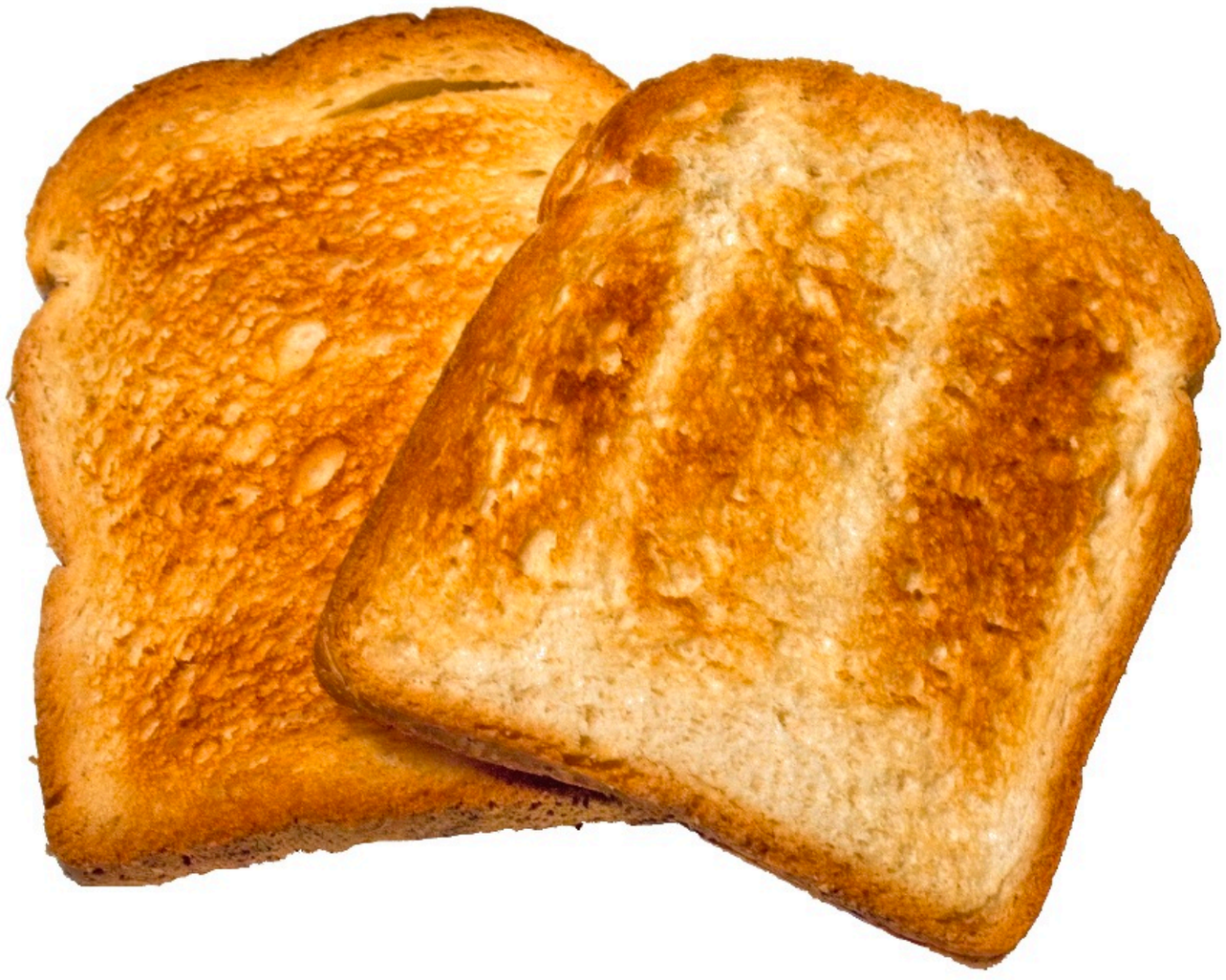
FDC3 and the legacy of Web Intents

Peanut
Butter

2 PEANUT BUTTER CUPS
Reese's
MILK CHOCOLATE
Reese's
NET WT
1.5 OZ (42 g)
2 PEANUT BUTTER CUPS



MARMITE
YEAST EXTRACT
MARMITE
RICH IN B VITAMINS • 100% VEGETARIAN

MARMITE
YEAST EXTRACT
MARMITE
CONTAINS B VITAMINS
VEGETARIAN

End user as interop layer is terrible UX

TL;DR

A Brief History of Web Intents

History [edit]

Paul Kinlan of Google announced the Web Intents project in December 2010. He soon released a prototype API to GitHub. In August 2011 Google announced that Chrome would support Web Intents. Google and Mozilla have started co-operating to unify Web Intents and Mozilla's Web Activities (which tries to solve the same problem) into one proposal.[8][9][10]

In November 2012, Greg Billock of Google announced that experimental support of Web Intents had been removed from Chrome.[4]

https://en.wikipedia.org/wiki/Web_Intents

Web Activities

Languages | Edit | ⚙

Jump to: Activities | Registering an App as an activity handler | Handle an activity | Starting an activity | Specification | See also

Archive of obsolete content › B2G OS › B2G OS APIs › Web Activities

Related Topics

Web Activities

- Interfaces
  - `MozActivity`
  - `MozActivityRequestHandler`
  - `MozActivityOptions`
- Methods

Non-standard
This feature is not on a current W3C standards track, but it is supported on the Firefox OS platform. Although implementations may change in the future and it is not supported widely across browsers, it is suitable for use in code dedicated to Firefox OS apps.

This API is available to installed code running on Firefox for Android, and is intended for use by Firefox for Android Webapps in Firefox for Android 32+.

Web activities define a way for applications to delegate an activity to another (usually user-chosen) application.

