Collect.js

Overview

Collect.js is a JavaScript framework that allows merchants to collect sensitive payment information from their customers without exposing their website to the sensitive information. This can be done while allowing merchants to retain full control over the look and feel of their checkout experience.

This is a data collection and tokenization system, not a full payments API, so you can use this in conjunction with an existing transaction API (Payment API) to submit transactions or use other gateway services that utilize payment information.

Usage

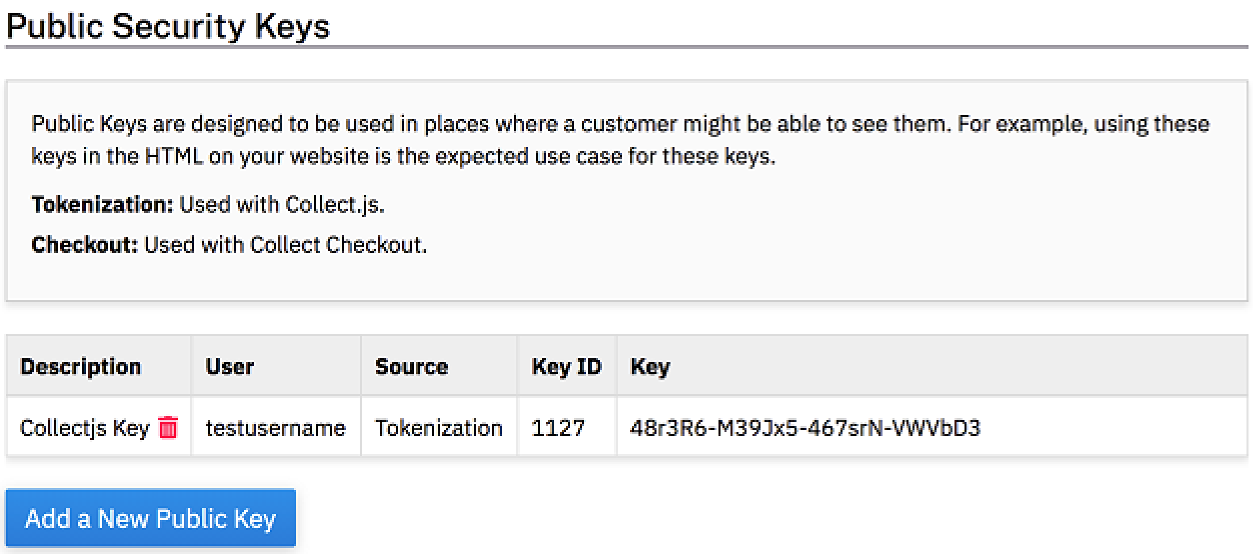
Collect.js is designed to be flexible, and its implementation can be as simple as pasting a single script tag to your checkout page, or it can be customized to interact with your website however you'd like.

Authentication

Authentication is done via a "tokenization key" that you can generate in your merchant control panel under the "Security Keys" settings page. Select a public key, and then "Tokenization" for the key permissions.

This tokenization key can only be used with Collect.js and will not work with any other APIs. Similarly, any API keys already created will not work with Collect.js.

This key will be visible to customers in your website's source code, so please make sure you only use the tokenization key here.



Public Security Keys

Public Keys are designed to be used in places where a customer might be able to see them. For example, using these keys in the HTML on your website is the expected use case for these keys.

Tokenization: Used with Collect.js.

Checkout: Used with Collect Checkout.

Description	User	Source	Key ID	Key
Collectjs Key	testusername	Tokenization	1127	48r3R6-M39Jx5-467srN-VWVbD3

The Payment Token

This is a new variable added to the Payment API that should be used in conjunction with this tool. This is what Collect.js will return to your website and it takes the place of the sensitive card or bank account information. It will look something like this:

```
3455zJms-7qA2K2-VdVrSu-Rv7WpvPuG7s8
```

This variable can be used in place of the existing ccnumber, ccexp, and cvv variables we have today. For ACH transactions (details below) it can be used in place of checkname, checkaba, and checkaccount.

The payment token can only be used once, and will expire after 24 hours if it is not used at all.

The payment token will also work when adding customers to the Customer Vault or recurring subscriptions. Just use "payment_token" where you were using the credit card and ACH account information before.

For example, if you would previously send this string:

```
type=sale&amount=3.00&ccnumber=4111111111111111&ccexp=1020&cvv=123
```

Or:

```
type=sale&amount=3.00&checkname=Jane Doe&checkaba=490000018&checkaccount=24413815
```

You could now send this:

```
type=sale&amount=3.00&payment_token=3455zJms-7qA2K2-VdVrSu-Rv7WpvPuG7s8
```

Test Tokens

If you would like to test using the payment token without using Collect.js to create one, you can use the below tokens to return test credit card and bank account information.

Payment Token Value	Test Data
00000000-000000-000000-000000000000	Card: 4111111111111111, Expiration: October 2025, CVV: 999
11111111-111111-111111-111111111111	ABA: 490000018, Account: 24413815, Name: Jane Doe

Integration Types

Collect.js supports two different ways to integrate with your site. Both offer the same basic functionality and security, so you can choose based on your interface and design requirements,

Lightbox Integration

The "lightbox" integration displays all sensitive payment fields in a single "pop-up" style display. All the entry and validation of payment data occurs within this single box; once valid information is provided, an event is provided for your page to capture the finished Payment Token.

Inline Integration

The "inline" integration allows you to seamlessly build Collect.js into your payment form. This solution allows you to create a payment form that looks and feels exactly like your website, but without the need for your service to handle any sensitive payment information.

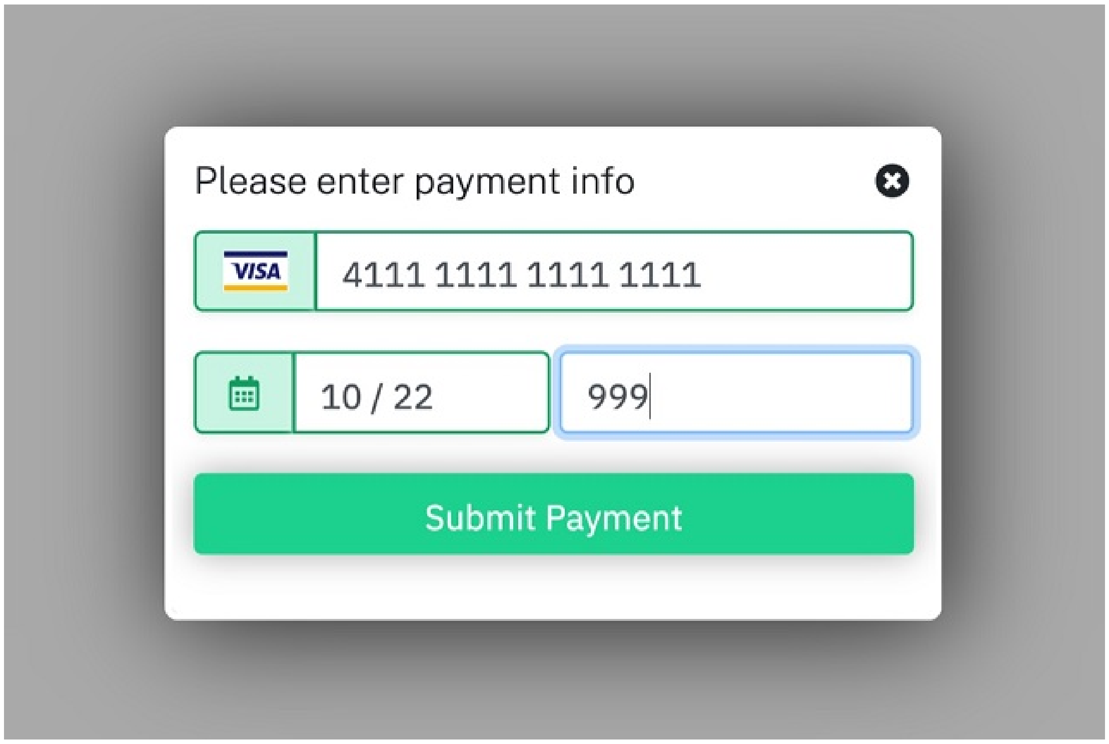
This works by creating iframes on your website for each credit card or electronic check field you need your customers to fill out. Using our custom "style sniffer" these fields will typically look exactly like the other fields on the page. If you want to just style them however you want, you can do that too by passing in custom CSS.

