CS50 FOR MBAs

## ADVERTISING & ABSTRACTION

#### ONLINE ADVERTISING

### TYPES

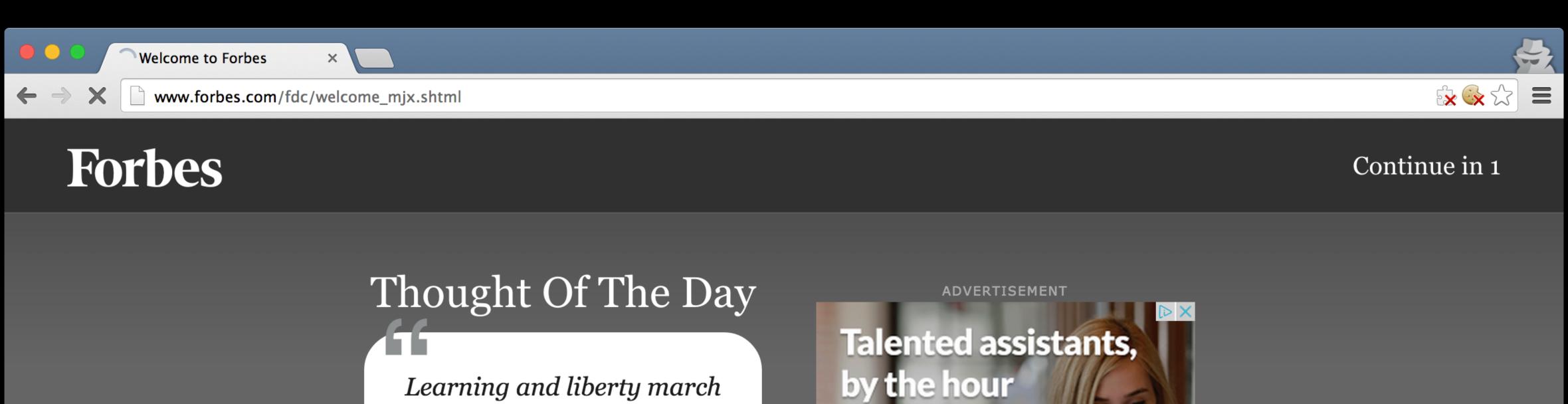


#### ONLINE ADVERTISING

### TYPES



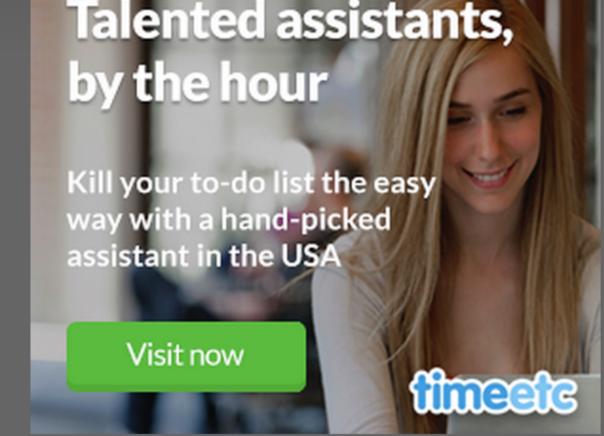
## INTERSTITIAL



hand in hand, or they do not march at all: the one is the condition of the other.

SHARE \* (f) (in) (8)

\* Hartley Shawcross



### ADSENSE

#### GOOGLE'S ONLINE ADVERTISING PLATFORM

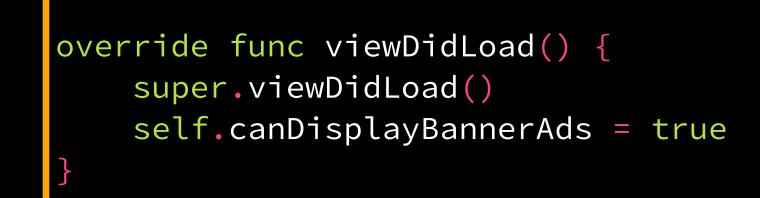
```
<script async src="http://pagead2.googlesyndication.com/pagead/js/adsbygoogle.js"></script>
<ins class="adsbygoogle"
    style="display:inline-block;width:300px;height:250px"
    data-ad-client="ca-pub-xxxxxxxxxxxxxxx"
    data-ad-slot="6440411535"></ins>
<script>
  (adsbygoogle = window.adsbygoogle || []).push({});
  </script>
```