Web activities are currently enabled on Firefox OS only, and the full specification is available on WikiMo.

https://developer.mozilla.org/en-US/docs/Archive/B2G_OS/API/Web_Activities

May 2010

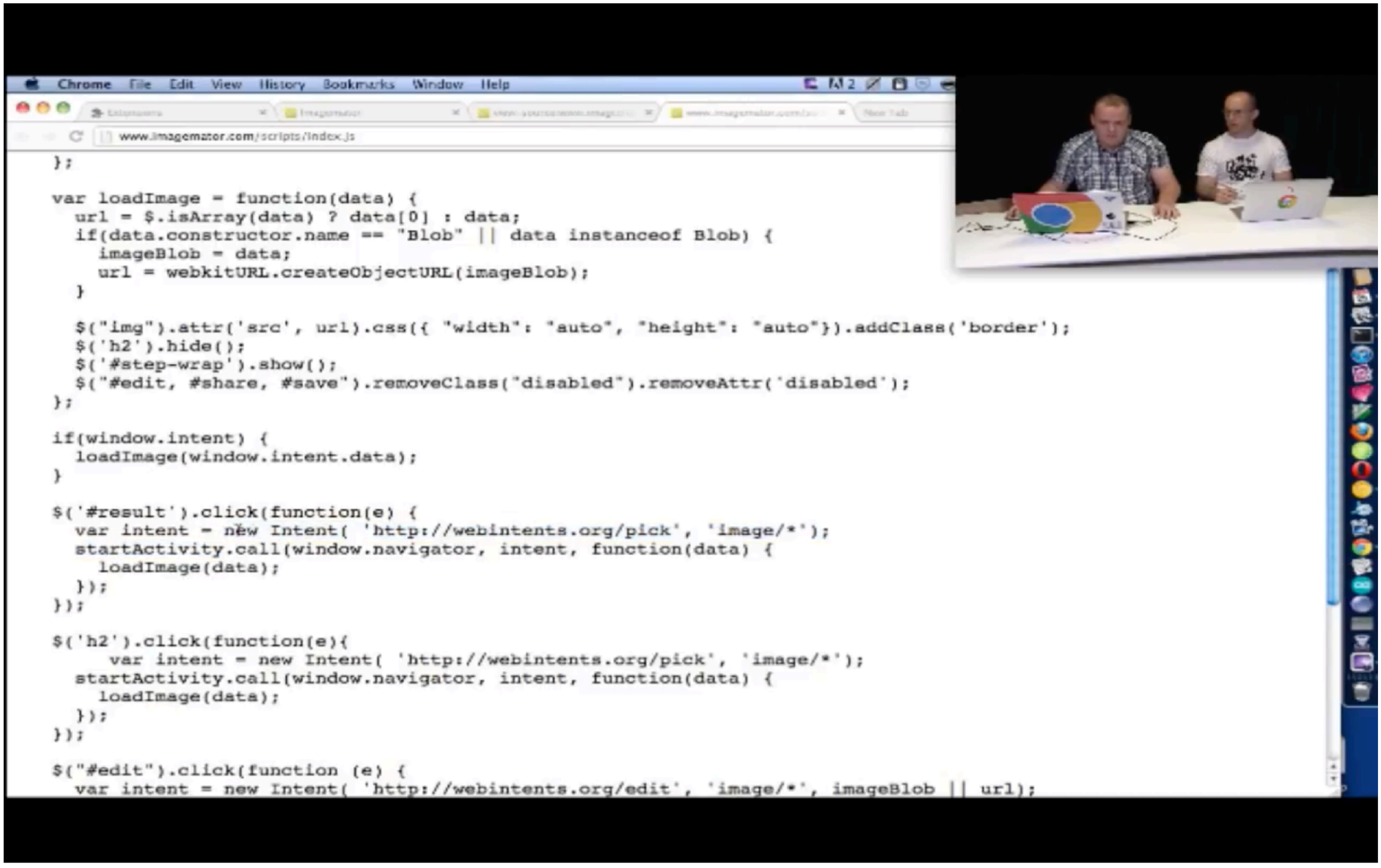
- 54% have used their mobile device to send someone a photo or video
- 23% have accessed a social networking site using their phone
- 20% have used their phone to watch a video
- 15% have posted a photo or video online
- 11% have purchased a product using their phone
- 11% have made a charitable donation by text message

http://www.pewinternet.org/2010/07/07/mobile-access-2010/

- 10% have used their mobile phone to access a status update service such as Twitter

The share of Americans that own smartphones is now 77%, up from just 35% in Pew Research Center's first survey of smartphone ownership conducted in 2011.

http://www.pewinternet.org/fact-sheet/mobile/



Paul Kinlan & Paul Lewis - September 25th, 2012

https://www.youtube.com/watch?v=8b0LCBx8Rys

Web Wishes

Unofficial Draft 23 May 2014

Latest editor's draft:

http://darobin.github.com/web-wish/

Bug tracker:

File a bug (open bugs)

Editor:

Robin Berjon (W3C)