Simple Lightbox Implementation

The simplest way to integrate is by pasting in the following script tag to your web page (preferably in the header) where you'll be collecting payments:

```
<script src="https://secure.magicpaygateway.com/token/Collect.js" data-
tokenization-key="your-token-key-here"></script>
```

With this script, you just need to add a button with the ID of "payButton" to your page inside a form where you ask for the customer's information (name, address, email, etc.) You should make this button somewhere that indicates to the customer that they will be prompted to enter their card information and check out. Collect.js will find this button and display the below form in a lightbox over your website.



The customer will enter their card information and when they submit this mini-form, the lightbox will disappear, a hidden field will be inserted into your form with the "payment_token" value, and your form will be submitted.

You can then submit the transaction to the gateway with the Payment API using the "payment_token" variable.

Advanced Lightbox Implementation

If you want to have a little more control over the default behavior, you can pass in additional data elements in the script tag. Here’s an example using all the available variables:

```
<script
src="https://secure.magicpaygateway.com/token/Collect.js"
data-tokenization-key="your-token-key-here"
data-payment-selector=".customPayButton"
data-primary-color="#ff288d"
data-theme="bootstrap"
data-secondary-color="#ffe200"
data-button-text="Submit the Payment"
data-instruction-text="Enter Card Information"
data-payment-type="cc"
data-field-cvv-display="hide"
data-price="1.00"
data-currency="USD"
data-country="US"
data-field-google-pay-shipping-address-required="true"
data-field-google-pay-shipping-address-parameters-phone-number-required="true"
data-field-google-pay-shipping-address-parameters-allowed-country-codes="US,CA"
data-field-google-pay-billing-address-required="true"
data-field-google-pay-billing-address-parameters-phone-number-required="true"
data-field-google-pay-billing-address-parameters-format="MIN"
data-field-google-pay-email-required="true"
data-field-google-pay-button-type="buy"
data-field-google-pay-button-locale="en"
data-field-google-pay-button-color="default"
data-field-apple-pay-shipping-type="delivery"
data-field-apple-pay-shipping-methods='[{"label":"Free Standard
Shipping","amount":"0.00","detail":"Arrives in 5-7
days","identifier":"standardShipping"},{"label":"Express
Shipping","amount":"10.00","detail":"Arrives in 2-3
days","identifier":"expressShipping"}]'
data-field-apple-pay-required-billing-contact-fields='["postalAddress","name"]'
data-field-apple-pay-required-shipping-contact-fields='["postalAddress","name"]'
data-field-apple-pay-contact-fields='["phone","email"]'
data-field-apple-pay-contact-fields-mapped-to='shipping'
data-field-apple-pay-line-
items='[{"label":"Foobar","amount":"3.00"},{"label":"Arbitrary Line Item
#2","amount":"1.00"}]'
data-field-apple-pay-total-label='foobar'
data-field-apple-pay-total-type='pending'
data-field-apple-pay-type='buy'
data-field-apple-pay-style-button-style='black'
data-field-apple-pay-style-height='40px'
data-field-apple-pay-style-border-radius='4px'
data-field-apple-pay-is-recurring-transaction="true"
data-field-apple-pay-recurring-payment-description="A description of the recurring
payment to display to the user in the payment sheet."
data-field-apple-pay-recurring-billing-agreement="A localized billing agreement
```

```
displayed to the user in the payment sheet prior to the payment authorization."
data-field-apple-pay-recurring-management-url="https://applepaydemo.apple.com"
data-field-apple-pay-recurring-token-notification-
url="https://applepaydemo.apple.com"
data-field-apple-pay-recurring-label="Recurring"
data-field-apple-pay-recurring-amount="4.99"
data-field-apple-pay-recurring-payment-timing="recurring"
data-field-apple-pay-recurring-recurring-payment-start-date="2023-08-
11T11:20:32.369Z"
data-field-apple-pay-recurring-recurring-payment-interval-unit="month"
data-field-apple-pay-recurring-recurring-payment-interval-count="6"
data-field-apple-pay-recurring-recurring-payment-end-date="2024-08-
11T11:20:32.369Z"
></script>
```

Configuration Variables

Variable	**Format**	**Behavior**
data-tokenization-key	String	Authenticates the request
data-payment-selector	String	Tells Collect.js what class or id value will trigger the lightbox **Default: "#payButton"**
data-primary-color	String	The HEX value for the color of the submit button in the lightbox **Default: "#007BFF"**
data-theme	String ("bootstrap" or "material")	The version of the payment form customers will see. All available themes will use the primary and secondary colors provided. **Default: "bootstrap"**
data-secondary-color	String	The HEX value for the color of the lightbox border **Default: "#282828"**
data-button-text	String	The text that will display on the submit button in the lightbox **Default: "Submit Payment"**
data-instruction-text	String	The text that will display above the payment fields. Custom text should be short so as not to overlap with other elements in the lightbox. **Default: "Please enter payment info"**
data-payment-type	String ("cc" or "ck")	Whether the lightbox shows credit card or check fields ("cc" for credit cards or "ck" for checks) **Default: "cc"**
data-field-cvv-display	String ("show", "hide", or "required")	Whether the CVV field is required ("required"), optional ("show"), or not displayed at all ("hide"). Also supported as `data-field-cvv` for legacy users. **Default: "required"**
data-field-google-pay-selector	String	A CSS selector for the Google Pay field. **Default: "#googlepaybutton"**

Variable	Format	Behavior
data-field-google-pay-shipping-address-required	String ("true" or "false")	Determines whether or not Google Pay should capture shipping address information. Shipping information captured this way becomes stored in the payment token. **Default: "false"**
data-field-google-pay-shipping-address-parameters-phone-number-required	String ("true" or "false")	Determines whether or not Google Pay should capture a phone number from the user's shipping phone number. Phone numbers captured this way become stored in the payment token. **Default: "false"**
data-field-google-pay-shipping-address-parameters-allowed-country-codes	String (comma delimited list of 2 character country codes)	List of allowed countries. Credit cards from outside these countries will not be displayed as acceptable options within the Google Pay payment sheet. Omitting this value allows credit cards from any country. **Default: undefined**
data-field-google-pay-billing-address-required	String ("true" or "false")	Determines whether or not Google Pay should capture billing address information. Billing information captured this way becomes stored in the payment token. **Default: "false"**
data-field-google-pay-billing-address-parameters-phone-number-required	String ("true" or "false")	Determines whether or not Google Pay should capture a phone number from the user's billing phone number. Phone numbers captured this way become stored in the payment token. **Default: "false"**
data-field-google-pay-billing-address-parameters-format	String ("MIN" or "FULL")	Determines which billing address fields to capture from the user. "MIN" provides "zip", "country", "first_name" and "last_name". "FULL" additionally provides "address1", "address2", "city", "state". **Default: "MIN"**
data-field-google-pay-email-required	String ("true" or "false")	Determines whether or not Google Pay should capture an email address. Email addresses captured this way becomes stored in the payment token. **Default: "false"**
data-field-google-pay-button-type	String ("short", "long", "book", "buy", "checkout", "donate", "order", "pay", "plain", "subscribe", "short" or "long")	Determines the text that appears on the Google Pay button. **Default: "buy"**

