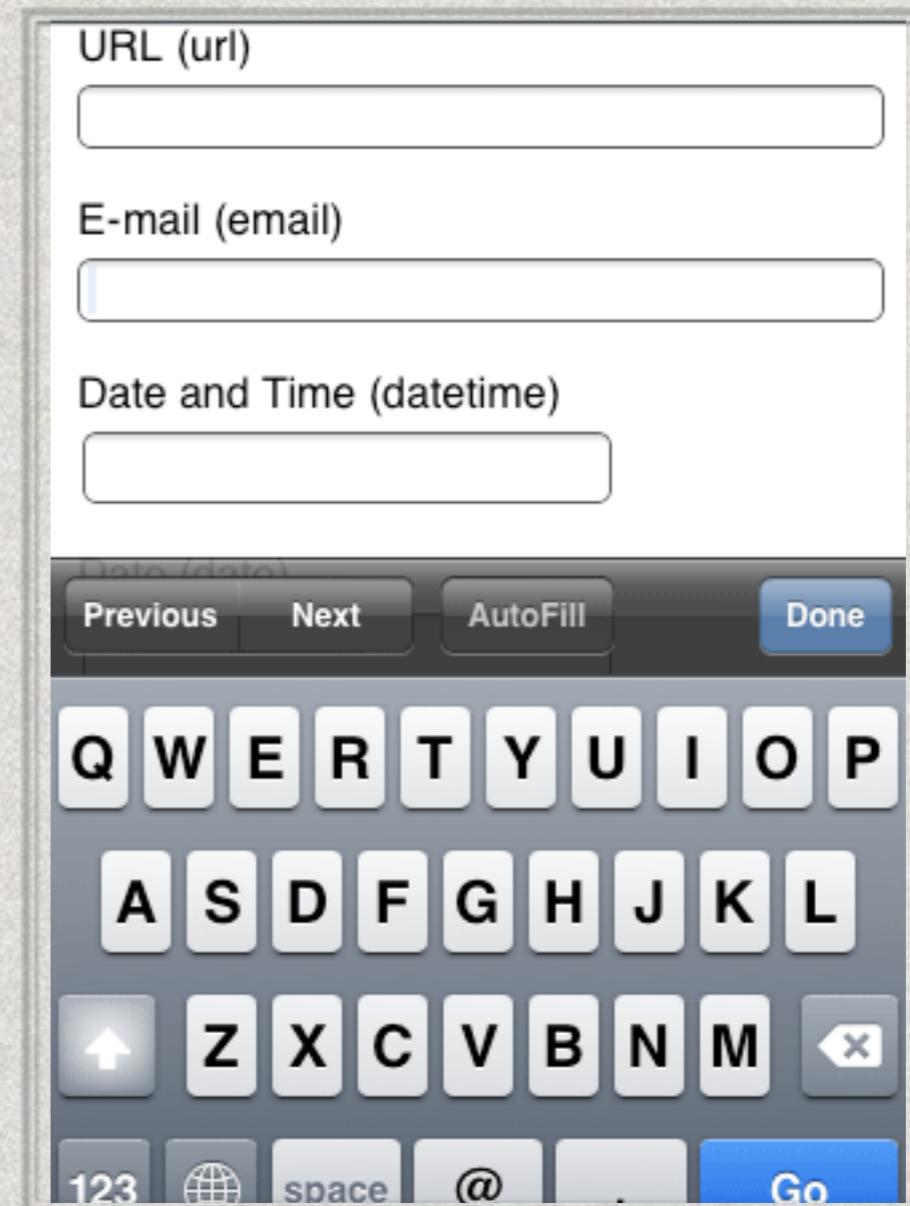
Input Types

- * input type="url"
- * opens url keypad



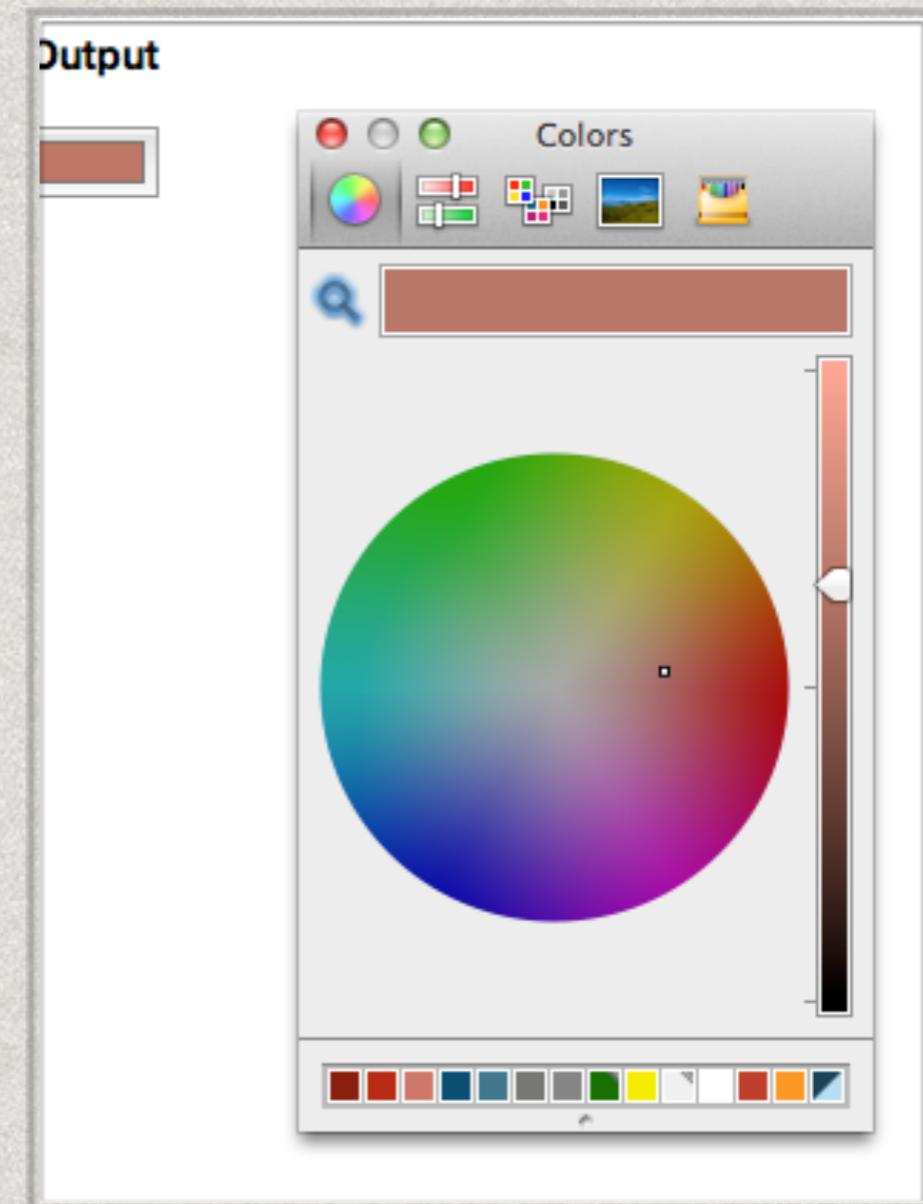
Input Types

- * `input type="email"`
- * email keypad (note the @)
- * email validation on supported browsers