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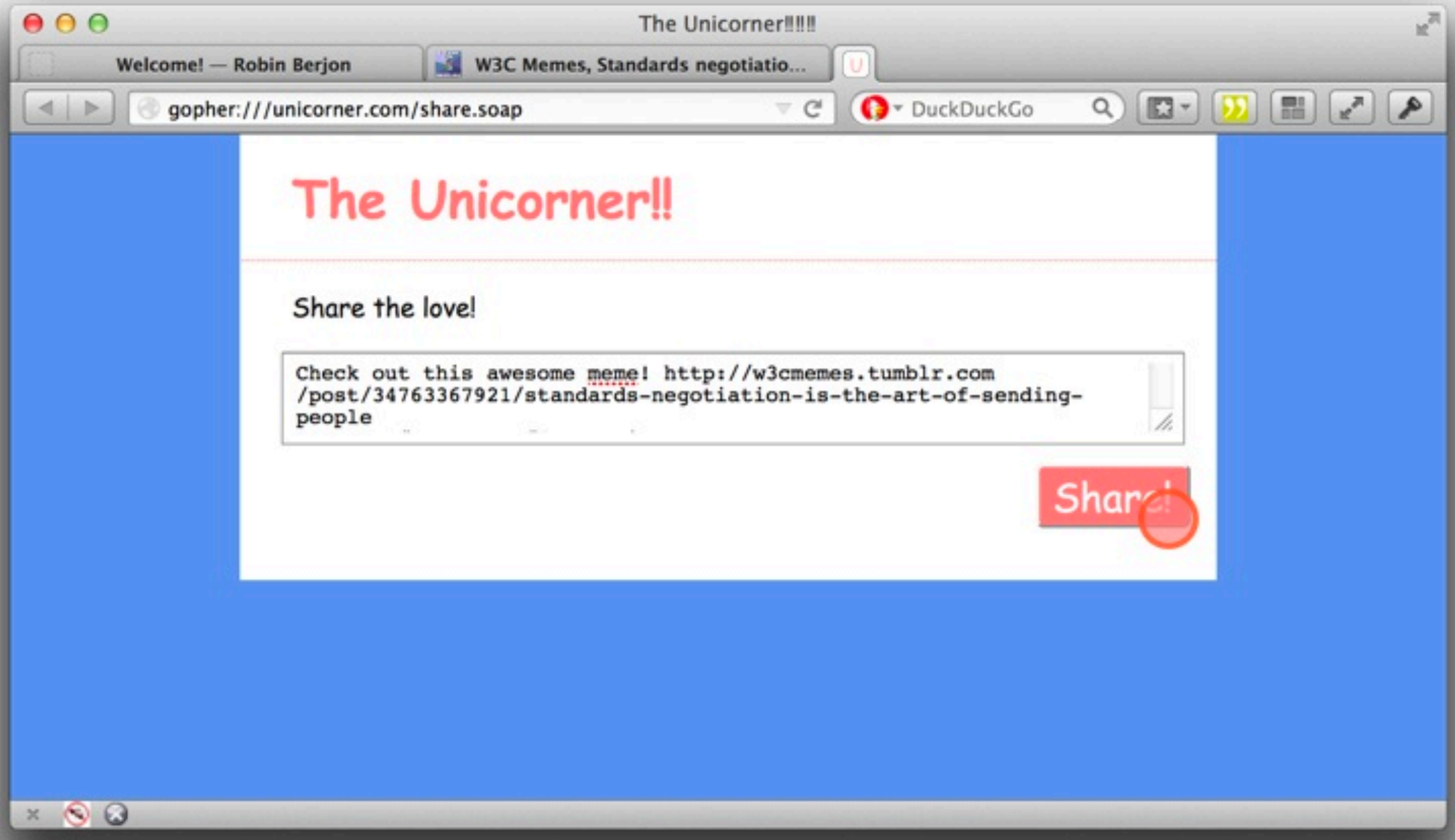
EXAMPLE 1

```
<button id='share'>😻 Share this!</button>
<!-- … -->
<script>
  document.querySelector("#share").onclick = function () {
      new Wish("share", "text/plain", location.href).make();
  };
</script>
```

http://darobin.github.io/web-wish/



http://darobin.github.io/web-wish/

Paul Kinlan ✓
@Paul_Kinlan

Follow

Got 'Web Intents' working again, by using Comlink[1] over Comlink.

[1]: github.com/Go

```
let registry = new ServiceRegistry();
let resolvedService = await registry.pi
remote = await new resolvedService.Test
remote.outputToPre('calling from windo
```

3:51 PM - 24 Sep 2017

2 Retweets **17** Likes

2 2 17

Paul Kinlan ✓ @Paul_Kinlan · 24 Sep 2017
ServiceRegistry is a simple shim to the ServiceRegistry hosted on another domain.

1 1

Paul Kinlan ✓ @Paul_Kinlan · 24 Sep 2017
pick will open the picker, that allows the user to choose the service of their choice.

1 1

Paul Kinlan ✓ @Paul_Kinlan · 24 Sep 2017
and then that service exposes an API back to the original window.

1

Friedger Müffke @fmdroid · 24 Sep 2017
Replying to @Paul_Kinlan
Nice! Are the UX problems solved by now?

1

Paul Kinlan ✓ @Paul_Kinlan · 24 Sep 2017
nope. I am just working a service discovery and message passing using raw platform and exposing a custom API over that channel

PISTR SIVE
PHISET
NORVEGI
K
NS
HOSTR MDXXXVII VISVM
F
TILE

Why did Web Intents fail?

Scope

We were overly broad in terms of intents: We started with a lot of custom ones that we thought were cool, and I tried to encourage developers to think of new ones. The lesson I learnt from this is that we should have started with a very small pool with no ability for developers to deviate and lead them through to solving very specific use-cases with the API. In the project we were far far to late in trying to constrain the platform and guide developers in a very opinionated way.

https://paul.kinlan.me/what-happened-to-web-intents/

Politics

In retrospect, I also think we were overly stubborn in our interactions with Mozilla and other browsers, right up until we decided that they had some good points by which time it was too late. We were also working with a some of the wrong people in Mozilla to start with which delayed things in my opinion, but that is not that important now.

Suggestions came in from good people at Mozilla, and for me, my stubbornness blinded us. Ultimately this meant that Mozilla in Firefox OS went and implemented Web Activities that solved a lot of the problems that we thought weren't problems.

