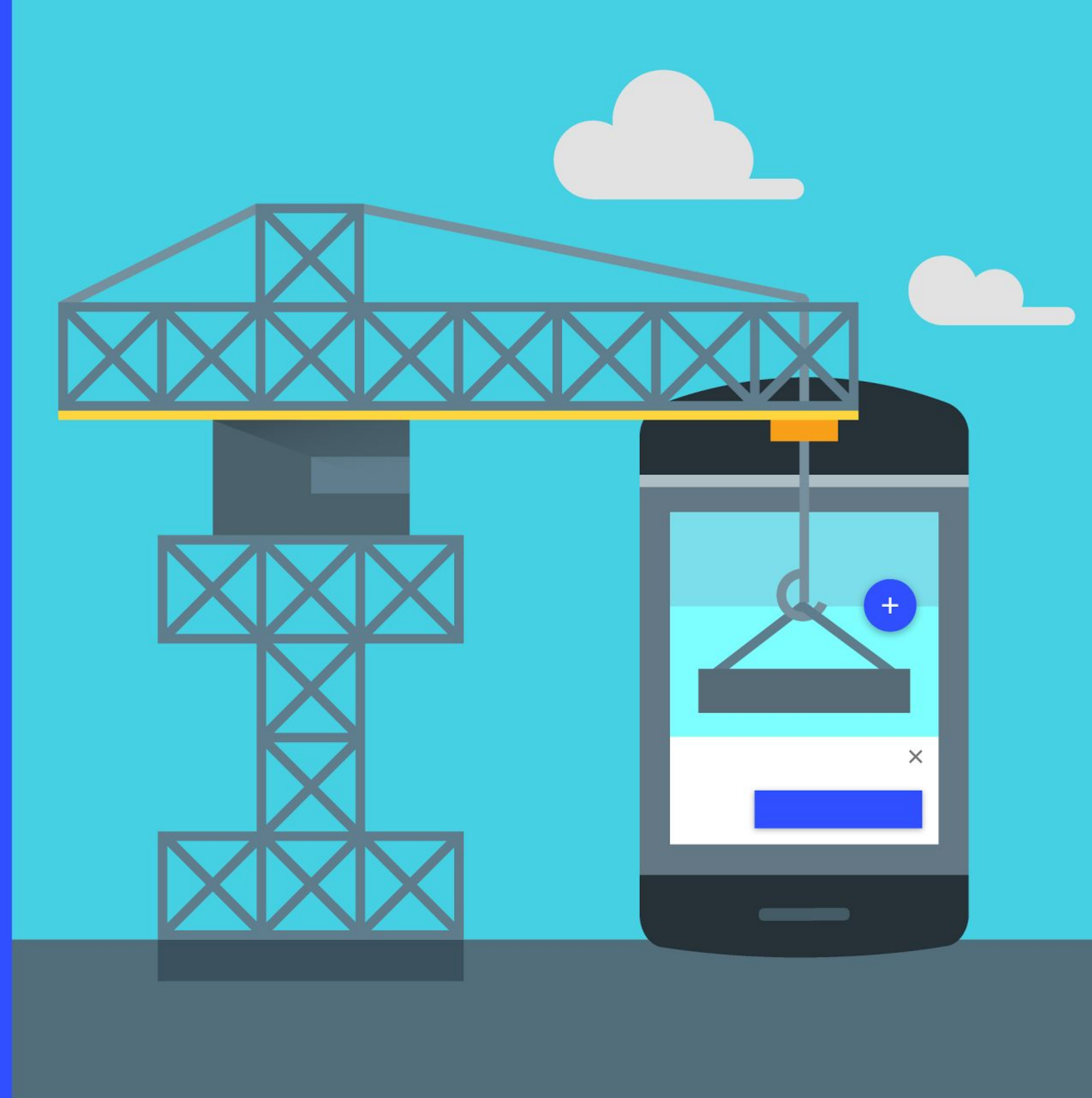


Web Payment Integration

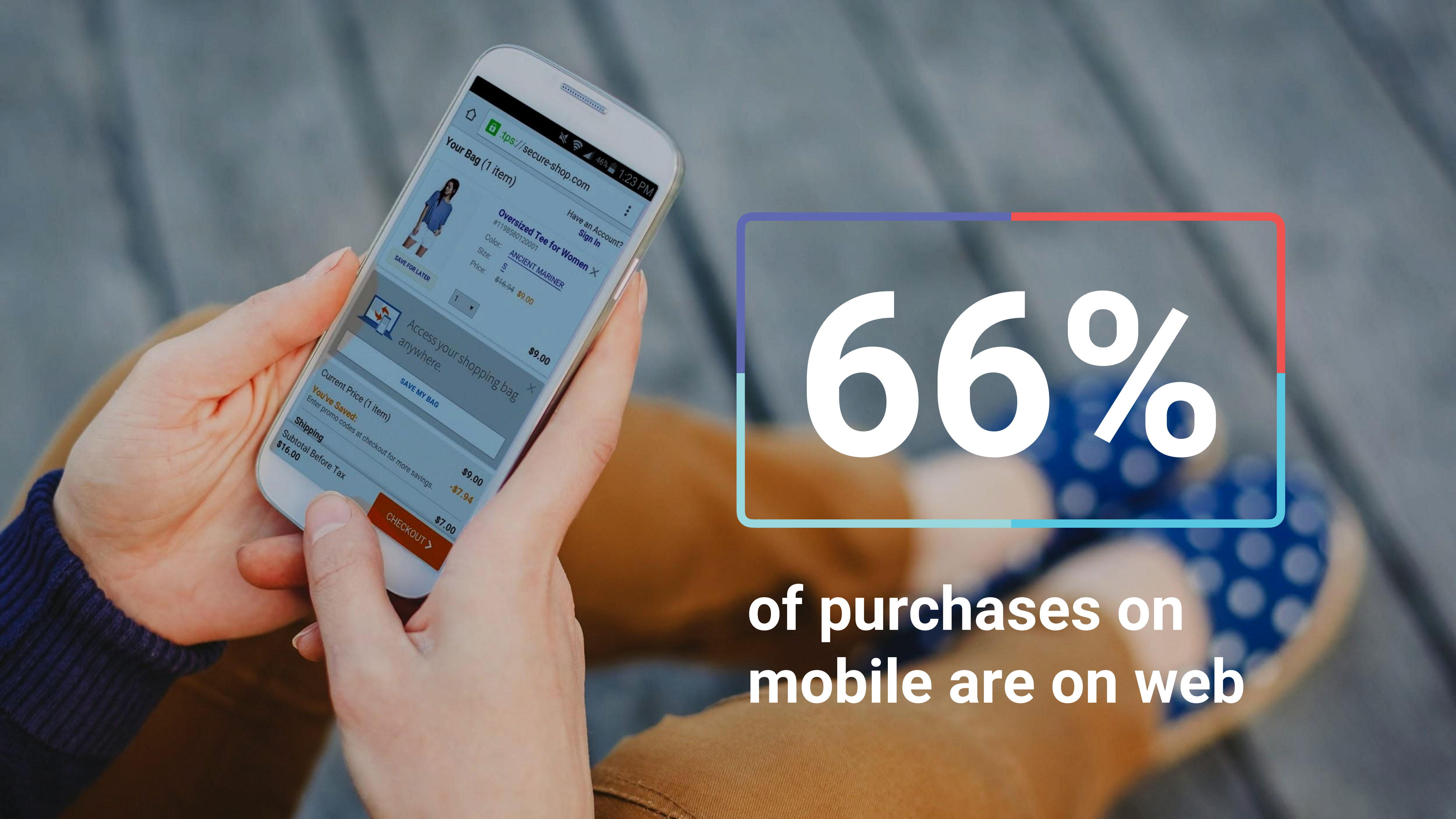
With the PaymentRequest API



Agenda

1. Paying for things on the web
2. PaymentRequest API
3. How payment request processing works
4. Resources