Variable	Format	Behavior
data-field-google-pay-button-locale	String ("en", "ar", "bg", "ca", "cs", "da", "de", "el", "es", "et", "fi", "fr", "hr", "id", "it", "ja", "ko", "ms", "nl", "no", "pl", "pt", "ru", "sk", "sl", "sr", "sv", "th", "tr", "uk", "zh)	The language that the button text appears in. **Default: "en" (English)**
data-field-google-pay-button-color	String ("default", "black", "white")	The color to display the Google Pay button. "Default" allows Google to determine the color. **Default: "default"**
data-field-google-pay-total-price-status	String ("FINAL" or "ESTIMATED")	The status of the total price being used. "FINAL" should be used when the amount is not expected to change. "ESTIMATED" should be used when the amount might change based on upcoming factors such as sales tax based on billing address. **Default: "FINAL"**
data-field-apple-pay-selector	String (CSS Selector)	A CSS selector for the Apple Pay field. **Default: "#applepaybutton"**
data-field-apple-pay-shipping-type	String ("shipping", "delivery", "storePickup", or "servicePickup")	The way purchases will be sent to the customer. For transactions that do not need to be sent to a customer, omit data-field-apple-pay-required-shipping-contact-fields. **Default: "shipping"**
data-field-apple-pay-shipping-methods	String (JSON array of objects)	The shipping information that appears on the payment sheet. Example: '[{"label":"Free Standard Shipping","amount":"0.00","detail":"Arrives in 5-7 days","identifier":"standardShipping"}]' **Default: "[]"**
data-field-apple-pay-required-billing-contact-fields	String (JSON array of "name" or "postalAddress")	When "name" or "postalAddress" is provided, the payment sheet will collect a customer's name or address. These values will be included with the transaction's billing information. Example:'["name","postalAddress"]' **Default: "[]"**
data-field-apple-pay-required-shipping-contact-fields	String (JSON array of "name" or "postalAddress")	When "name" or "postalAddress" is provided, the payment sheet will collect a customer's name or address. These values will be included with the transaction's shipping information. Example:'["name","postalAddress"]' **Default: "[]"**
data-field-apple-pay-contact-fields	String (JSON array of "phone" or "email")	When "phone" or "email" is provided, the payment sheet will collect a customer's phone number or email address. Usage of this data is determined by the data-field-apple-pay-contact-fields-mapped-to value. Example: '["phone","email"]' **Default: "[]"**

Variable	Format	Behavior
data-field-apple-pay-contact-fields-mapped-to	String ("billing" or "shipping")	"billing" causes data collected via the data-field-apple-pay-contact-fields options to be included in a transactions "phone" and "email" values. "shipping" causes them to be included as "shipping_phone", "shipping_email". **Default: "billing"**
data-field-apple-pay-line-items	String (JSON array of objects)	Items that will appear in the Apple Pay payment sheet. Example: [{"label":"Foobar","amount":"3.00"}] **Default: "[]"**
data-field-apple-pay-total-label	String	Text that appears next to the final amount in the Apple Pay payment sheet. **Default: "Total"**
data-field-apple-pay-total-type	String ("pending" or "final")	A value that indicates whether the total is final or pending. When set to "pending" the customer will see "Amount Pending" on the ApplePay checkout form instead of a total amount. **Default: "final"**
data-field-apple-pay-type	String ("buy", "donate", "plain", "set-up", "book", "check-out", "subscribe", "add-money", "contribute", "order", "reload", "rent", "support", "tip", or "top-up")	The text that appears on an Apple Pay button. Some options are only supported by newer versions of iOS and macOS. **Default: "buy"**
data-field-apple-pay-style-button-style	String ("black", "white", or "white-outline")	The appearance of the Apple Pay button. **Default: "black"**
data-field-apple-pay-style-height	String	The height of the Apple Pay button. **Default: "30px"**
data-field-apple-pay-style-border-radius	String	The rounding of the corners on the Apple Pay button. **Default: "4px"**
data-field-apple-pay-recurring-payment-description	String	A description of the recurring payment to display to the user in the payment sheet. Value of data-field-apple-pay-is-recurring-transaction must be true in order to use. Required for recurring. **Example:** "Monthly subscription for premium features." **Default:** ""
data-field-apple-pay-is-recurring-transaction	String ("true" or "false")	Marks the Apple Pay transaction as a recurring transaction. **Default: "false"**
data-field-apple-pay-recurring-payment-description	String	A description of the recurring payment to display to the user in the payment sheet. Value of data-field-apple-pay-is-recurring-transaction must be true in order to use. Required for recurring. **Example:** "Monthly subscription for premium features." **Default:** ""

Variable	Format	Behavior
data-field-apple-pay-recurring-billing-agreement	String	A localized billing agreement displayed to the user prior to payment authorization. Value of data-field-apple-pay-is-recurring-transaction must be true in order to use. Optional. **Example:** "By subscribing, you agree to the terms and conditions." **Default:** ""
data-field-apple-pay-recurring-label	String	The label for the recurring payment. Example: "Recurring". Value of **data-field-apple-pay-is-recurring-transaction** must be **true** in order to use.
data-field-apple-pay-recurring-amount	String (Decimal)	The amount to be charged for the recurring payment. Example: "4.99". Value of **data-field-apple-pay-is-recurring-transaction** must be **true** in order to use.
data-field-apple-pay-recurring-payment-timing	String	The timing of the recurring payment. Example: "recurring". Value of **data-field-apple-pay-is-recurring-transaction** must be **true** in order to use.
data-field-apple-pay-recurring-payment-start-date	String (ISO 8601 Datetime)	The start date of the recurring payment. Example: "2023-08-11T11:20:32.369Z". Value of **data-field-apple-pay-is-recurring-transaction** must be **true** in order to use.
data-field-apple-pay-recurring-payment-interval-unit	String	The unit of time for the recurring payment interval. Possible values: "day", "week", "month", "year". Example: "month". Value of **data-field-apple-pay-is-recurring-transaction** must be **true** in order to use.
data-field-apple-pay-recurring-payment-interval-count	Integer	The number of units per payment interval. Example: 6. Value of **data-field-apple-pay-is-recurring-transaction** must be **true** in order to use.
data-field-apple-pay-recurring-payment-end-date	String (ISO 8601 Datetime)	The end date of the recurring payment. Example: "2024-08-11T11:20:32.369Z". If this field is omitted, the recurring transaction will continue until canceled.
data-field-apple-pay-recurring-management-url	String	A URL to the merchant's management portal where users can manage their subscriptions. Value of data-field-apple-pay-is-recurring-transaction must be true in order to use this field. Required for recurring. **Example:** "https://example.com/manage-tokens" **Default:** ""

Variable	Format	Behavior
data-field-apple-pay-recurring-token-notification-url	String	A URL where tokenization events (e.g., token refresh, expiration) are sent. Value of data-field-apple-pay-is-recurring-transaction must be true in order to use this field. Optional. **Example:** "https://example.com/token-notify" **Default:** ""
data-price	String	The final cost that the user will be charged. **Default: undefined** **Required if using Apple Pay**
data-country	String	The country where the transaction is processed. **Required if using Google Pay or Apple Pay**
data-currency	String	The currency the transaction will use to process the transaction. **Required if using Google Pay or Apple Pay**

Collect.js Functions

Function Name	Parameters	Description
configure	Object	Call this when you'd like to reconfigure Collect.js. Collect.js will try to run this automatically on page load, but you can run it manually to change the configuration at any time. This method optionally accepts an object with all configuration variables you're using for Collect.js.
startPaymentRequest	Event	Call this to bring up the lightbox with the secure payment form for the customer to fill out. If you are using the "payButton" ID or custom payment selector, this will automatically be called when the customer clicks that element on the page. This method accepts an event object as an optional parameter and will call the provided callback function with a token response and the optional event.
closePaymentRequest		Call this to dismiss the lightbox. This replicates the behavior of the user clicking the "close" button inside the lightbox. No card or checking information will be saved.