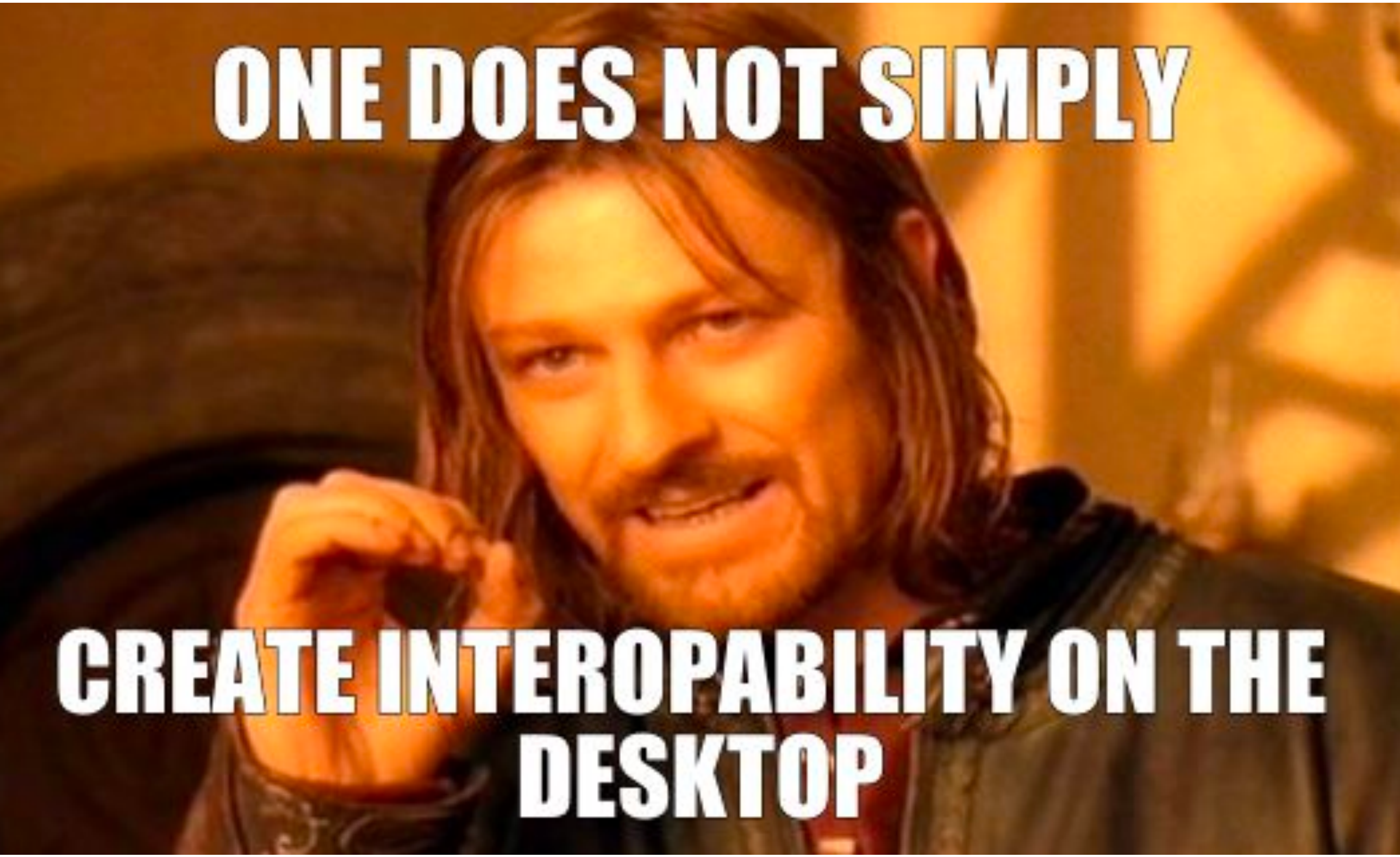
This is my biggest regret.