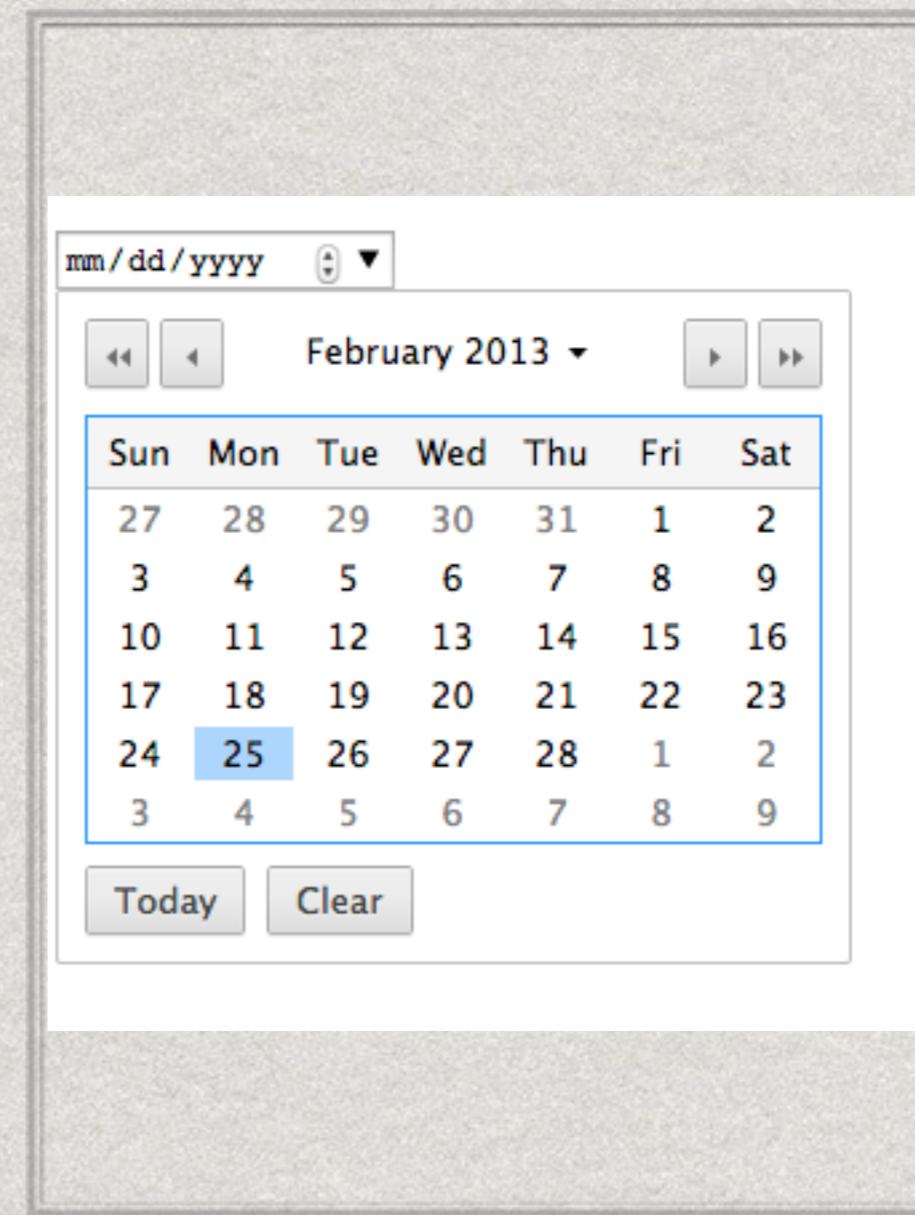
Input Types

- * input type="color"
- * Modal color picker



Input Types

- * input type="date"
- * Modal date picker



Input Types

- * input type="time"
- * Modal time picker

Output

06 : 20 AM 

The New Flex-Box

- * Use the new flex-box to easily describe column width

Small

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante. Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est. Mauris placerat eleifend leo.

Large

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante. Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est. Mauris placerat eleifend leo.