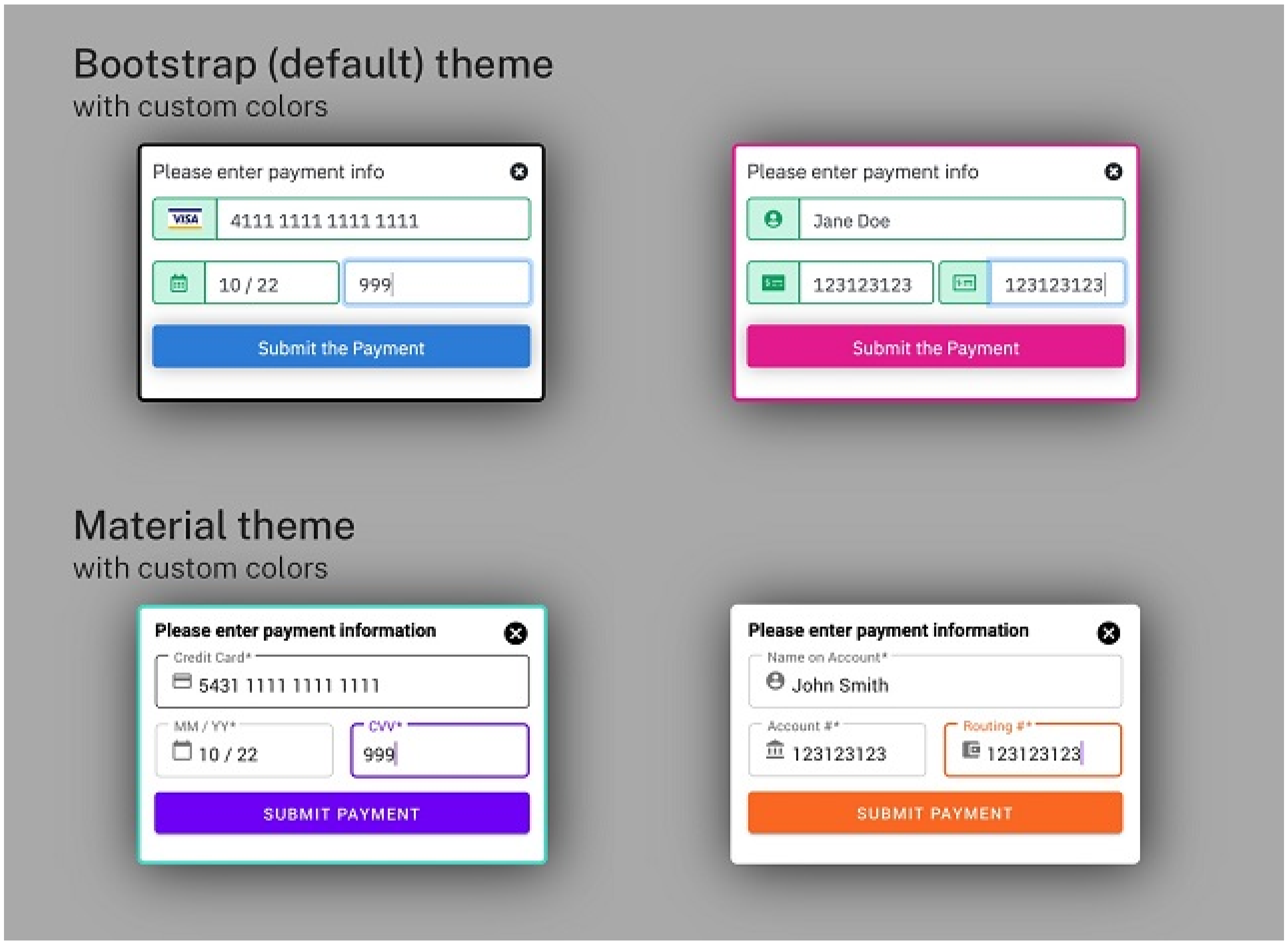
You may also choose to configure Collect.js directly in your JavaScript, in which case you can do all of the above, and also implement a callback function that will execute when the customer submits the lightbox form. The payment token value will be returned in a "response" variable that you can do whatever you'd like with.

```
{
tokenType:"lightbox",
token:"3455zJms-7qA2K2-VdVrSu-Rv7WpvPuG7s8",
initiatedBy: Event,
card:{
number: "411111******1111",
bin: "411111",
exp: "1028",
hash: "abcdefghijklmnopqrstuv1234567890",
type: "visa"
},
check:{
name:null,
account:null,
hash:null,
aba:null,
transit:null,
institution:null
},
wallet: {
cardDetails: null,
cardNetwork: null,
email: null,
billingInfo: {
address1: null,
address2: null,
firstName: null,
lastName: null,
postalCode: null,
city: null,
state: null,
country: null,
phone: null

},
shippingInfo: {
address1: null,
address2: null,
firstName: null,
lastName: null,
postalCode: null,
city: null,
state: null,
country: null,
phone: null
}

}
}
```

This implementation method allows for additional changes to the look and feel to better match your website's UI



Bootstrap (default) theme
with custom colors

Please enter payment info

4111 1111 1111 1111

10 / 22

999

Submit the Payment

Please enter payment info

Jane Doe

123123123

123123123

Submit the Payment

Material theme
with custom colors

Please enter payment information

Credit Card*: 5431 1111 1111 1111

MM / YY*: 10 / 22

CVV*: 999

SUBMIT PAYMENT

Please enter payment information

Name on Account*: John Smith

Account #*: 123123123

Routing #*: 123123123

SUBMIT PAYMENT

Expert Lightbox Implementation

If you have a webpage where you would like the lightbox to trigger without an element getting clicked, then you can call the following function:

```
CollectJS.startPaymentRequest(event)
```

This function will trigger the lightbox to show up and request payment details. If you wish to change any options, this should be done before calling this function since changes after this point wont affect the lightbox.

This function optionally receives an event object. If an event is passed into the startPaymentRequest function, that same event will exist in the callback's response variable under "response.initiatedBy". This can be used to track what event started the payment request and the next steps.

```
{
tokenType:"lightbox",
token:"3455zJms-7qA2K2-VdVrSu-Rv7WpvPuG7s8",
initiatedBy: Event,
card:{
number: "411111******1111",
bin: "411111",
exp: "1028",
hash: "abcdefghijklmnopqrstuv1234567890",
type: "visa"
},
check:{
name:null,
account:null,
hash:null,
aba:null,
transit:null,
institution:null
},
wallet: {
cardDetails: null,
cardNetwork: null,
email: null,
billingInfo: {
address1: null,
address2: null,
firstName: null,
lastName: null,
postalCode: null,
city: null,
state: null,
country: null,
phone: null
},
shippingInfo: {
address1: null,
address2: null,
firstName: null,
lastName: null,
postalCode: null,
city: null,
state: null,
country: null,
phone: null
}

}
}
```

If you wish to close the payment request without waiting for the user to click the close button, you can call the function:

```
CollectJS.closePaymentRequest()
```

This function will remove the lightbox from the page. No other functions will trigger from this function being called, including the callback.

Note that this implementation also requires you to include the standard script tag on the page as well.

Simple Integration Implementation

While the Inline integration model offers many customizable options, you can also get started quickly with a basic form. First, install the following JavaScript on your payment form page, preferably in the HEAD element:

```
<script src="https://secure.magicpaygateway.com/token/Collect.js" data-
tokenization-key="your-token-key-here" data-variant="inline"></script>
```

This script assumes that you've set up a payment form already. The form can be laid out however you'd like, but there should be block-level elements (`div`, for example) where the sensitive payment info will be collected. The following IDs are expected to be used in place of standard form inputs:

For Credit Card Payments

- `ccnumber` (Credit card number)
- `ccexp` (Credit card expiration date)
- `cvv` (CVV)

For Electronic Check Payments

- `checkname` (Checking account name)
- `checkaccount` (Checking account number)
- `checkaba` (Routing number)
- `checktransit` (Check transit)
- `checkinstitution` (Check institution)

This is a very basic form that has integrated Inline Collect.js.

```
<form>
<input type="text" id="first_name">
<input type="text" id="last_name">
<input type="text" id="address">
<div id="ccnumber"></div>
<div id="ccexp"></div>
<div id="cvv"></div>
<input type="submit" id="payButton">
</form>
```

These elements will have iframes inserted into them, contents of which will be hosted by the gateway. They will be full width text fields and will use the style sniffer to match the rest of your page. The ID values let us know what field is collecting what information from the customer.

In addition to the empty fields, there must be a submit button in the form with an ID of "`payButton`." When the customer clicks this to submit the form, Collect.js will collect the data from all inline iframes and submit the form with a new "`payment_token`" value which is an encrypted version of the payment data.