https://paul.kinlan.me/what-happened-to-web-intents/

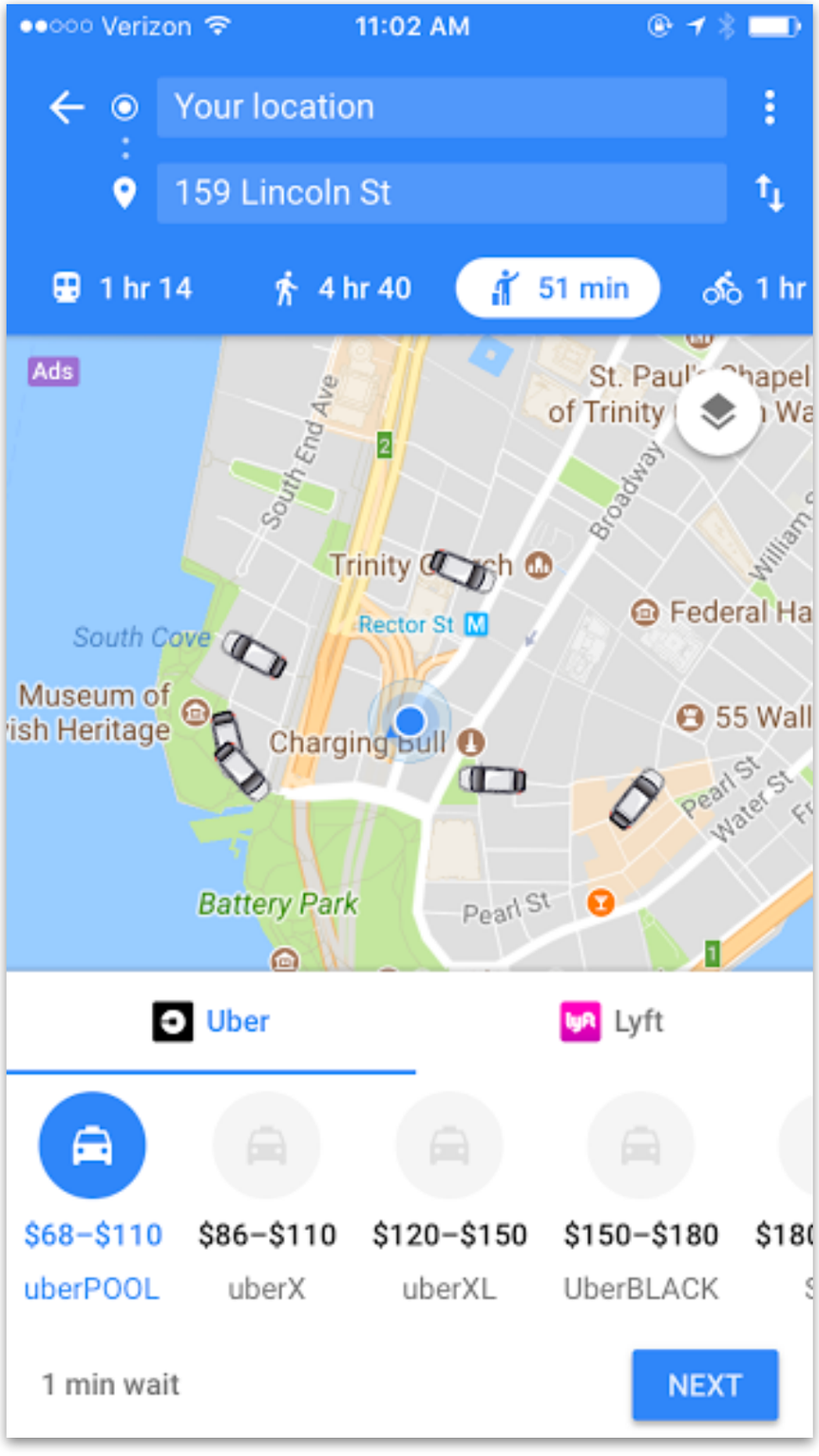
UX

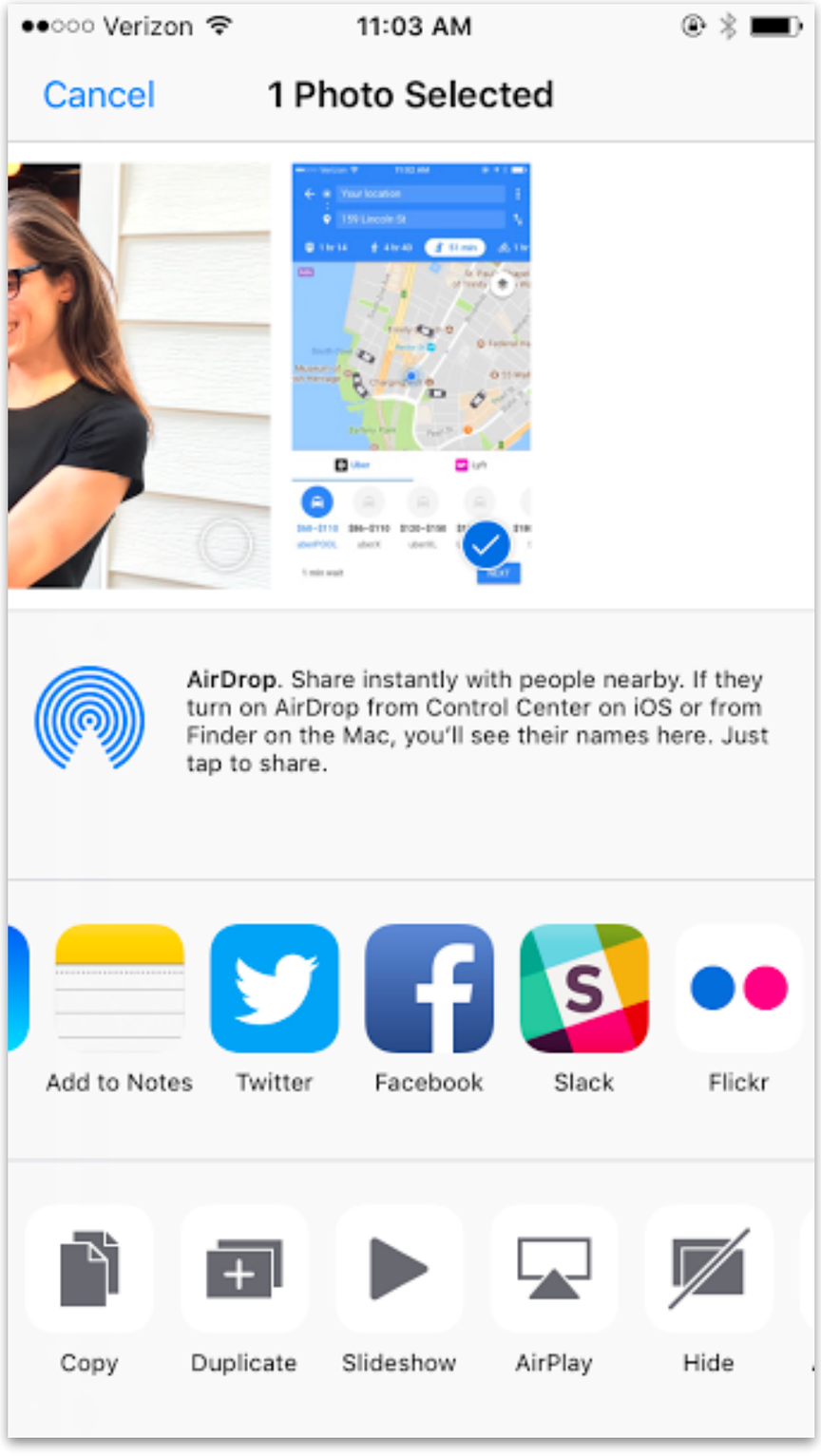
One example: Android has a modal full screen (in most cases) stacking app context. Desktop web doesn't. We had a huge issue with "what happens when you kill off the app that initiated the action" and given that we were pushing people to use "EDIT" intents where all the work is done in the app that fulfills the intent yet have the initiator save the data, if that closed the user was hosed. We stuck with this model, I ignored feedback and ultimately a lot of the feedback we got when the project was killed was "The UX was terrible" and it was the insistence on designing an API that has async task but wasn't async on the platform we cloned the idea from.