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Q & A

- * Media Queries
- * CSS3 New Features
- * CSS3 Transitions and Animations
- * Twitter Bootstrap

CSS Transition

- * Controls the transition between element states
- * Allows animating transitions
- * Uses 3D acceleration

Demo - Transitions

- * Each state is represented by a CSS class
- * Clicking the button changes element state



-webkit-transition

- * transition-property
- * transition-duration
- * transition-timing-function
- * transition-delay



transition-property

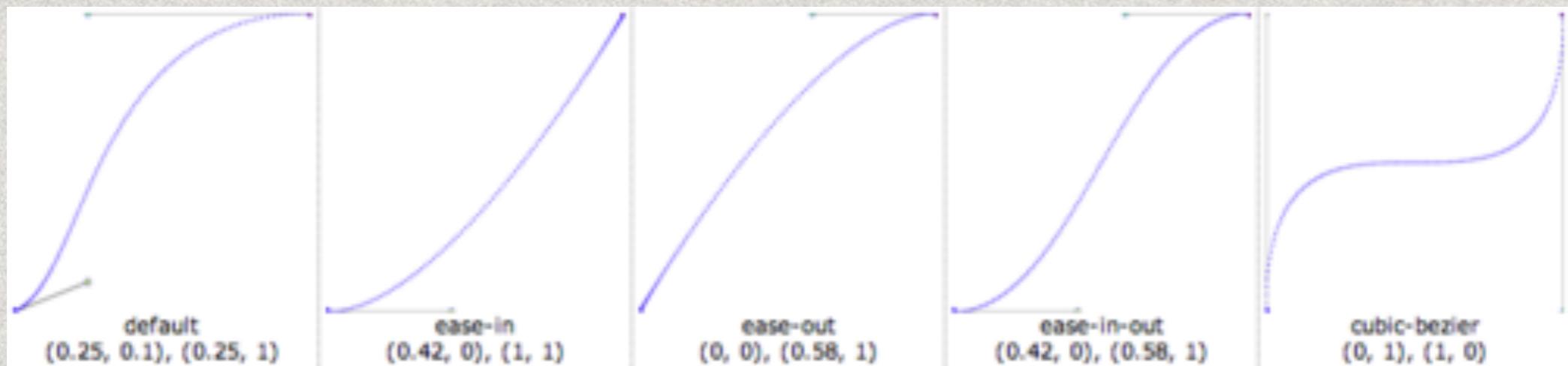
- ✳ Almost any property can be animated
- ✳ Use all to catch everything
- ✳ Full list at: [https://developer.mozilla.org/en/css/css transitions](https://developer.mozilla.org/en/css/css_transitions)

transition-duration

- ✳ How long the property animation should take
- ✳ Use time in seconds or ms (can be < 1s)