After this form is submitted to your site, you can submit the data to the gateway via the Payment API. For example:

```
security_key: 3456h45k6b4k56h54kj6h34kj6445hj4
type: sale
amount: 4.00
payment_token: 3455zJms-7qA2K2-VdVrSu-Rv7WpvPuG7s8
first_name: Jane
last_name: Doe
address: 123 Main St.
```

If you are using `checktransit` and `checkinstitution` make sure you include currency of "CAD" when you submit the data to the gateway via the Payment API. For example:

```
security_key: 3456h45k6b4k56h54kj6h34kj6445hj4
type: sale
amount: 4.00
payment_token: 3455zJms-7qA2K2-VdVrSu-Rv7WpvPuG7s8
first_name: Jane
last_name: Doe
address: 123 Main St.
currency: CAD
```

Advanced Implementation Method

If the simple implementation does not give you everything you need, then you can use the advanced implementation to customize the experience more to your liking. The options available are extensive, and you may use as many or as few as you want. Below is an example of using every variable possible.

```
<script
src="https://secure.magicpaygateway.com/token/Collect.js"
data-tokenization-key="your-token-key-here"
data-variant="inline"
data-payment-selector="#demoPayButton"
data-style-sniffer="false"
data-google-font="Montserrat:400"
data-validation-callback = "(function (field, valid, message) {console.log(field +
': ' + valid + ' -- ' + message)})"
data-custom-css='{
"background-color": "#a0a0ff",
"color": "#0000ff"
}'
data-invalid-css='{
"background-color":"red",
"color":"white"
}'
data-valid-css='{
"background-color":"#d0ffd0",
"color":"black"
}'
data-placeholder-css='{
"background-color":"#687C8D",
"color":"green"
}'
data-focus-css='{
"background-color":"#202020",
"color":"yellow"
}'
data-timeout-duration = "10000"
data-timeout-callback = "(function() {console.log('Timeout reached')})"
data-apple-pay-recurring-mismatch-callback = "(function() {console.log('Apple Pay
version needs to be updated')})"
data-fields-available-callback = "(function() {console.log('Collect.js has added
fields to the form')})"
data-field-ccnumber-selector = '#demoCcnumber'
data-field-ccnumber-title = 'Card Number'
data-field-ccnumber-placeholder = '0000 0000 0000 0000'
data-field-ccexp-selector = '#demoCcexp'
data-field-ccexp-title = 'Expiration Date'
data-field-ccexp-placeholder = '00 / 00'
data-field-cvv-display = 'required'
data-field-cvv-selector = '#demoCvv'
data-field-cvv-title = 'CVV Code'
data-field-cvv-placeholder = '***'
```

```
data-field-checkaccount-selector = '#demoCheckaccount'
data-field-checkaccount-title = 'Account Number'
data-field-checkaccount-placeholder = '000000000000'
data-field-checkaba-selector = '#demoCheckaba'
data-field-checkaba-title = 'Routing Number'
data-field-checkaba-placeholder = '000000000'
data-field-checkname-selector = '#demoCheckname'
data-field-checkname-title = 'Account Name'
data-field-checkname-placeholder = 'Customer Name'
data-field-checktransit-selector = '#demoChecktransit'
data-field-checktransit-title = 'Check Transit'
data-field-checktransit-placeholder = '00000'
data-field-checkinstitution-selector = '#demoCheckinstitution'
data-field-checkinstitution-title = 'Check Institution'
data-field-checkinstitution-placeholder = '000'
data-price="1.00"
data-currency="USD"
data-country="US"
data-field-google-pay-shipping-address-required="true"
data-field-google-pay-shipping-address-parameters-phone-number-required="true"
data-field-google-pay-shipping-address-parameters-allowed-country-codes="US,CA"
data-field-google-pay-billing-address-required="true"
data-field-google-pay-billing-address-parameters-phone-number-required="true"
data-field-google-pay-billing-address-parameters-format="MIN"
data-field-google-pay-email-required="true"
data-field-google-pay-button-type="buy"
data-field-google-pay-button-locale="en"
data-field-google-pay-button-color="default"
data-field-apple-pay-shipping-type="delivery"
data-field-apple-pay-shipping-methods='[{"label":"Free Standard
Shipping","amount":"0.00","detail":"Arrives in 5-7
days","identifier":"standardShipping"},{"label":"Express
Shipping","amount":"10.00","detail":"Arrives in 2-3
days","identifier":"expressShipping"}]'
data-field-apple-pay-required-billing-contact-fields='["postalAddress","name"]'
data-field-apple-pay-required-shipping-contact-fields='["postalAddress","name"]'
data-field-apple-pay-contact-fields='["phone","email"]'
data-field-apple-pay-contact-fields-mapped-to='shipping'
data-field-apple-pay-line-
items='[{"label":"Foobar","amount":"3.00"},{"label":"Arbitrary Line Item
#2","amount":"1.00"}]'
data-field-apple-pay-total-label='foobar'
data-field-apple-pay-total-type='pending'
data-field-apple-pay-type='buy'
data-field-apple-pay-style-button-style='black'
data-field-apple-pay-style-height='40px'
data-field-apple-pay-style-border-radius='4px'
data-field-apple-pay-is-recurring-transaction="true"
data-field-apple-pay-recurring-payment-description="A description of the recurring
payment to display to the user in the payment sheet."
data-field-apple-pay-recurring-billing-agreement="A localized billing agreement
displayed to the user in the payment sheet prior to the payment authorization."
data-field-apple-pay-recurring-management-url="https://applepaydemo.apple.com"
data-field-apple-pay-recurring-token-notification-
url="https://applepaydemo.apple.com"
data-field-apple-pay-recurring-label="Recurring"
data-field-apple-pay-recurring-amount="4.99"
```

```
data-field-apple-pay-recurring-payment-timing="recurring"
data-field-apple-pay-recurring-recurring-payment-start-date="2023-08-
11T11:20:32.369Z"
data-field-apple-pay-recurring-recurring-payment-interval-unit="month"
data-field-apple-pay-recurring-recurring-payment-interval-count="6"
data-field-apple-pay-recurring-recurring-payment-end-date="2024-08-
11T11:20:32.369Z"
></script>
```

Configuration Variables

Variable	**Format**	**Behavior**
data-tokenization-key	String	Authenticates the request
data-variant	String ("inline" or "lightbox")	Whether to use "inline" or "lightbox" integration **(required for inline integration)** **Default: "lightbox"**
data-payment-selector	String	Tells Collect.js what class or id value will trigger the form submission **Default: "#payButton"**
data-style-sniffer	String ("true" or "false")	Whether Collect.js should try to calculate the style of form fields in your current form and use that as a baseline style for the Collect.js fields ("true" to calculate style, "false" to start with unstyled text fields) **Default: "true"**
data-validation-callback	String	A JavaScript function which will be called each time a Collect.js field attempts to validate. It will recieve three paramaters: a string indicating which field was validated (ccnum or checkname, for example), a boolean for whether or not it validated successfully, and a string which may provide more detailed information about why the validation failed. For broadest compatibility, enclose the function in parentheses like in the example above
data-custom-css	JSON String	The CSS rules that will be applied to the fields by default. These override anything provided through the style-sniffer, if used. The rules should be packaged as a JSON-formatted object, containing a key-value pair for each property's name and value. Please see below for a list of the supported CSS properties
data-invalid-css	JSON String	The CSS rules that will be added to a field when it fails to validate. These override anything provided through the style-sniffer and the custom-css paramater, if used. The rules should be packaged as a JSON-formatted object, containing a key-value pair for each property's name and value. Please see below for a list of the supported CSS properties

Variable	Format	Behavior
data-placeholder-css	JSON String	The CSS rules that will be added to a field when it's displaying a placeholder. The rules should be packaged as a JSON-formatted object, containing a key-value pair for each property's name and value. Please see below for a list of the supported CSS properties
data-focus-css	JSON String	The CSS rules that will be added to a field when it has the keyboard focus. The rules should be packaged as a JSON-formatted object, containing a key-value pair for each property's name and value. Please see below for a list of the supported CSS properties
data-valid-css	JSON String	The CSS rules that will be added to a field when it successfully validates and saves. These override anything provided through the style-sniffer and the custom-css paramater, if used. The rules should be packaged as a JSON-formatted object, containing a key-value pair for each property's name and value. Please see below for a list of the supported CSS properties
data-google-font	String	Directs Collect.js to load font collections available through Google Fonts. This only makes the fonts available in the fields; you must still provide (either directly or through the style sniffer) styles that specify them. List the font name, followed by a colon and the specific weights or variants needed. **Example: "Open Sans:400,700i"**
data-timeout-duration	Integer	When form submission is triggered, Collect.js will wait only this long (in milliseconds) for payment data validation and recording to complete. If, by this time, Collect.js is still missing confirmation on vital fields, the `data-timeout-callback` function will be invoked **Default: "0" which disables the timeout**
data-timeout-callback	String	A JavaScript function which gets called if `data-timeout-duration` has passed since we tried to submit the form, but we still haven't confirmed that enough fields are stored with the token to make a viable payment. This allows for the site to retry submission, or ask the customer to try submission again, if an invalid entry or intermittent connection caused the data storage to fail. For broadest compatibility, enclose the function in parentheses like in the example above **Default: an internal function that displays a "Please submit the form again." alert**
data-apple-pay-recurring-mismatch-callback	String	A JavaScript function that executes when the detected iOS version is below 16 or the macOS version is below 13, as these are the minimum versions required for Apple Pay recurring payments to function correctly. **Default: an internal function that displays a "Please update your Apple Pay version." alert**

