

CLICKJACKING ATTACK

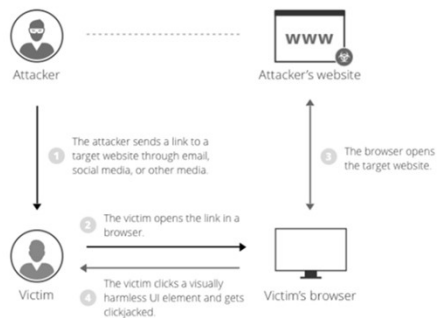
<https://owasp.org/www-community/attacks/Clickjacking>

<https://www.imperva.com/learn/application-security/clickjacking/#>

Clickjacking, also known as a "UI redress attack", is when an attacker uses multiple transparent or opaque layers to trick a user into clicking on a button or link on another page when they were intending to click on the top level page. Thus, the attacker is "hijacking" clicks meant for their page and routing them to another page, most likely owned by another application, domain, or both.

Clickjacking also made the news in the form of a Twitter worm. This clickjacking attack convinced users to click on a button which caused them to re-tweet the location of the malicious page, and propagated massively.

There have also been clickjacking attacks abusing Facebook's "Like" functionality. Attackers can trick logged-in Facebook users to arbitrarily like fan pages, links, groups, etc



```

<html>
<head>
<title>Clickjack test page</title>
</head>
<body>
<p>Website is vulnerable to clickjacking!</p>
<iframe src="http://www.yoursite.com/sensitive-page" width="500" height="500"></iframe>
</body>
</html>
  
```

EXAMPLE

created!
realearning.site

Website realearning.site has been successfully installed on server!
Please delete the file **default.php** from the public_html folder and then upload your website by using FTP or File Manager.

Click me

What's next?

Elite Affiliate Club

Elements Console Sources Network

```

<body>
  <style>
    iframe {
      position: relative;
      width: 500px;
      height: 700px;
      opacity: 0.1;
      z-index: 2;
    }
    div {
      position: absolute;
      top: 470px;
      left: 60px;
      z-index: 1;
    }
  </style>
  <div>Click me</div>
  <iframe src="http://realearning.site"></iframe></body>
  
```

html:html_responsive. body

Styles Computed Layout Event Listeners DOM Breakpoints Properties Accessibility

Filter :hov .cls +

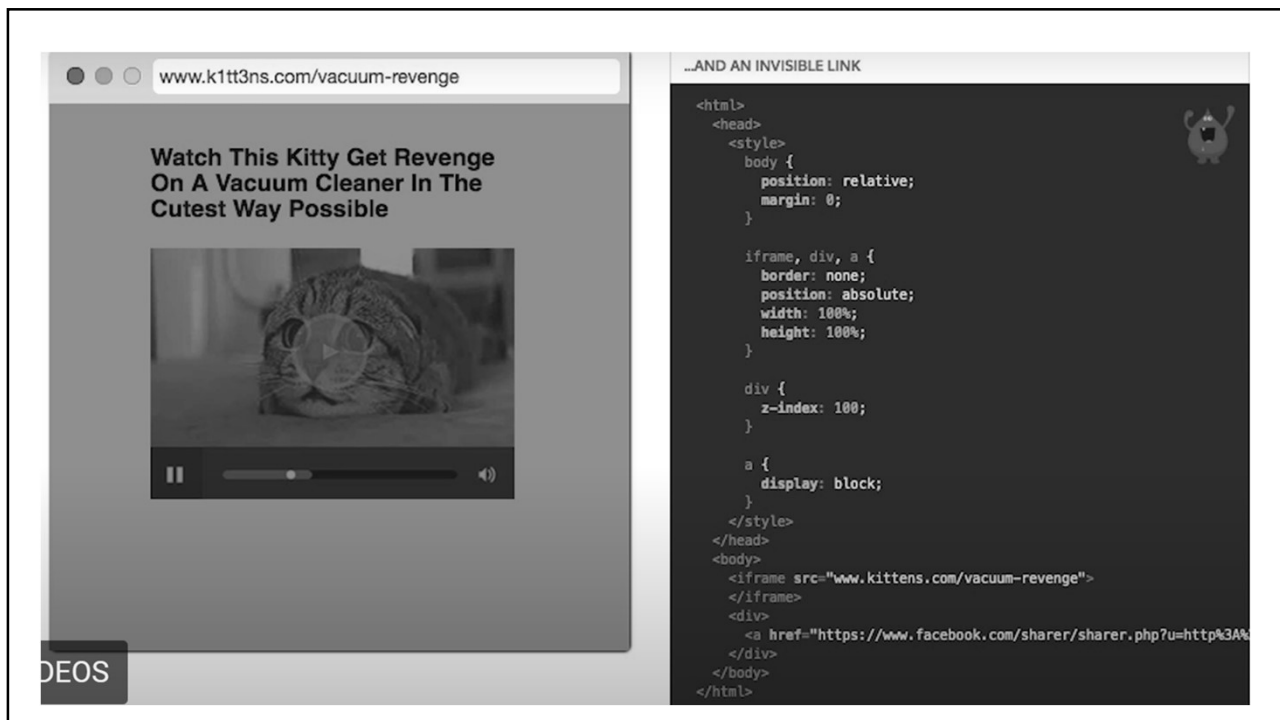
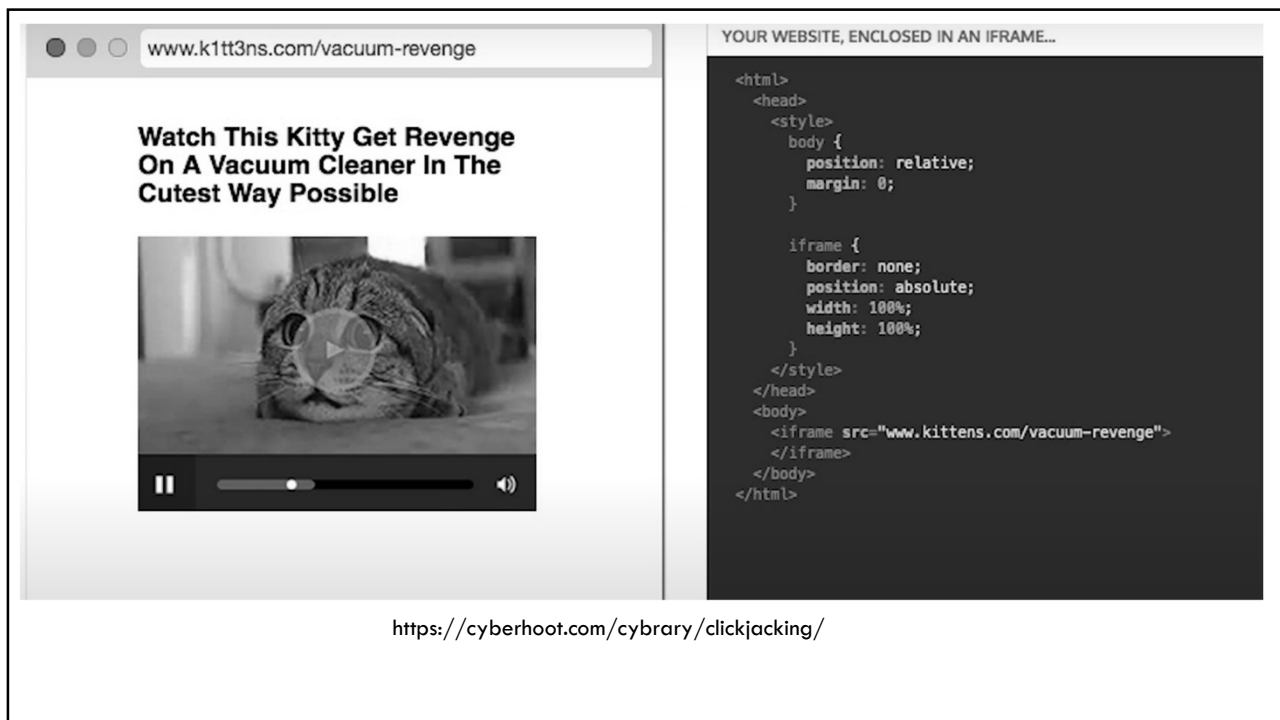
Console

