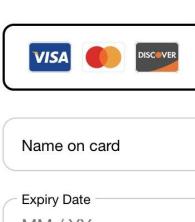
Autofill + iframes

smcgruer@google.com & schwering@google.com
2023/08/03









1234 1234 1234 1234

MM / YY

CVV

(i)

✓ Billing address same as delivery

Mr Test Address

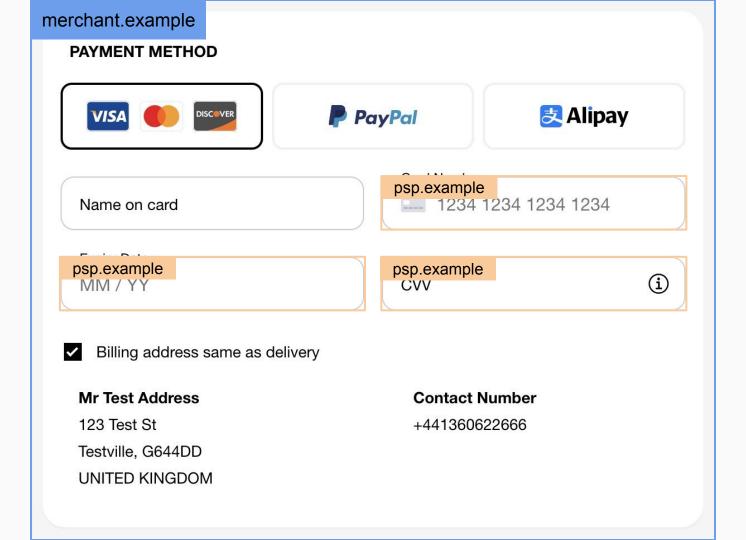
123 Test St

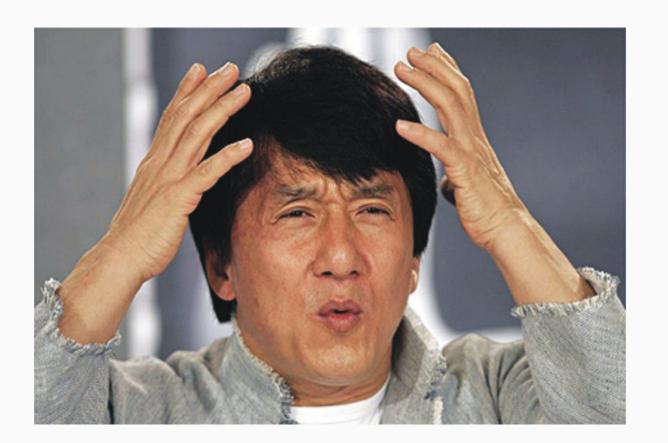
Testville, G644DD

UNITED KINGDOM

Contact Number

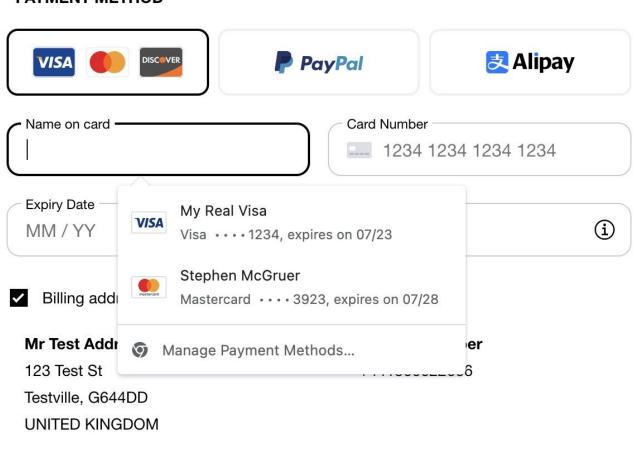
+441360622666

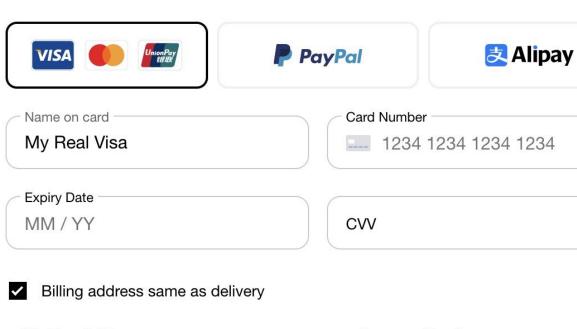




PCI DSS

Ok, but what's the problem?