transition-timing-function

- * Determines the timing function for the animation



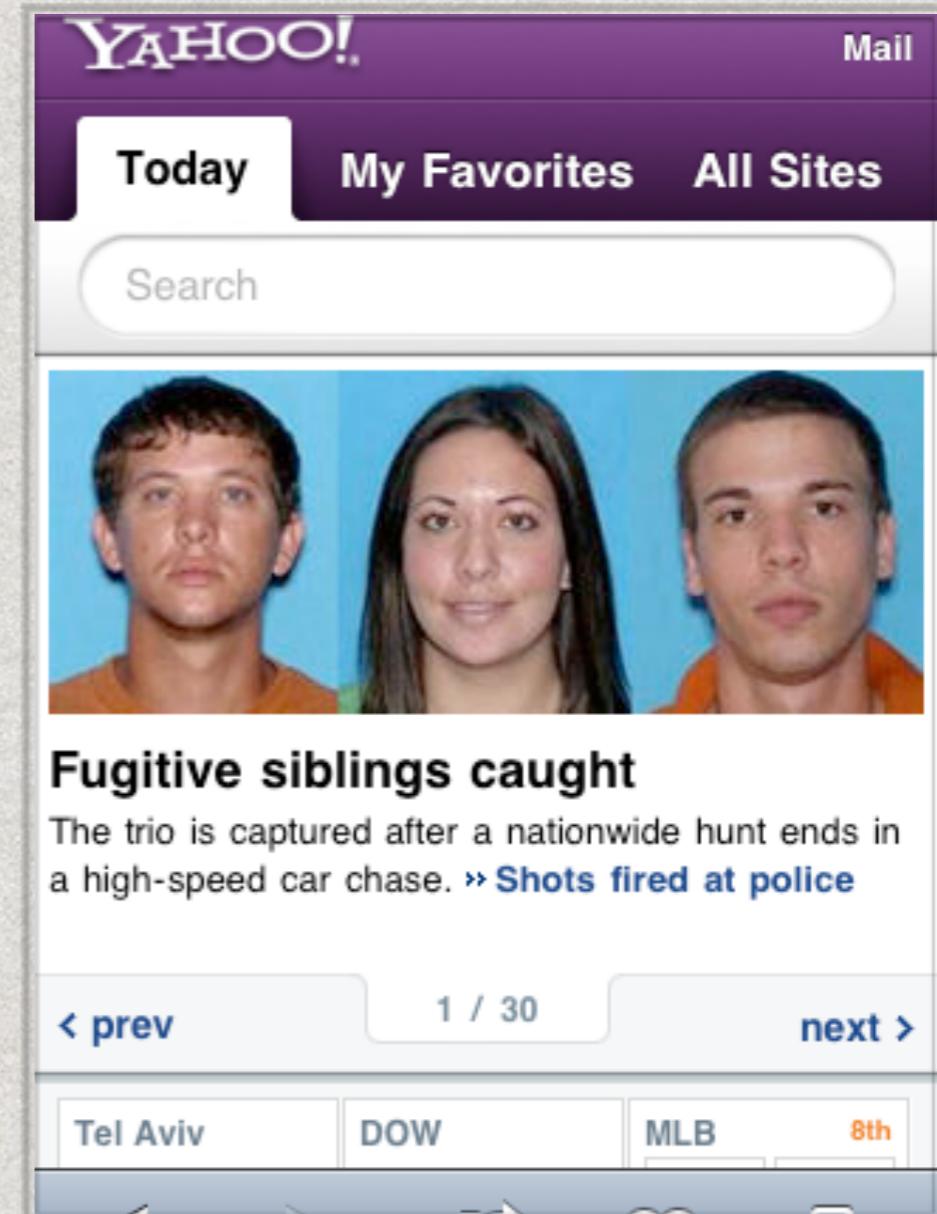
Live demo at: <http://www.the-art-of-web.com/css/timing-function/>

transition delay

- * Delay between value change and animation start
- * Can be used to coordinate multiple animating objects

Exercise

- * Implement a yahoo style “top news” section
- * Click next to animate to the next image
- * Click prev to animate to the previous image
- * Hint: 3 divs inside a container, and animate position