Refused to display 'https://iltjamu.ac.id/' in a frame because it set 'X-Frame-Options' to 'sameorigin'. VM1397:6772

crbug/1173575, non-JS module files deprecated. VM1397:6772

Refused to display 'https://www.iana.org/' in a frame because it set 'X-Frame-Options' to 'deny'. VM1397:6772

crbug/1173575, non-JS module files deprecated. VM1397:6772



<https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options>

X-Frame-Options

The `X-Frame-Options` HTTP response header can be used to indicate whether or not a browser should be allowed to render a page in a `<frame>`, `<iframe>`, `<embed>` or `<object>`. Sites can use this to avoid [click-jacking](#) attacks, by ensuring that their content is not embedded into other sites.

There are two possible directives for `X-Frame-Options`:

```
X-Frame-Options: DENY
X-Frame-Options: SAMEORIGIN
```

If you specify `DENY`, not only will the browser attempt to load the page in a frame fail when loaded from other sites, attempts to do so will fail when loaded from the same site. On the other hand, if you specify `SAMEORIGIN`, you can still use the page in a frame as long as the site including it in a frame is the same as the one serving the page.

X-XSS-Protection

The HTTP `X-XSS-Protection` response header is a feature of Internet Explorer, Chrome and Safari that stops pages from loading when they detect reflected cross-site scripting (XSS) attacks. These protections are largely unnecessary in modern browsers when sites implement a strong `Content-Security-Policy` that disables the use of inline JavaScript (`'unsafe-inline'`).

`X-XSS-Protection: 1`

This is the default setting. It enables XSS filtering on the web browser and blocks out potential XSS payloads from being executed on the page.

`X-XSS-Protection: 1; mode=block;`

This enables XSS filtering in the browser. It avoids potential execution of XSS payloads by blocking the rendering of the page. When the XSS payload is deployed, the visitor gets a blank page on the browser.

In Chromium based browsers, the XSS injection attempt can be reported to the URL specified in the report directive.

```
X-XSS-Protection: 1; mode=block; report=https://domain.tld/folder/file.ext
```

The XSS filter is responsible for the detection of reflected script code. It is triggered if potentially malicious HTML code is found in both the request and response on the HTML page. While some directives will instruct the browser to remove the malicious script in question, others prevent the rendering of the page entirely.

For example:

Request URL:

```
http://www.example.com/?param=<script>alert(1);</script>
```

Response body:

```
<div>
<script>alert(1);</script>
</div>
```