Mr Test Address

123 Test St

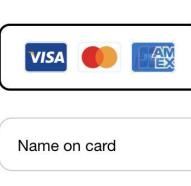
Testville, G644DD

UNITED KINGDOM

Contact Number

(i)

+441360622666







VISA 4000 1234 1234 1234

Expiry Date

MM / YY

CVV

Card Number

(i)

Billing address same as delivery

Mr Test Address

123 Test St

Testville, G644DD

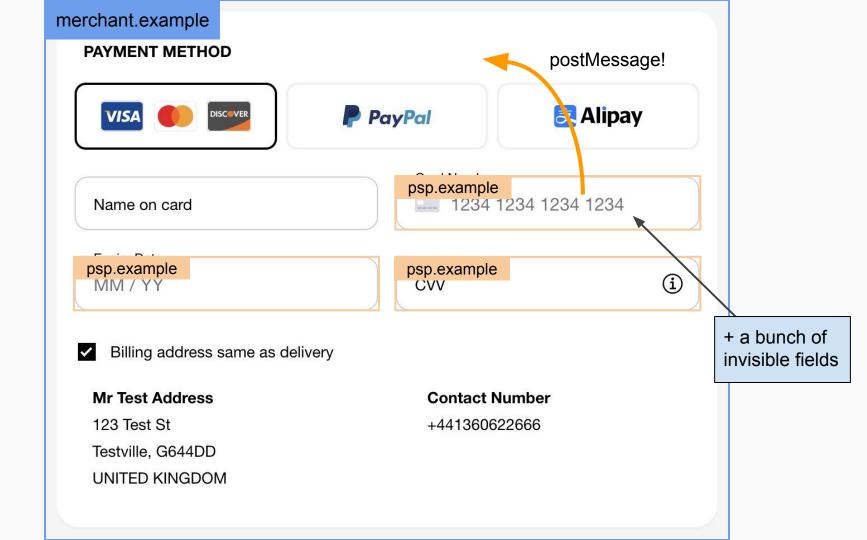
UNITED KINGDOM

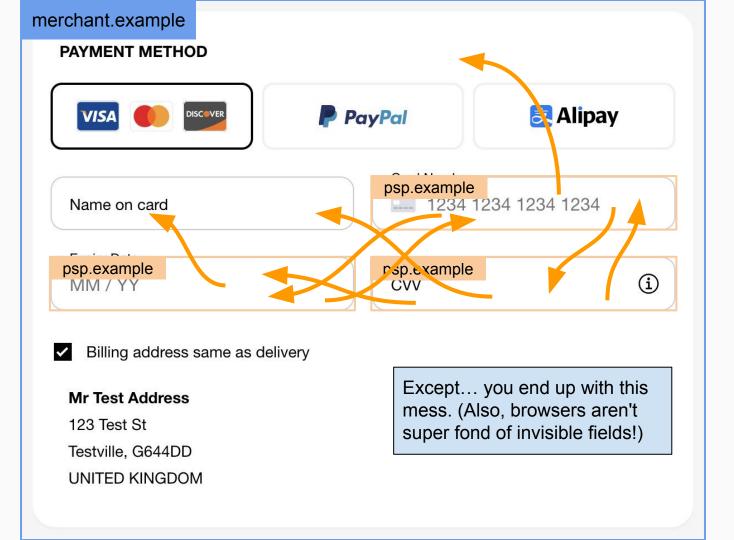
Contact Number

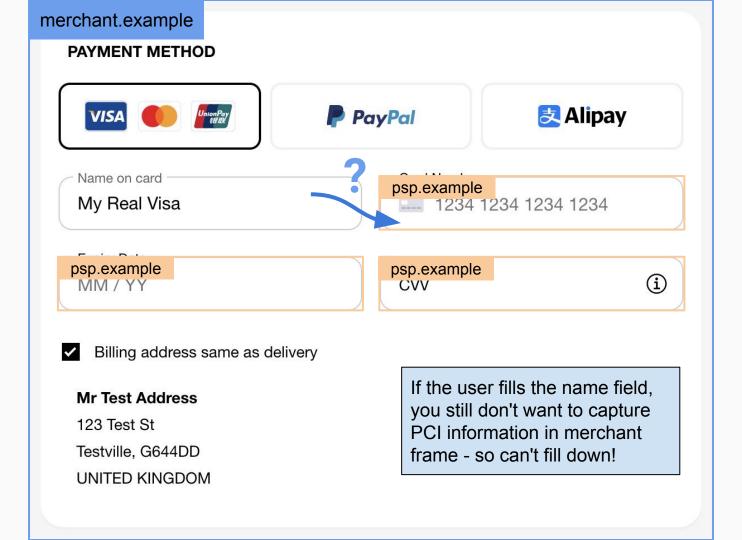
+441360622666

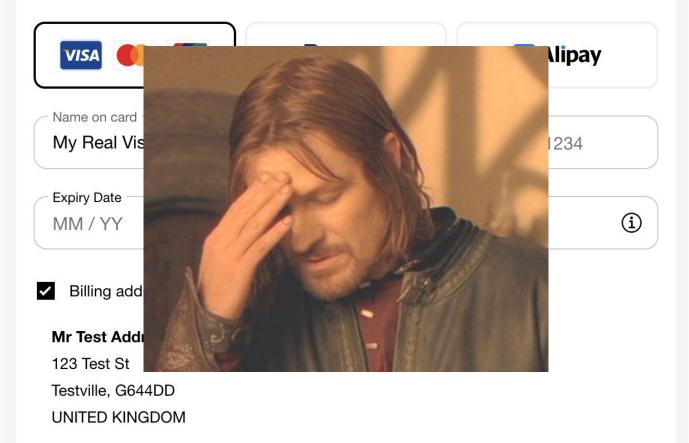


Solving it in JavaScript





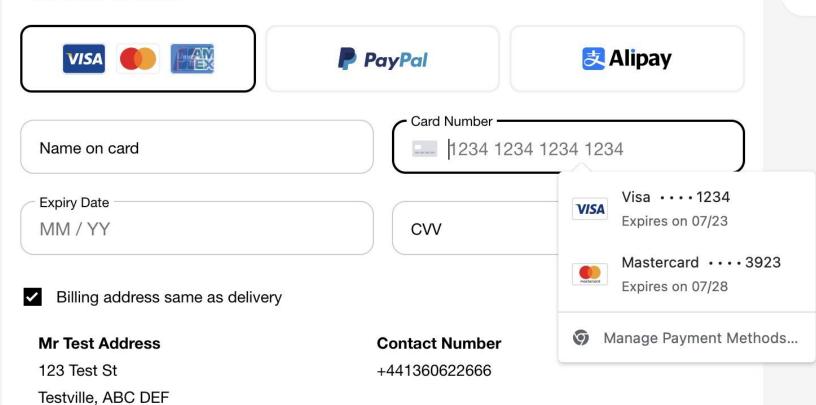


