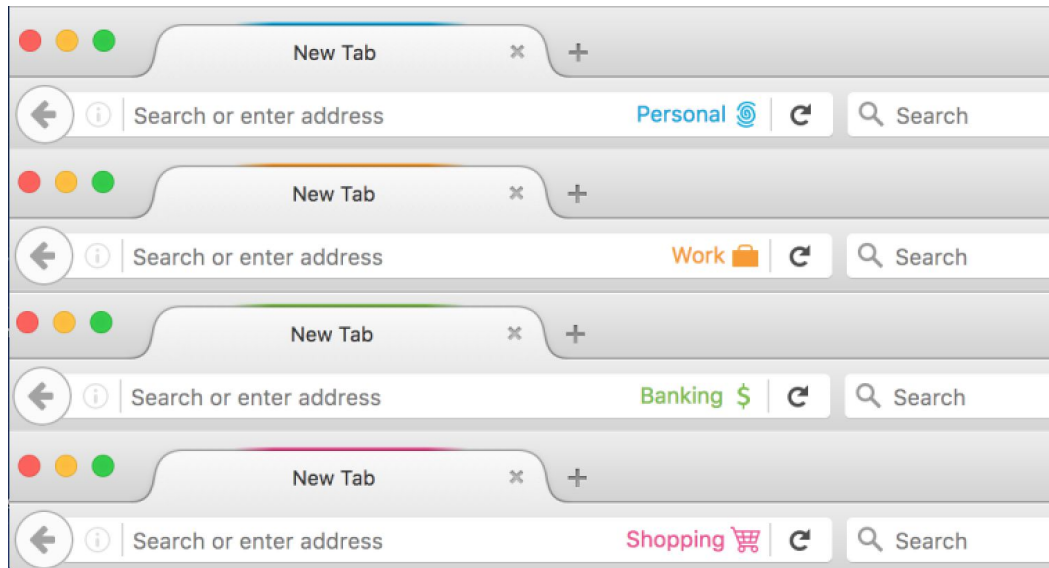


Containers

An experimental feature in Firefox Nightly

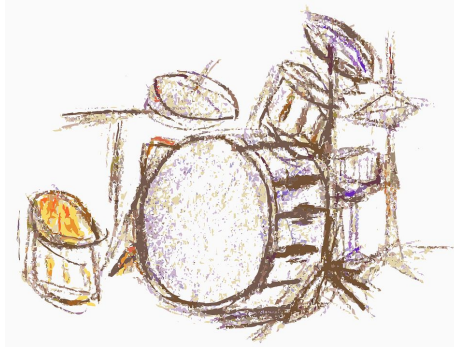
Stéphanie Ouillon

Platform Security Engineer @Mozilla



Contextual Identity

Be who you want, when you want



Different contextual identities on the web

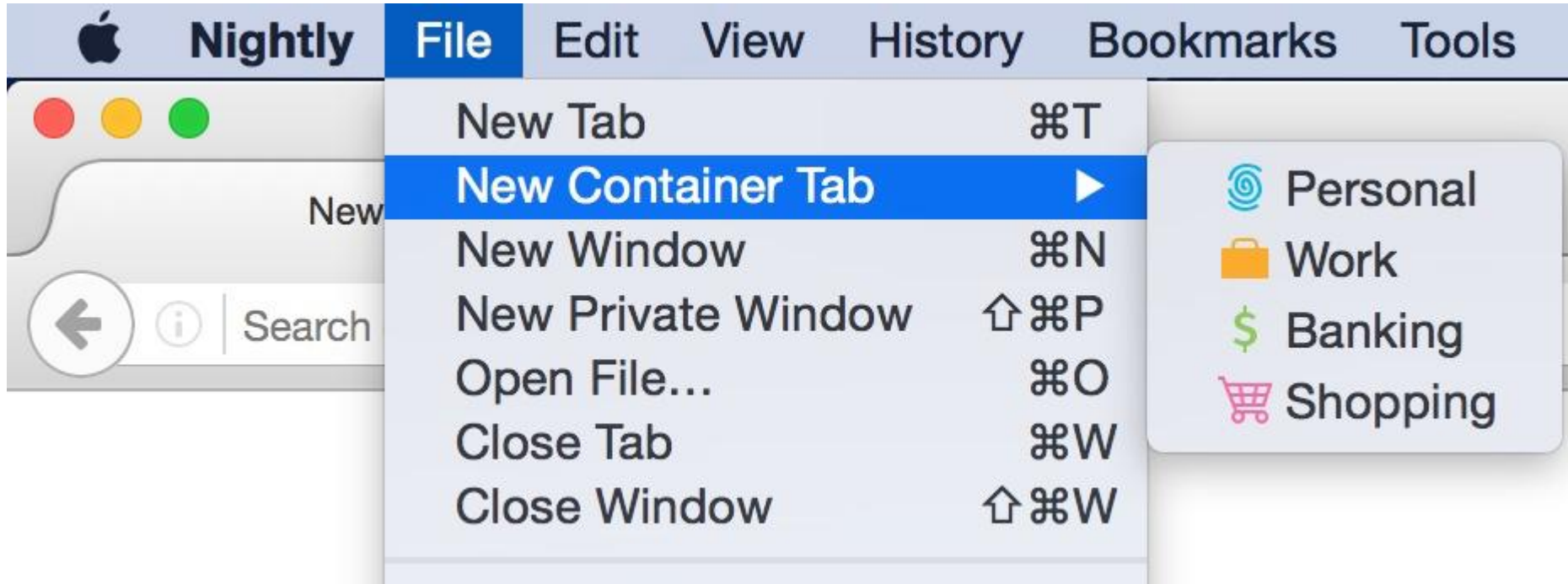
- I have two gmail/twitter/yahoo/... accounts
- I want relevant ads while I shop, but not while I work
- It makes me uncomfortable to bank on the same browser I sometimes use for shady sites

Current Solutions



Private Browsing

Containers Solution





TWEETS **91** FOLLOWING **41** FOLLOWERS **261** LIKES **6**

Tanvi
@TanviHacks
Security Engineer at Mozilla
Joined April 2012

Tweets Tweets & replies

 **Tanvi** @TanviHacks · 17m
Check out this experimental Contextual Identity feature released on Firefox Nightly: [blog.mozilla.org/tanvi/2016/06/...](http://blog.mozilla.org/tanvi/2016/06/)

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FOLLOWING 10 FOLLOWERS 1

Tanvi
@TanviFox
Joined June 2016

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What browser data is segregated by containers?

Separated

- Cookies
- localStorage
- indexedDB
- Cache

Shared

- History
- Bookmarks
- Saved Passwords
- Saved Search and Form data
- HSTS Flags
- OCSP Responses
- Security Exceptions for Invalid TLS Certificates
- Permissions

Origin Attributes in Gecko

- Before: (scheme, host, port)
- Today: (scheme, host, port, originAttributes)
- **Added useContextId OriginAttribute**
- Same Origin Policy Enforcements:

(https, example.com, 443, useContextId=1) != (https, example.com, 443, useContextId=2)

How does it improve privacy and security?

1. Segregating tracking cookies

/!\ fingerprinting, keep using Tor to minimize your fingerprint as much as possible

2. Compartmentalizing sensitive information

Experimental feature

Enabled in Firefox **Nightly 50**

/!\ Bugs related to **containers separation** still being
fixed

Feedback

Feedback: [Form](#)

Email: containers@mozilla.com

File a bug: bugzilla.mozilla.org

More info: <https://blog.mozilla.org/tanvi/2016/06/16/contextual-identities-on-the-web/>

https://wiki.mozilla.org/Security/Contextual_Identity_Project/Containers