Paying for things on the web



66%

of purchases on
mobile are on web

Checkout forms today



Manual



Tedious



Slow



N-taps

Design goals

User

Pay as quickly as possible

Browser

Facilitate the payment interaction between the user and the site

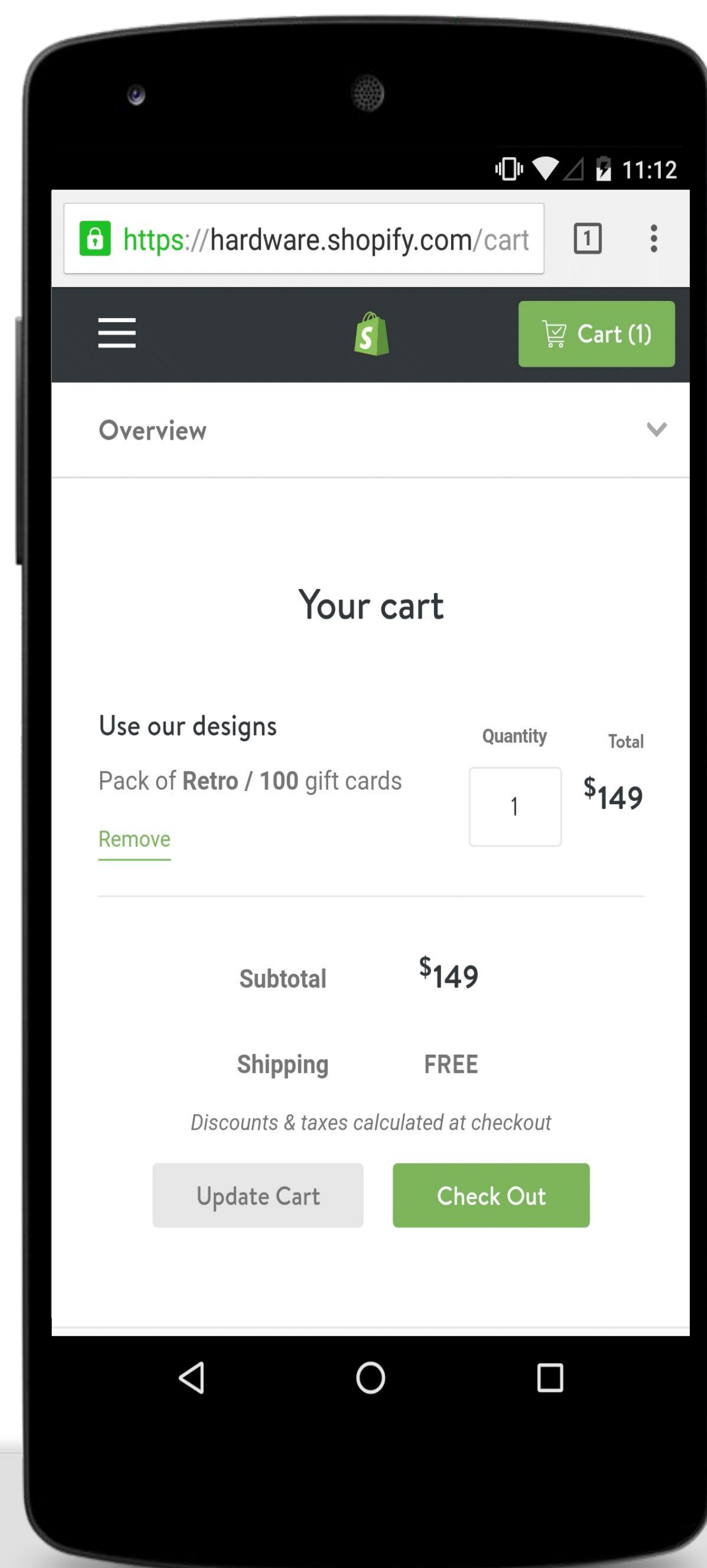
Site

Get data needed to process transaction as quickly as possible

PaymentRequest API

PaymentRequest

*A W3C API to eliminate
checkout forms for **users**
and standardize payment
collection for **sites***



What is PaymentRequest?