Variable	Format	Behavior
data-fields-available-callback	String	A JavaScript function which gets called once Collect.js has installed the fields onto your page. A typical use case is to wire up event handlers to the fields when they are enterred or left. For broadest compatibility, enclose the function in parentheses like in the example above
data-field-ccnumber-selector	String (CSS Selector)	A CSS selector for the Credit Card Number inline field **Default: "#ccnumber"**
data-field-ccnumber-title	String	A title for the Credit Card Number inline field
data-field-ccnumber-placeholder	String	Placeholder text for the Credit Card Number inline field
data-field-ccnumber-enable-card-brand-previews	String ("true" or "false")	Determines whether or not the field will display a graphic depicting the credit card brand inside the field **Default: "false"**
data-field-ccexp-selector	String (CSS Selector)	A CSS selector for the Credit Card Expiration Date inline field **Default: "#ccexp"**
data-field-ccexp-title	String	A title for the Credit Card Expiration Date inline field
data-field-ccexp-placeholder	String	Placeholder text for the Credit Card Expiration Date inline field
data-field-cvv-display	String ("show", "hide", or "required")	Whether the CVV field is required ("required"), optional ("show"), or not displayed at all ("hide"). If the CVV field is required, a space for it must be provided on the form. Also supported as `data-field-cvv` for legacy users **Default: "required"**
data-field-cvv-selector	String (CSS Selector)	A CSS selector for the CVV inline field **Default: "#cvv"**
data-field-cvv-title	String	A title for the CVV inline field
data-field-cvv-placeholder	String	Placeholder text for the CVV inline field
data-field-checkaccount-selector	String (CSS Selector)	A CSS selector for Checking Account Number inline field **Default: "#checkaccount"**
data-field-checkaccount-title	String	A title for the Checking Account Number inline field
data-field-checkaccount-placeholder	String	Placeholder text for the Checking Account Number inline field
data-field-checkaba-selector	String (CSS Selector)	A CSS selector for the Checking Routing Number inline field **Default: "#checkaba"**

Variable	Format	Behavior
data-field-checkaba-title	String	A title for the Checking Routing Number inline field
data-field-checkaba-placeholder	String	Placeholder text for the Checking Routing Number inline field
data-field-checkname-selector	String (CSS Selector)	A CSS selector for the Checking Account Name inline field **Default: "#checkname"**
data-field-checkname-title	String	A title for the Checking Account Name inline field
data-field-checkname-placeholder	String	Placeholder text for the Checking Account Name inline field
data-field-checktransit-selector	String (CSS Selector)	A CSS selector for the Check Transit inline field **Default: "#checktransit"**
data-field-checktransit-title	String	A title for the Check Transit inline field
data-field-checktransit-placeholder	String	Placeholder text for the Check Transit inline field
data-field-checkinstitution-selector	String (CSS Selector)	A CSS selector for the Check Institution inline field **Default: "#checkinstitution"**
data-field-checkinstitution-title	String	A title for the Check Institution inline field
data-field-checkinstitution-placeholder	String	Placeholder text for the Check Institution inline field
data-field-google-pay-selector	String	A CSS selector for the Google Pay field. **Default: "#googlepaybutton"**
data-field-google-pay-shipping-address-required	String ("true" or "false")	Determines whether or not Google Pay should capture shipping address information. Shipping information captured this way becomes stored in the payment token. **Default: "false"**
data-field-google-pay-shipping-address-parameters-phone-number-required	String ("true" or "false")	Determines whether or not Google Pay should capture a phone number from the user’s shipping phone number. Phone numbers captured this way become stored in the payment token. **Default: "false"**

Variable	Format	Behavior
data-field-google-pay-shipping-address-parameters-allowed-country-codes	String (comma delimited list of 2 character country codes)	List of allowed countries. Credit cards from outside these countries will not be displayed as acceptable options within the Google Pay payment sheet. Omitting this value allows credit cards from any country. **Default: undefined**
data-field-google-pay-billing-address-required	String ("true" or "false")	Determines whether or not Google Pay should capture billing address information. Billing information captured this way becomes stored in the payment token. **Default: "false"**
data-field-google-pay-billing-address-parameters-phone-number-required	String ("true" or "false")	Determines whether or not Google Pay should capture a phone number from the user’s billing phone number. Phone numbers captured this way become stored in the payment token. **Default: "false"**
data-field-google-pay-billing-address-parameters-format	String ("MIN" or "FULL")	Determines which billing address fields to capture from the user. "MIN" provides "zip", "country", "first_name" and "last_name". "FULL" additionally provides "address1", "address2", "city", "state". **Default: "MIN"**
data-field-google-pay-email-required	String ("true" or "false")	Determines whether or not Google Pay should capture an email address. Email addresses captured this way becomes stored in the payment token. **Default: "false"**
data-field-google-pay-button-type	String ("short", "long", "book", "buy", "checkout", "donate", "order", "pay", "plain", "subscribe", "short" or "long")	Determines the text that appears on the Google Pay button. **Default: "buy"**
data-field-google-pay-button-locale	String ("en", "ar", "bg", "ca", "cs", "da", "de", "el", "es", "et", "fi", "fr", "hr", "id", "it", "ja", "ko", "ms", "nl", "no", "pl", "pt", "ru", "sk", "sl", "sr", "sv", "th", "tr", "uk", "zh")	The language that the button text appears in. **Default: "en" (English)**
data-field-google-pay-button-color	String ("default", "black", "white")	The color to display the Google Pay button. "Default" allows Google to determine the color. **Default: "default"**

Variable	Format	Behavior
data-field-google-pay-total-price-status	String ("FINAL" or "ESTIMATED")	The status of the total price being used. "FINAL" should be used when the amount is not expected to change. "ESTIMATED" should be used when the amount might change based on upcoming factors such as sales tax based on billing address. **Default: "FINAL"**
data-field-apple-pay-selector	String (CSS Selector)	A CSS selector for the Apple Pay field. **Default: "#applepaybutton"**
data-field-apple-pay-shipping-type	String ("shipping", "delivery", "storePickup", or "servicePickup")	The way purchases will be sent to the customer. For transactions that do not need to be sent to a customer, omit data-field-apple-pay-required-shipping-contact-fields. **Default: "shipping"**
data-field-apple-pay-shipping-methods	String (JSON array of objects)	The shipping information that appears on the payment sheet. Example: '[{"label":"Free Standard Shipping","amount":"0.00","detail":"Arrives in 5-7 days","identifier":"standardShipping"}]' **Default: "[]"**
data-field-apple-pay-required-billing-contact-fields	String (JSON array of "name" or "postalAddress")	When "name" or "postalAddress" is provided, the payment sheet will collect a customer's name or address. These values will be included with the transaction's billing information. Example:'["name","postalAddress"]' **Default: "[]"**
data-field-apple-pay-required-shipping-contact-fields	String (JSON array of "name" or "postalAddress")	When "name" or "postalAddress" is provided, the payment sheet will collect a customer's name or address. These values will be included with the transaction's shipping information. Example:'["name","postalAddress"]' **Default: "[]"**
data-field-apple-pay-contact-fields	String (JSON array of "phone" or "email")	When "phone" or "email" is provided, the payment sheet will collect a customer's phone number or email address. Usage of this data is determined by the data-field-apple-pay-contact-fields-mapped-to value. Example: '["phone","email"]' **Default: "[]"**
data-field-apple-pay-contact-fields-mapped-to	String ("billing" or "shipping")	"billing" causes data collected via the data-field-apple-pay-contact-fields options to be included in a transactions "phone" and "email" values. "shipping" causes them to be included as "shipping_phone", "shipping_email". **Default: "billing"**
data-field-apple-pay-line-items	String (JSON array of objects)	Items that will appear in the Apple Pay payment sheet. Example: [{"label":"Foobar","amount":"3.00"}] **Default: "[]"**
data-field-apple-pay-total-label	String	Text that appears next to the final amount in the Apple Pay payment sheet. **Default: "Total"**