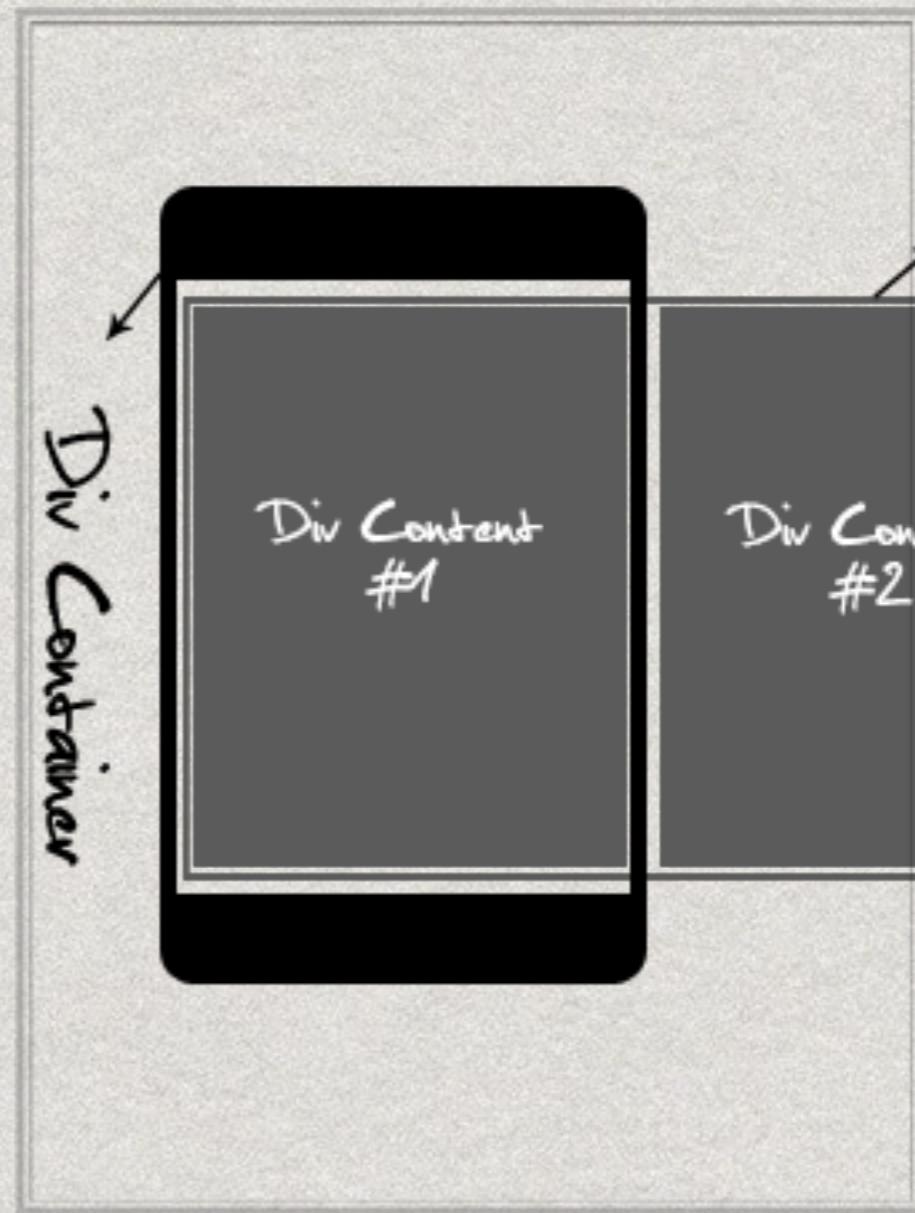


Transition Effects

- * Mobile apps usually have some native animations for changing screens
- * On the web, we can implement these using css transformations

Slide Effect

- * A slide effect is built of two child divs and a parent with overflow:hidden
- * Sliding is achieved by changing the translate-x of the child divs



CSS Transformations

```
-webkit-transform:  
    rotate(25deg)  
    translate(80px, 150px);
```

All Your Base Are Belong To Us

CSS Transformations

- * Available Transformations:
 - * translate
 - * scale
 - * rotate
 - * skew

Keyframe Animations

- * Use keyframe animations when:
 - * Need more control
 - * Repeated Animations

Keyframe Animations

- * Define animation
- * Glue it to an element

Keyframe Animations

- * Define An Animation With:

```
@-webkit-keyframes rounder {  
  0%   { border-radius: 0; }  
  100% { border-radius: 100px; }  
}
```