1. A new, standards-based web platform (JavaScript) API to enable **fast**, **seamless**, and **secure** payments on the web platform
2. A fast and pain-free data collection system to help users check out faster
3. A way to bring secure, tokenized payments into the web (browser as middleman)

Designing PaymentRequest at W3C



Cross-browser



Cross-platform



Open ecosystem

Checkout with PaymentRequest



Automatic



Simple



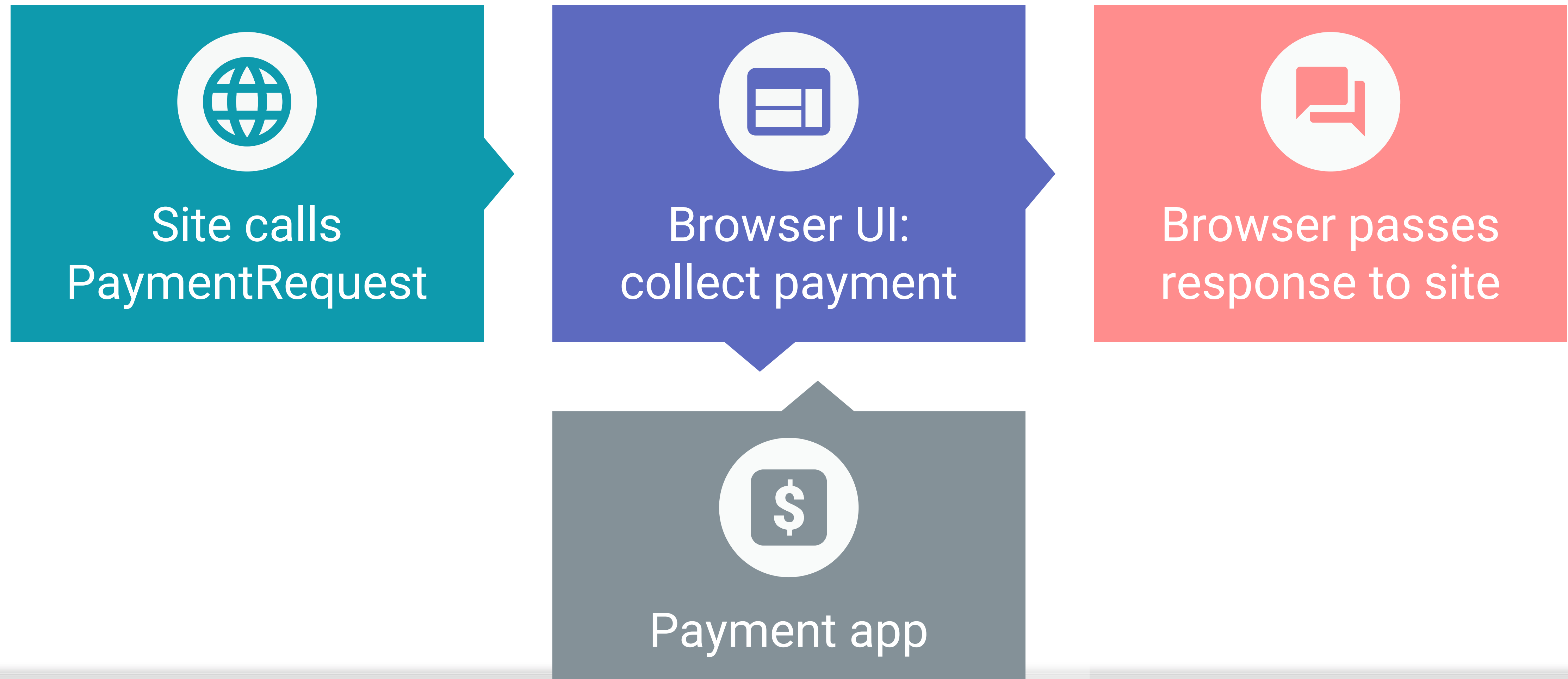
Fast



1-tap

How payment request processing works

How `PaymentRequest()` works



PaymentRequest: supported methods

```
var methodData = [  
  {  
    supportedMethods: ['visa', 'discover']  
  }, {  
    supportedMethods: ['https://android.pay/pay'],  
    data: {  
      merchantID: '12345'  
    }  
  }  
];
```