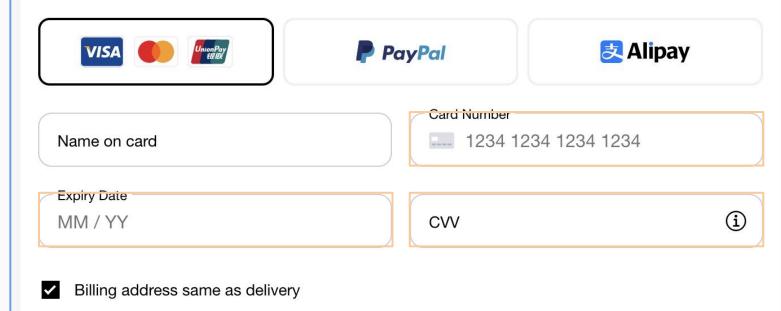


Doing it right - browser support

#1 - Fill across same-origin frames

UNITED KINGDOM





Mr Test Address

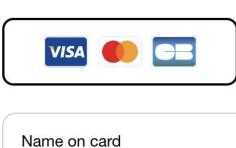
123 Test St

Testville, ABC DEF

UNITED KINGDOM

Contact Number

+441360622666







Name on card

VISA 4000 1234 1234 1234

Expiry Date
07 / 23

123

CVV

Card Number

(i)

Billing address same as delivery

Mr Test Address

123 Test St

Testville, ABC DEF

UNITED KINGDOM

Contact

+441360 p

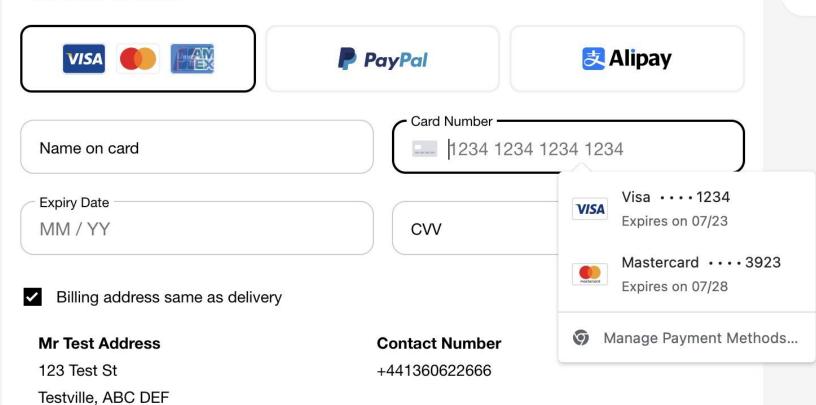
No invisible fields or postMessage required!

