

# tacido notes

private notes by client side encryption

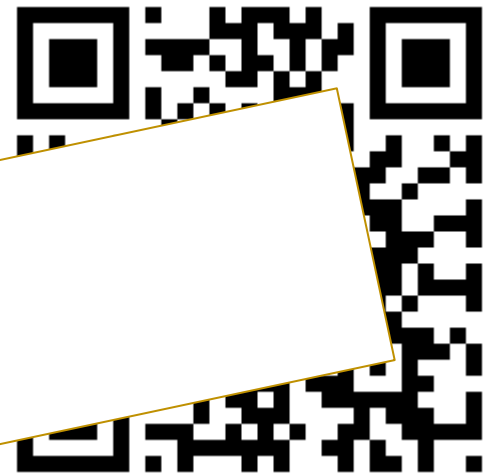
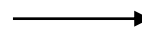
300 lines of javascript for privacy

<http://snuup.github.io/tacidonotes>

<https://github.com/snuup/tacidonotes>

hosted application

source repo



**agnostic!**  
operating system agnostic  
browser agnostic  
new: paranoia agnostic!

Major League Baseball is spying on us!



A close-up portrait of Edward Snowden, a man with short brown hair, glasses, and a light beard, wearing a blue button-down shirt. He is looking slightly to the left of the camera with a neutral expression. The background is blurred, showing light-colored curtains and a dark area.

yes, they spy on you!

# tacido notes

private notes

diligent information handling

for your eyes only - client side encryption

write & read everywhere - browser

zero hosting effort - dropbox

demo tacido



ui



persistence



encryption



a {1 day}

TypeScript  
PREVIEW

lab


ui



```
<div contenteditable="true">
  note text goes here
  <a href="http://www.vienna.js.org">www.vienna.js.org</a>
</div>
```

vs

```
<textarea>
  note text goes here
  http://www.vienna.js.org (sorry no links)
</textarea>
```

- + [links](#),  images, *formatting*
- **html != intention**  
*sanitize.js* to the rescue
- +++ **layout updates!**
  
- + proved itself
- ++ **inhouse** for **adults**
- +++ **learn** about contenteditable

# persistence

<https://github.com/dropbox/dropbox-js> \*661



```
this.dbClient = new Dropbox.Client({  
  key: 'ablaba1abb=|wcYp01a9o2MYg0/9Nu22+kK7H6FyJdHp4kb5p03ReA==',  
  sandbox: true  
});
```

restricts app to "TacidoNotes" folder inside dropbox

create app  
create public key at [https://dl-web.dropbox.com/spa/pjlfdak1tmznswp/api\\_keys.js/public/index.html](https://dl-web.dropbox.com/spa/pjlfdak1tmznswp/api_keys.js/public/index.html)



<https://crypto.stanford.edu/sjcl/>



## Stanford Javascript Crypto Library

The Stanford Javascript Crypto Library (hosted [here](#) on Stanford's server or [here](#) on GitHub) is a project by the Stanford Computer Security Lab to build a secure, powerful, fast, small, easy-to-use, cross-browser library for cryptography in Javascript.

SJCL is easy to use: simply run

```
sjcl.encrypt("password", "data")
```

to encrypt data, or

```
sjcl.decrypt("password", "encrypted-data")
```

to decrypt it. For users with more complex security requirements, there is a much more powerful API, described in the [documentation](#) and illustrated in this [demo page](#).

SJCL is small but powerful. The [minified version](#) of the library is under 6.4KB compressed, and yet it posts impressive speed results.

show code



# tacido notes++

## code metrics

300 loc javascript

45 loc html

100 loc css

## possible improvements

responsive design for mobile

html5 app

data handling / local storage for notes + background sync

bundling > tree shaking > minification

visuals

editor - aloha / markdown / ...

error handling / console.log

fulltext indexing

# take aways ...

cloud services often **collide with privacy**

**client side encryption** brings privacy back

**sjcl + js libs** makes it easy to bring it back

Major League Baseball is spying on us!