Variable	Format	Behavior
data-field-apple-pay-total-type	String ("pending" or "final")	A value that indicates whether the total is final or pending. When set to "pending" the customer will see "Amount Pending" on the ApplePay checkout form instead of a total amount. **Default: "final"**
data-field-apple-pay-type	String ("buy", "donate", "plain", "set-up", "book", "check-out", "subscribe", "add-money", "contribute", "order", "reload", "rent", "support", "tip", or "top-up")	The text that appears on an Apple Pay button. Some options are only supported by newer versions of iOS and macOS. **Default: "buy"**
data-field-apple-pay-style-button-style	String ("black", "white", or "white-outline")	The appearance of the Apple Pay button. **Default: "black"**
data-field-apple-pay-style-height	String	The height of the Apple Pay button. **Default: "30px"**
data-field-apple-pay-style-border-radius	String	The rounding of the corners on the Apple Pay button. **Default: "4px"**
data-field-apple-pay-is-recurring-transaction	String ("true" or "false")	Marks the Apple Pay transaction as a recurring transaction. **Default: "false"**
data-field-apple-pay-recurring-payment-description	String	A description of the recurring payment to display to the user in the payment sheet. Value of data-field-apple-pay-is-recurring-transaction must be true in order to use. Required for recurring. **Example:** "Monthly subscription for premium features." **Default:** ""
data-field-apple-pay-recurring-billing-agreement	String	A localized billing agreement displayed to the user prior to payment authorization. Value of data-field-apple-pay-is-recurring-transaction must be true in order to use. Optional. **Example:** "By subscribing, you agree to the terms and conditions." **Default:** ""
data-field-apple-pay-recurring-label	String	The label for the recurring payment. Example: "Recurring". Value of **data-field-apple-pay-is-recurring-transaction** must be **true** in order to use.
data-field-apple-pay-recurring-amount	String (Decimal)	The amount to be charged for the recurring payment. Example: "4.99". Value of **data-field-apple-pay-is-recurring-transaction** must be **true** in order to use.
data-field-apple-pay-recurring-payment-timing	String	The timing of the recurring payment. Example: "recurring". Value of **data-field-apple-pay-is-recurring-transaction** must be **true** in order to use.

Variable	Format	Behavior
data-field-apple-pay-recurring-payment-start-date	String (ISO 8601 Datetime)	The start date of the recurring payment. Example: "2023-08-11T11:20:32.369Z". Value of **data-field-apple-pay-is-recurring-transaction** must be **true** in order to use.
data-field-apple-pay-recurring-payment-interval-unit	String	The unit of time for the recurring payment interval. Possible values: "day", "week", "month", "year". Example: "month". Value of **data-field-apple-pay-is-recurring-transaction** must be **true** in order to use.
data-field-apple-pay-recurring-payment-interval-count	Integer	The number of units per payment interval. Example: 6. Value of **data-field-apple-pay-is-recurring-transaction** must be **true** in order to use.
data-field-apple-pay-recurring-payment-end-date	String (ISO 8601 Datetime)	The end date of the recurring payment. Example: "2024-08-11T11:20:32.369Z". If this field is omitted, the recurring transaction will continue until canceled.
data-field-apple-pay-recurring-management-url	String	A URL to the merchant's management portal where users can manage their subscriptions. Value of data-field-apple-pay-is-recurring-transaction must be true in order to use this field. Required for recurring. **Example:** "https://example.com/manage-tokens" **Default:** ""
data-field-apple-pay-recurring-token-notification-url	String	A URL where tokenization events (e.g., token refresh, expiration) are sent. Value of data-field-apple-pay-is-recurring-transaction must be true in order to use this field. Optional. **Example:** "https://example.com/token-notify" **Default:** ""
data-field-apple-pay-vault-up-front-price	String (Decimal)	If set, the Apple Pay request will switch from a "recurring" format to an "automatic reload" format with this amount charged up front. The recurring amount, label, description, billing agreement, management URL, and token notification URLs are still required for this request. After Collect.js completes, the vault or subscription request made to the Payment API should contain this value in an "amount" field and a "type" of "sale" or "auth" to trigger the requested up-front transaction. **Example:** "6.00" **Default:** ""

Variable	Format	Behavior
data-field-apple-pay-recurring-up-front-price	String (Decimal)	If set, the Apple Pay recurring request will charge this amount immediately, rather than using a $0 authorization to validate the information when the subscription is saved. After Collect.js completes, the subscription request made to the Payment API should contain the same value in an "amount" field and a "type" of "sale" or "auth" to trigger the requested up-front transaction. **Example:** "6.00" **Default:** ""
data-price	String	The final cost that the user will be charged. **Default: undefined** **Required if using Apple Pay**
data-country	String	The country where the transaction is processed. **Required if using Google Pay or Apple Pay**
data-currency	String	The currency the transaction will use to process the transaction. **Required if using Google Pay or Apple Pay**

Collect.js Functions

Function Name	Parameters	Description
configure	Object	Call this when you’d like to reconfigure Collect.js. Collect.js will try to run this automatically on page load, but you can run it manually to change the configuration at any time. This will draw or re-draw all iframes onto the page. This method optionally accepts an object with all configuration variables you’re using for Collect.js.
startPaymentRequest	Event	Call this when you want to save the data in the iframes and get the token value in the callback. This method accepts an event object as an optional parameter. It will call the provided callback function with a token response and the optional event.
clearInputs		Call this when you want to clear whatever the user has entered into any input provided by Collect.js.

JavaScript Based Activation

You may also choose to configure Collect.js directly in your JavaScript, For this, you will typically only include the `data-tokenization-key` parameter in the script tag, and deploy the other options with a `CollectJS.configure()` call. See the Advanced Inline JavaScript Example for a demonstration with the main available options.

The `CollectJS.configure` function also lets you specify a `callback` function that will execute when the customer submits the payment form and payment info has been successfully stored. The callback takes the place of the default "add the payment token and submit the form" behavior and gets passed a "response" variable with the Payment Token. It is your responsibility to ensure this is posted to your server.

```
{
tokenType: "inline",
token:"3455zJms-7qA2K2-VdVrSu-Rv7WpvPuG7s8",
initiatedBy: Event,
card:{
number: "411111******1111",
bin: "411111",
exp: "1028",
hash: "abcdefghijklmnopqrstuv1234567890",
type: "visa"
},
check:{
name:null,
account:null,
hash:null,
aba:null,
transit:null,
institution:null
},
wallet: {
cardDetails: null,
cardNetwork: null,
email: null,
billingInfo: {
address1: null,
address2: null,
firstName: null,
lastName: null,
postalCode: null,
city: null,
state: null,
country: null,
phone: null

},
shippingInfo: {
address1: null,
address2: null,
firstName: null,
lastName: null,
postalCode: null,
city: null,
state: null,
country: null,
phone: null
}

}
}
```

Styling Limitations

For security and compatibility reasons, the styling system- whether provided via `custom-css`, `invalid-css`, `valid-css`, `focus-css` or calculated using the style-sniffer, only supports the following CSS properties:

- background-color
- border-bottom-color
- border-bottom-left-radius
- border-bottom-right-radius
- border-bottom-style
- border-bottom-width
- border-left-color
- border-left-style
- border-left-width
- border-right-color
- border-right-style
- border-right-width
- border-top-color
- border-top-left-radius
- border-top-right-radius
- border-top-style
- border-top-width
- border-width
- border-style
- border-radius
- border-color
- bottom
- box-shadow
- color
- cursor
- direction
- font-family
- font-kerning
- font-size
- font-stretch
- font-style
- font-variant-caps
- font-variant-numeric
- font-weight
- height
- letter-spacing
- line-height
- margin-top
- margin-bottom
- opacity
- outline-color
- outline-offset
- outline-style
- outline-width
- padding
- padding-bottom

- padding-left
- padding-right
- padding-top
- pointer-events
- text-align
- text-align-last
- text-decoration
- text-decoration-line
- text-decoration-style
- text-decoration-color
- text-decoration-skip-ink
- text-underline-position
- text-indent
- text-rendering
- text-shadow
- text-size-adjust
- text-overflow
- text-transform
- transition
- vertical-align
- white-space
- will-change
- word-break
- word-spacing
- hyphens

Placeholder CSS can only use the following attributes

- background-color
- font-family
- font-kerning
- font-size
- font-stretch
- font-style
- font-variant-caps
- font-variant-numeric
- font-weight
- word-spacing
- letter-spacing
- line-height
- text-decoration
- text-indent
- text-transform
- transition
- vertical-align
- opacity
- color

Any other CSS properties will be ignored.