PaymentRequest Samples

[PaymentRequest](#) lets you accept payment from different payment methods, and allows other options for shipping and delivery/contact information. See the code samples at [googlechrome.github.io](https://github.com/googlechrome):

- [Credit cards](#)
- [Android Pay](#)
- [Free shipping](#)
- [Shipping options](#)
- [Dynamic shipping](#)
- [Contact info](#)
- [Server side](#)

PaymentRequest: transaction details

```
var details = {  
  total: {label: 'Total', amount: {currency: 'USD', value: '55.00'}},  
  displayItems: [{  
    label: 'Subtotal',  
    amount: {currency: 'USD', value: '65.00'}  
  }],  
  shippingOptions: [{  
    id: 'free',  
    label: 'Worldwide free shipping!',  
    amount: {currency: 'USD', value: '0.00'},  
    selected: true //optional  
  }]  
};
```

PaymentRequest: options

```
var options = {  
  requestShipping: true,  
  requestPayerEmail: true,  
  requestPayerPhone: true  
}
```


PaymentRequest: shipping details

```
var request = new PaymentRequest(methods, details, options);

request.addEventListener('shippingaddresschange', function(evt) {
  evt.updateWith(new Promise(function(resolve) {
    var newDetails = getNewDetails(request.shippingaddress);
    resolve(newDetails);
  }));
});
```

PaymentRequest: PaymentResponse

```
interface PaymentResponse {  
  readonly attribute DOMString      methodName;  
  readonly attribute object          details;  
  readonly attribute PaymentAddress? shippingAddress;  
  readonly attribute DOMString?      shippingOption;  
  readonly attribute DOMString?       payerEmail;  
  readonly attribute DOMString?       payerPhone;  
  
  Promise<void> complete(optional PaymentComplete result = "");  
};
```

Resources

Integration Guide:

goo.gl/OYeDXx

Code samples:

googlechrome.github.io/samples/paymentrequest/

Android pay samples:

github.com/asieke/prguide

Full fancy demo:

Emerald-eon.appspot.com

Extra code examples

PaymentRequest: payment method

```
new PaymentRequest(
  [{supportedMethods: ["visa", "mastercard", "amex", "discover"]}], {
    total: {
      label: "Total excluding shipping",
      amount: { currency: "USD", value: "60.00" }, // $60.00
    },
    displayItems: [
      {
        label: "Sub-total",
        amount: { currency: "USD", value: "55.00" }, // $55.00
      },
      {
        label: "Sales Tax",
        amount: { currency: "USD", value: "5.00" }, // $5.00
      }
    ]
  },
  {
    requestShipping: true
  }
).show().then(response => { /* process payment */ }).catch(error => { /* handle */ });
```

Support for Android Pay

```
var request = new PaymentRequest(  
    [{ // add Android Pay as supported  
        supportedMethods: ["https://android.com/pay"],  
        data: {  
            // add Android Pay application specific parameters  
            "merchantName": "Put Your Android Pay Merchant Name Here",  
            "merchantId": "put_your_android_pay_merchant_id_here",  
            "allowedCardNetworks": ["AMEX", "VISA", "MASTERCARD"],  
            "paymentMethodTokenizationParameters": {  
                "tokenizationType": "GATEWAY_TOKEN",  
                "parameters": {  
                    "gateway": "stripe",  
                    "stripe:publishableKey": "...",  
                    "stripe:version": "2016-07-06"}}}  
        }], {  
        total: {...}, displayItems: [...]  
    });
```