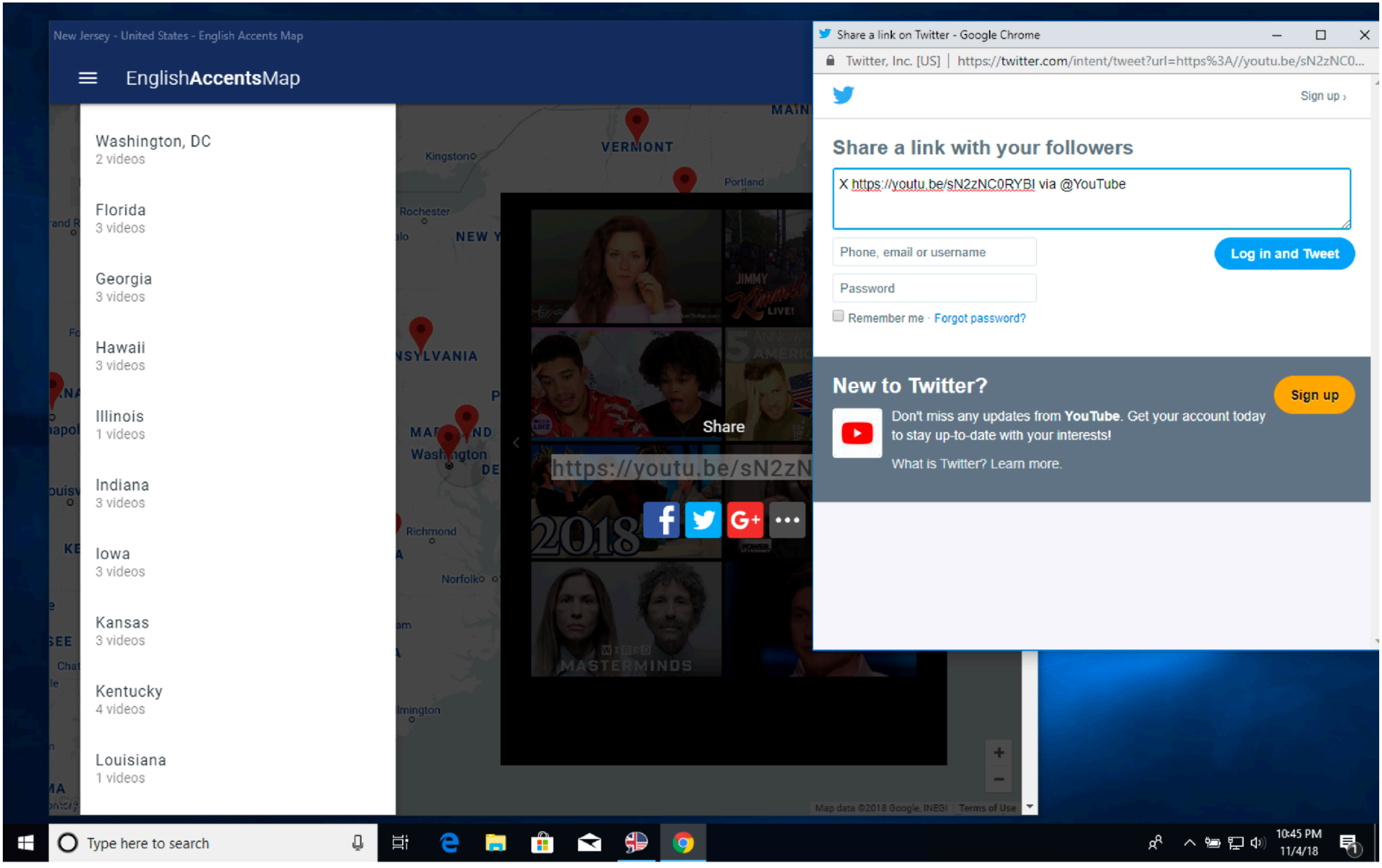
https://paul.kinlan.me/what-happened-to-web-intents/