Keyframe Animations

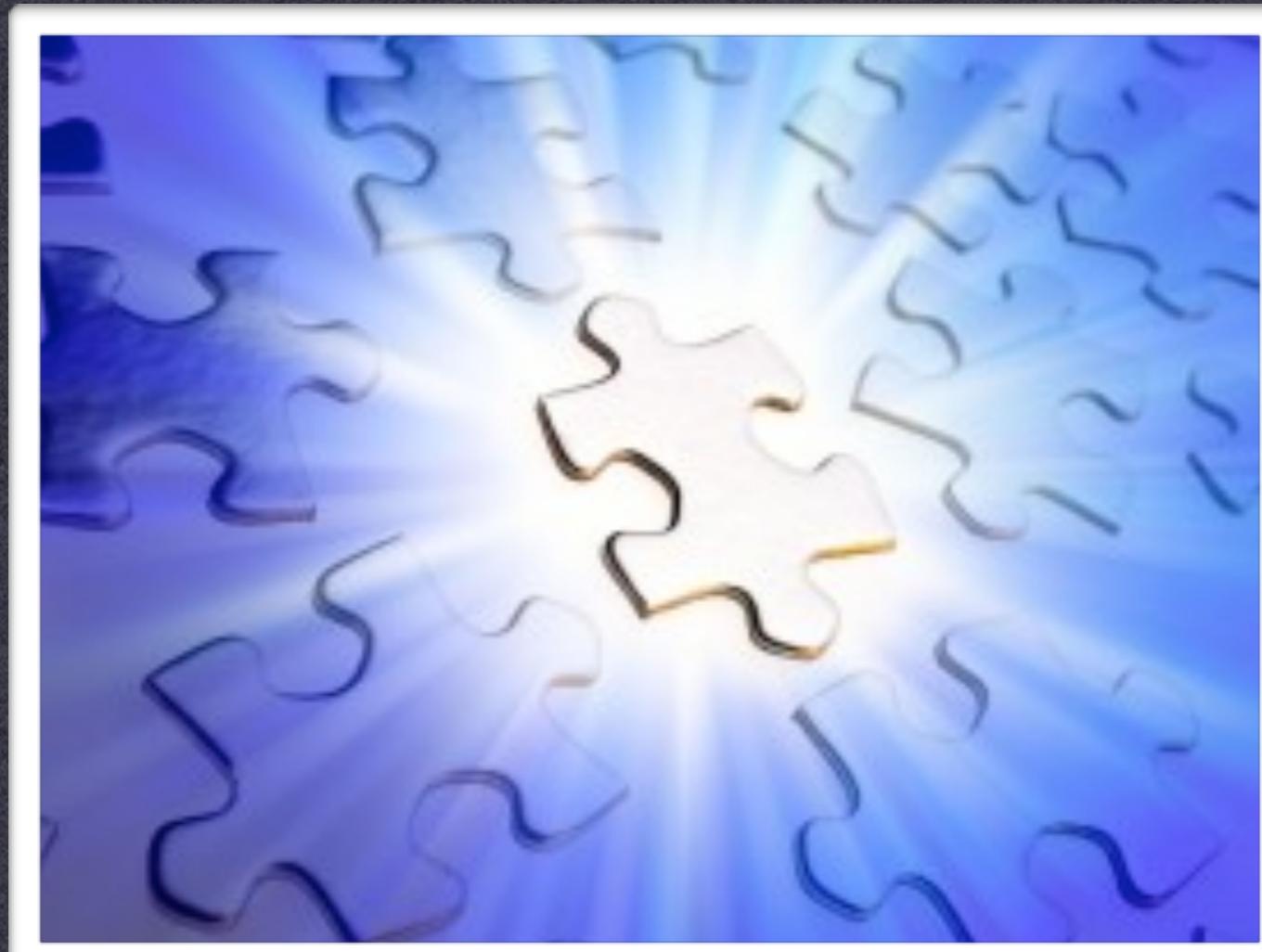
- * Glue it to an element

```
div {  
    width: 200px;  
    height: 200px;  
    background: blue;  
    -webkit-animation: rounder 2s infinite;  
}
```

Keyframes Lab

- * Write a spinner keyframe animation





Q & A

Thank You

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