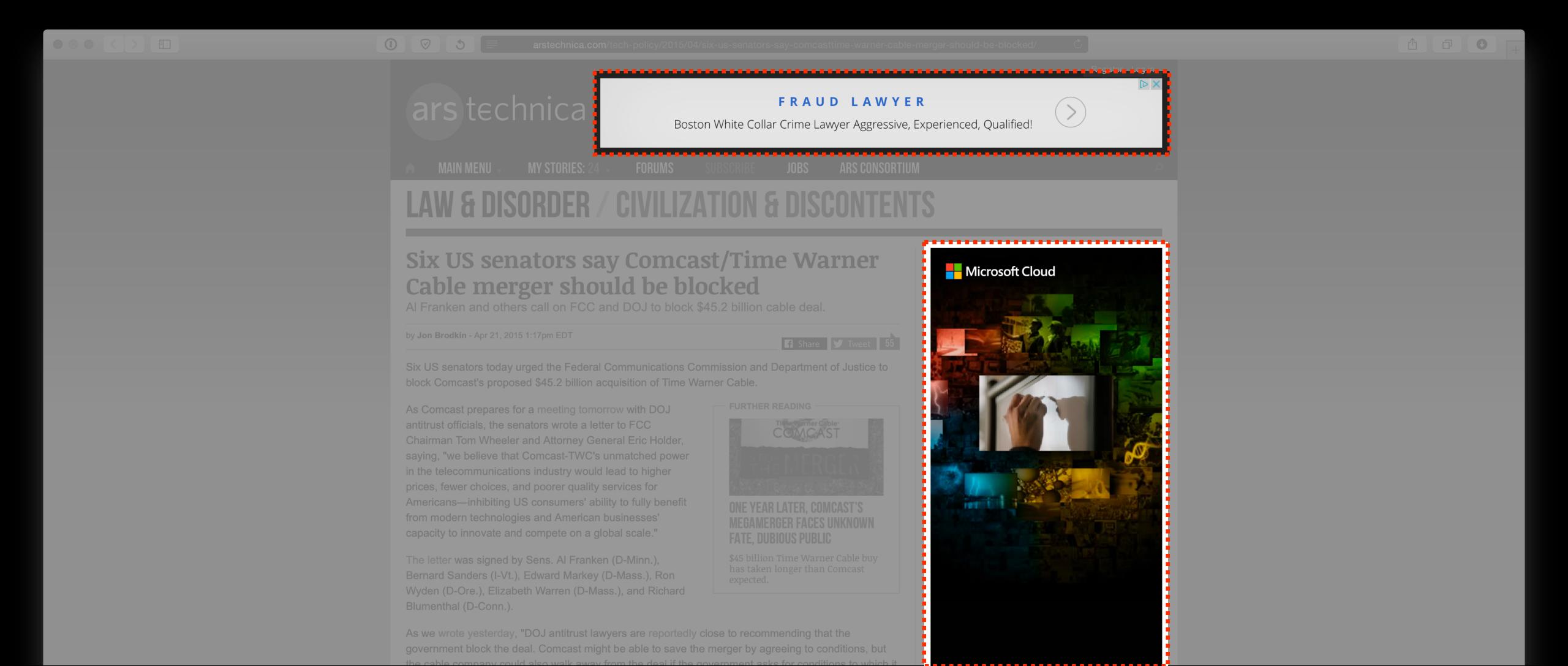
### iAD

#### APPLE'S ADVERTISING PLATFORM FOR IOS APPLICATIONS

```
9:41 AM
                                iOS App
                      The App Store has the best selection of mobile
                      apps - from Apple and third-party developers.
                              Tap banner to expand ✓
THE BMW 4 SERIES.
 Build yours
```



## TECHNOLOGY



### TARGETING

ONE TECHNOLOGY: CREATING A "PIXEL"

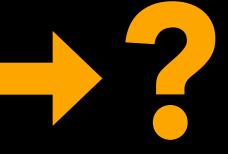
<img src="/yay.gif" width=0 height=0 alt="" />



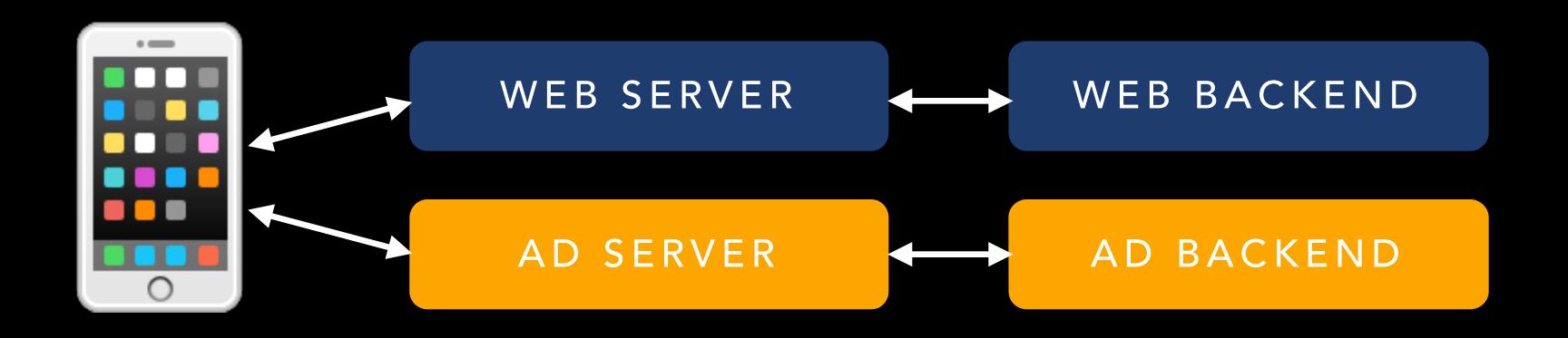
### TARGETING

ONE TECHNOLOGY: CREATING A "PIXEL"

<img src="/script.py" width=0 height=0 alt="" />



### ONLINE ADVERTISING PLATFORMS



### AD BLOCKERS?



## FINGERPRINTING

https://panopticlick.eff.org

Separate the implementation of a system from its usage through the use of an **interface** 

ABSTRACTION

# The interface provides a **barrier** that users should not break.

Why not?

ABSTRACTION BARRIER

Deciding on the abstraction level can be key; sometimes an abstraction gets in the way.

If it does, we might say something is over-engineered.

"Should we run our product in the cloud?"

EXAMPLE ABSTRACTION DECISION

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