ONE DOES NOT SIMPLY
CREATE INTEROPABILITY ON THE DESKTOP

FDC^3

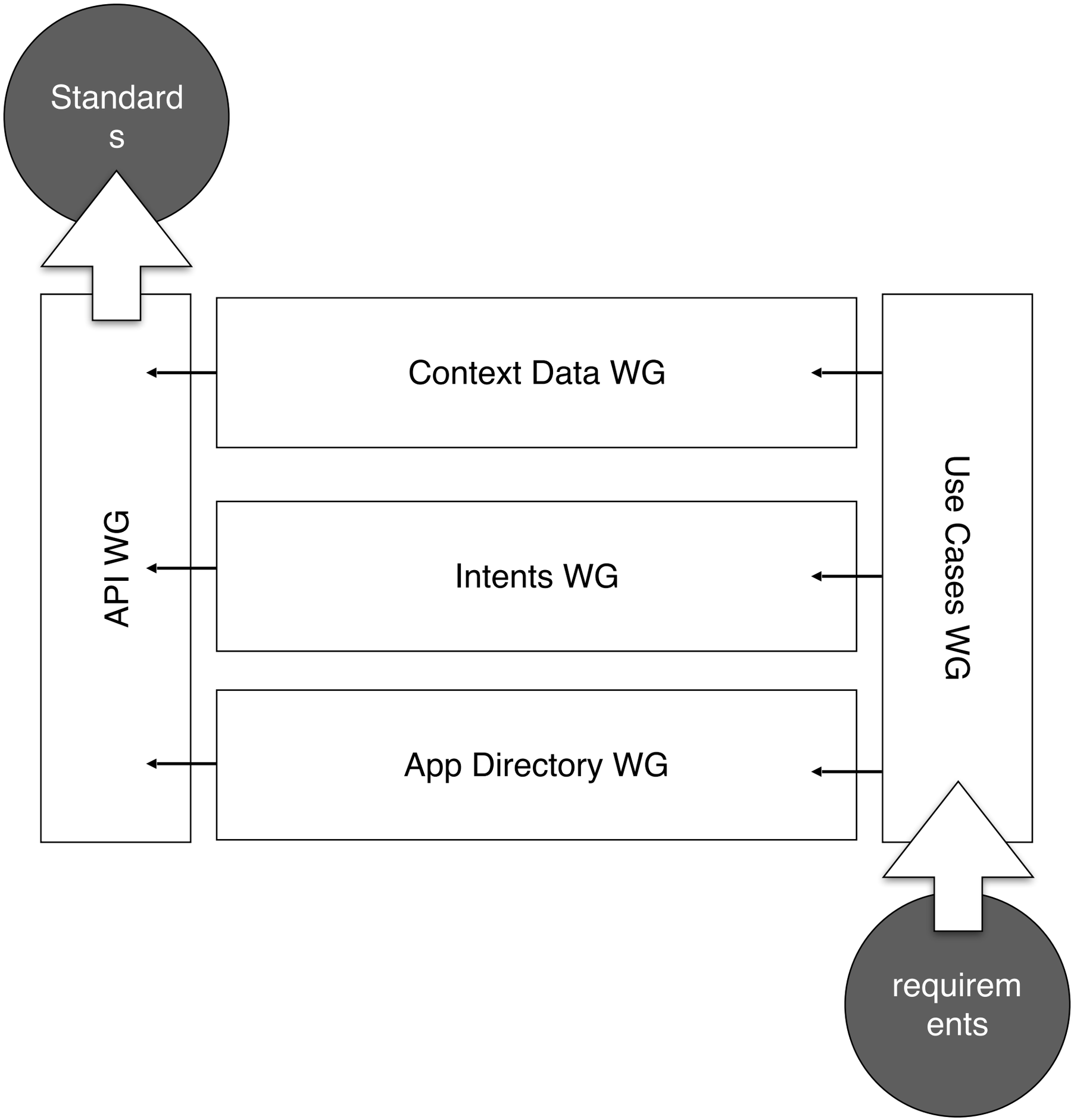

Verizon
11:02 AM
Your location
159 Lincoln St
1 hr 14
4 hr 40
51 min
1 hr
Ads
South End Ave
Broadway
Trinity Church
Rector St
Federal Ha
South Cove
Museum of
Charging Bull
55 Wall
Pearl St
Water St
Battery Park
Pearl St
Uber
Lyft
$68–$110
uberPOOL
$86–$110
uberX
$120–$150
uberXL
$150–$180
UberBLACK
1 min wait
NEXT


Verizon
11:03 AM
Cancel
1 Photo Selected
AirDrop. Share instantly with people nearby. If they turn on AirDrop from Control Center on iOS or from Finder on the Mac, you'll see their names here. Just tap to share.
Add to Notes
Twitter
Facebook
Slack
Flickr
Copy
Duplicate
Slideshow
AirPlay
Hide


New Jersey - United States - English Accents Map
EnglishAccentsMap
Washington, DC
2 videos
Florida
3 videos
Georgia
3 videos
Hawaii
3 videos
Illinois
1 videos
Indiana
3 videos
Iowa
3 videos
Kansas
3 videos
Kentucky
4 videos
Louisiana
1 videos
VERMONT
Kingston
Portland
Rochester
Richmond
Norfolk
Washington
Share
https://youtu.be/sN2zN
2018
MASTERMINDS
Map data ©2018 Google, INEGI
Terms of Use
Share a link on Twitter - Google Chrome
Twitter, Inc. [US] | https://twitter.com/intent/tweet?url=https%3A//youtu.be/sN2zNC0...
Sign up ›
Share a link with your followers
X https://youtu.be/sN2zNC0RYBI via @YouTube
Phone, email or username
Password
Log in and Tweet
Remember me · Forgot password?
New to Twitter?
Sign up
Don't miss any updates from YouTube. Get your account today to stay up-to-date with your interests!
What is Twitter? Learn more.
Type here to search
10:45 PM
11/4/18

FDC3

- founded by OpenFin - October, 2017
- Standards Process is public with all deliverables open source Apache 2.0 licensed
- 50+ financial organizations participating
- First Draft of Standards Ratified!


Standard
s
Context Data WG
Use Cases WG
APIs WG
Intents WG
App Directory WG
requirem
ents

Why things are different this time…

Timing

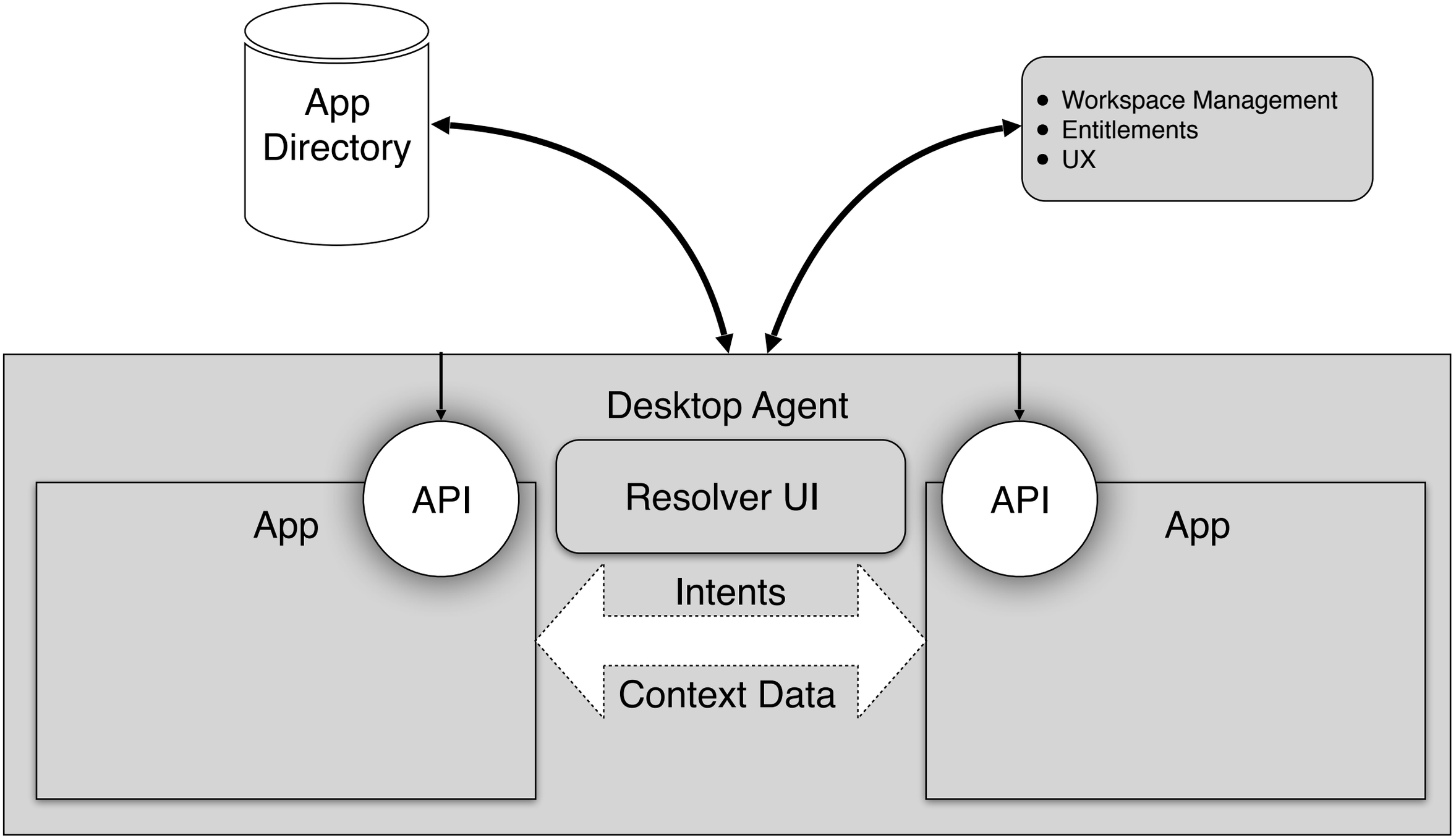
- Underlying technology is mature
- Strong demand in a specific industry
- Neutral brokers exist