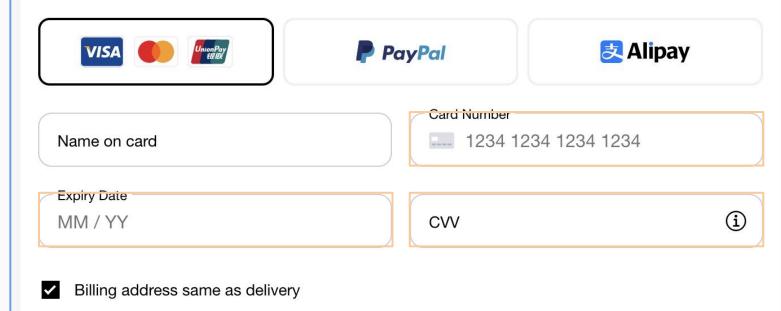
#1 - Fill across same-origin frames

- Already shipped in Chrome M116!
- Hoping to spec as part of https://github.com/whatwg/html/pull/8801

#2 - 'Upwards' fill of less sensitive info

UNITED KINGDOM





Mr Test Address

123 Test St

Testville, ABC DEF

UNITED KINGDOM

Contact Number

+441360622666







VISA 4000 1234 1234 1234

Card Number

07 / 23

CVV

123

(i)

✓ Billing address same as delivery

Mr Test Address

123 Test St

Testville, ABC DEF

UNITED KINGDOM

Contact

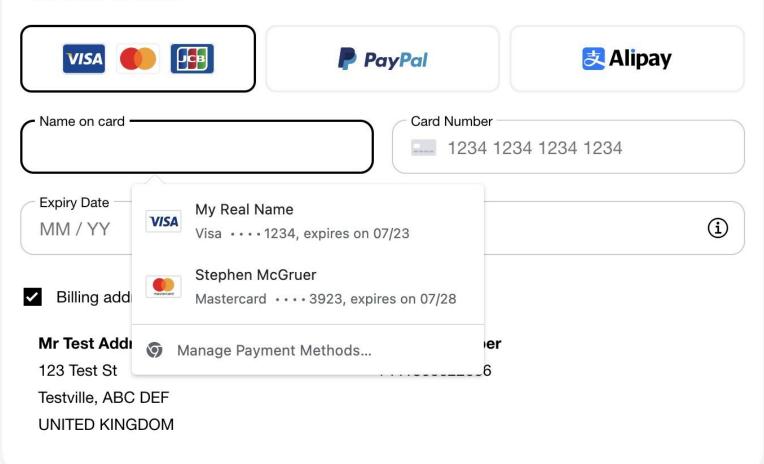
+441360

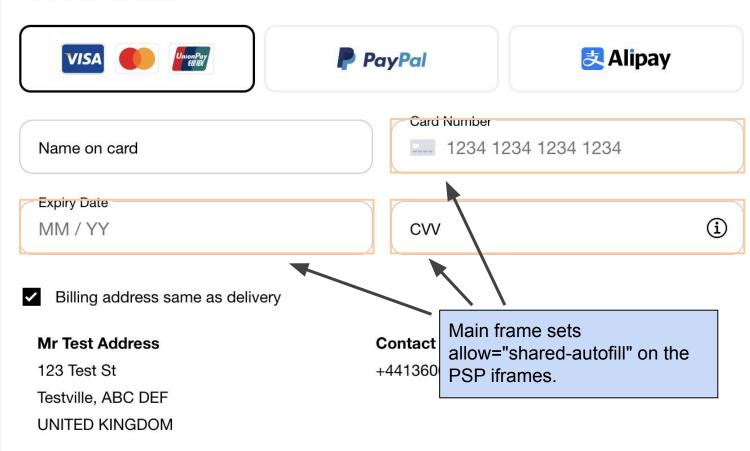
Cardholder name considered 'less sensitive', automatically fill 'up' into the main frame origin.

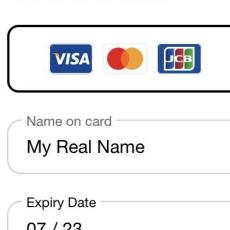
#2 - 'Upwards' fill of less sensitive info

- Already shipped in Chrome M116!
- Maybe spec as part of https://github.com/whatwg/html/pull/8801

#3 - 'shared-autofill' permission policy











VISA 4000 1234 1234 1234

07 / 23

123

Card Number

(i)

Billing address same as delivery

Mr Test Address

123 Test St

Testville, ABC DEF

UNITED KINGDOM

Contact

+441360

Browser fills 'down' into the trusted iframes.

#3 - 'shared-autofill' permission policy

- Not yet shipped (available behind AutofillSharedAutofill flag in Chrome M116)
- https://github.com/schwering/shared-autofill

My asks to you

- If you're a merchant/PSP, help me understand why do you make cardholder name part of the main frame and not another PSP iframe?!
 - (And sometimes the expiration date is in the main frame too why?)
- If you're supportive of these ideas, let us know! (Planning to send a summary of WPWG support to W3C TAG thread).
- If you have concerns about the ideas, let's talk:).