Focus

- Industry specificity
- Use Cases driving technology
- Ecosystem of stakeholders

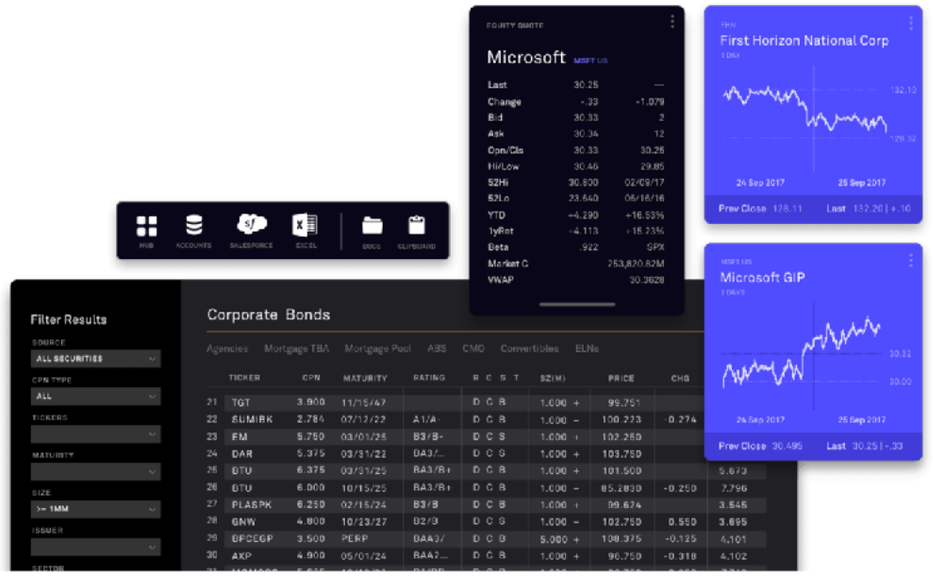
Technology

- Apps solve trust problems of the open web
- UX solutions not available to browser
- Federated directories replace overly broad discovery


App Directory
Workspace Management
Entitlements
UX
Desktop Agent
App
API
Resolver UI
API
App
Intents
Context Data

Monolith

Unbundled Apps



openfin

HTML

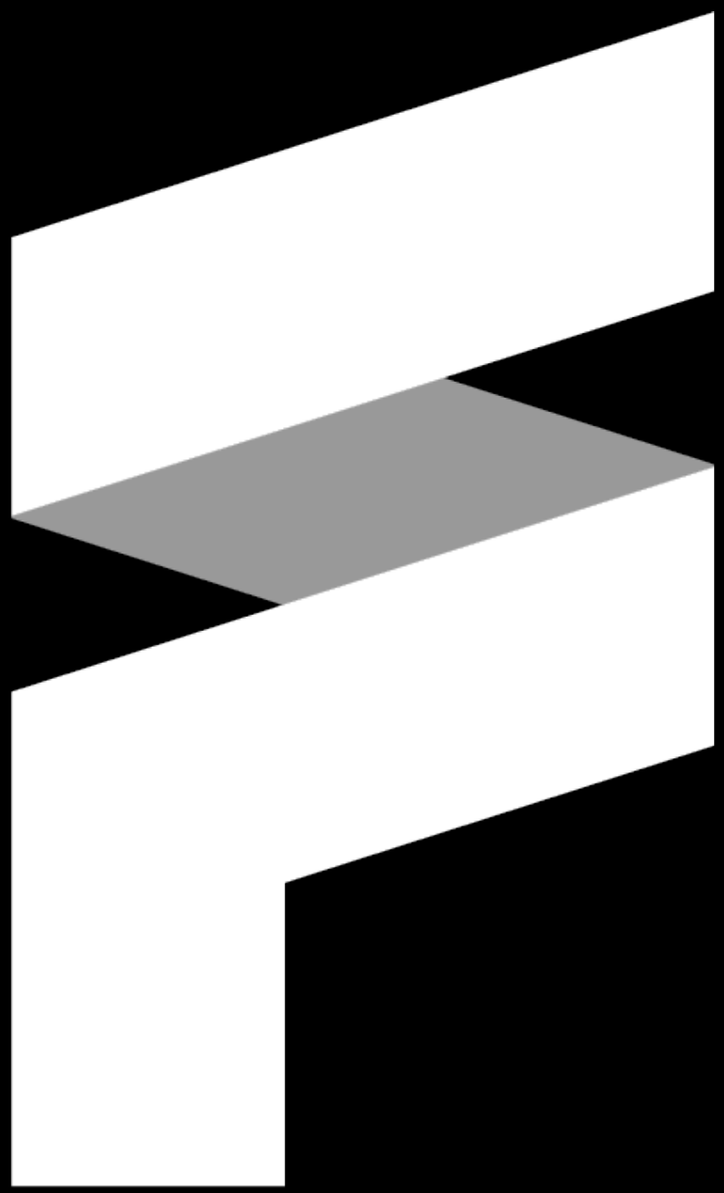
PWA

1000 **Apps**

1500 **Banks and Buy-Side**

60 **Countries**

200K **Desktops**



FINOS

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FDC^3

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FINOS

MILK CHOCOLATE
Reese's
NET WT
1.5 OZ (42 g)
2 PEANUT BUTTER CUPS

thank you