Expert Inline Implementation

Understanding the lifecycle of a Collect.js-enabled form

Each field that Collect.js supplies communicates with your Gateway independently. These fields will check the payment information, and if valid, direct the Gateway to save it, as soon as the customer exits a field. This process triggers the validation callbacks you can use to monitor the user's progress and control their interactions with your form.

When the submit button is pressed (or `CollectJS.startPaymentRequest` is manually called), Collect.js directs each field to validate and save one last time. Once it gets back a notice of successful validation and saving from enough fields to make a viable payment request, it proceeds to submit the form or call an alternative `callback` as configured.

Once the Payment Token is used in a Payment API request, it's automatically destroyed. This prevents its reuse for a later unauthorized charge, but means that if you have to collect the payment information again (for example, after a declined transaction), you're going to have to start fresh and generate a new token.

Manually Triggering Payment Information Saving

You can take control of when the final validate-and-save process is triggered. Rather than binding it explicitly to a payment button, you can call the following JavaScript function when ready.

```
CollectJS.startPaymentRequest(event)
```

When triggered, this causes the same behavior as pressing a payment button does by default: all the fields are told to validate and save. Once we confirm all data is stored, the callback you configured is executed.

This function optionally receives an event object. If an event is passed into the startPaymentRequest function, that same event will exist in the callback's response variable under "response.initiatedBy". This can be used to track what event started the recording request and the next steps.

```
{
tokenType: "inline",
token:"3455zJms-7qA2K2-VdVrSu-Rv7WpvPuG7s8",
initiatedBy: Event,
card:{
number: "411111******1111",
bin: "411111",
exp: "1028",
hash: "abcdefghijklmnopqrstuv1234567890",
type: "visa"
},
check:{
name:null,
account:null,
hash:null,
aba:null,
transit:null,
institution:null
},
wallet: {
cardDetails: null,
cardNetwork: null,
email: null,
billingInfo: {
address1: null,
address2: null,
firstName: null,
lastName: null,
postalCode: null,
city: null,
state: null,
country: null,
phone: null

},
shippingInfo: {
address1: null,
address2: null,
firstName: null,
lastName: null,
postalCode: null,
city: null,
state: null,
country: null,
phone: null
}

}
}
```

Note that this implementation also requires you to include the standard script tag on the page as well.

Integration with form validation

While Collect.js doesn't let you directly access the contents of the payment information fields, it does provide several ways to check if they contain *valid* content. There are two distinct ways you can access this information in your form validation code:

1. Supply a "validation-callback"

This will listen for all Collect.js validation changes. This function will get a notice about each field change, and you can keep a tally during the form's life.

```
<script
src="https://secure.magicpaygateway.com/token/Collect.js"
```

```
data-tokenization-key="your-token-key-here"
data-validation-callback="(
function(fieldName, valid, message) {
if (valid) {
... store the fact that fieldName is valid ...
} else {
... remove fieldName from the valid list, maybe display message to the user ...
}
}
)">
```

2. Check CSS classes.

When you start the validation process, you can see if the elements you loaded Collect.js fields into have either `CollectJSValid` or `CollectJSInvalid` elements within them. Note that blank fields, or some fields in the process or being edited or saved, will have neither set. You can decide how to handle these depending on when you're performing the check, what field is blank or unsaved, and how that fits into your site's flow.

```
validCardNumber = document.querySelector("#ccnumber .CollectJSValid") !== null;
validExpiration = document.querySelector("#ccexp .CollectJSValid") !== null;
validCvv = document.querySelector("#cvv .CollectJSValid") !== null;
invalidCvv = document.querySelector("#cvv .CollectJSInvalid") !== null;
blankOrUnsavedCvv = !validCvv && !invalidCvv;
```

Blur and Focus Events

Some styling techniques will change the classes of related elements as a user enters and leaves a form field. Google's [Material Design Components for the Web] is a typical example-- the label moves above the text, and an underline that's not part of the field changes color. Collect.js exposes `focus` and `blur` events that can be used to trigger these types of effects with Collect.js fields.

Here's a tangible example. The `data-fields-available-callback` code adds a listener to each Collect.js field's `blur` and `focus` events. This listener adds or removes the `active` class from the nearest label. When a user enters the field, the label next to it changes from gray to bold and blue, reverting once they leave the field.

```
<script
src="https://secure.magicpaygateway.com/token/Collect.js"
data-tokenization-key="your-token-key-here"
data-variant="inline"
data-fields-available-callback='
(function() {
var frames = document.querySelectorAll(".input-field
iframe.CollectJSInlineIframe")
for (var i = 0; i frames.length; i++) {
frames[i].addEventListener("focus", function (event) {
var panel = event.target.parentNode.parentNode;
panel.querySelector("label").classList.add("active");
});
frames[i].addEventListener("blur", function (event) {
var panel = event.target.parentNode.parentNode;
if(event.detail && event.detail.empty) {
panel.querySelector("label").classList.remove("active");
}
});
}
});'
></script>

<style>
label {
color: gray;
}
label.active {
color: blue;
font-weight: bold;
}
</style>

<div class="input-field">
<label for="ccnumber">Card Number</label>
<div id="ccnumber"></div>
</div>
<div class="input-field">
<label for="ccexp">Expiration Date</label>
<div id="ccexp"></div>
</div>
<div class="input-field">
<label for="cvv">CVV</label>
<div id="cvv"></div>
</div>
```

When the `blur` event is fired, it will include a `detail` structure with one element: `empty`. This tells you if the field is blank, so you can style it differently, without disclosing its contents.

Google Pay

Image not found or type unknown

Google Pay allows customers to provide credit card data saved in their Google accounts to be used in online payments. Collect.js supports Google Pay in both lightbox and inline integrations allowing you to capture these credit card details in either flow. And to make the integration as seamless as possible, the Google Pay data will be returned to you in the "payment_token" variable, so no matter what payment method your customers make, your transaction request can be exactly the same. Google Pay data can be used for single transactions, stored to the Customer Vault, or used to initiate a recurring payment.

To use Google Pay, you must provide Collect.js country and currency values. These values are used to ensure the user can only select a valid card. You must also provide an HTML element on your page that Collect.js can use to draw the Google Pay button.

Google Pay is currently supported on TSYS - EMV and Elavon viaConex.

```
<html>
<head>
<script
src="https://secure.magicpaygateway.com/token/Collect.js"
data-tokenization-key="000000-000000-000000-000000"
data-variant="inline"
data-country="US"
data-price="1.00"
data-currency="USD"
></script>
</head>
<body>
<form action="submit_to_direct_post_api.php" method="post">
<div id="googlepaybutton"></div>
</form>
</body>
</html>
```

This will create a Google Pay button that will be inserted in the div as an iframe. The Google Pay button will be 240x70px, so make sure to leave room in this div for the button to display in full. When a user clicks the button, they are presented with a payment sheet requesting the user’s payment details. After the user submits the payment sheet, Collect.js executes the callback function if one were provided, or submits your form with the payment token attached.

Capture Billing and Shipping Data

Collect.js also allows you to capture the user’s shipping and billing details with Google Pay, just like the credit card data. This eliminates the need for you to capture this manually in your own web form. When these options are enabled, Google Pay will also request the user’s information and Collect.js will store all that data in the payment token.

In addition to the payment data that gets stored for all Google Pay transactions, the payment token will include the following shipping fields when shipping address required is enabled:

- shipping_address_1
- shipping_address_2
- shipping_zip
- shipping_city
- shipping_state
- shipping_country
- shipping_firstname
- shipping_lastname
- phone (also requires phone_number_required to be enabled)

When billing_address_required is enabled, Collect.js will also capture these fields:

- address1 (also requires format to be "FULL")
- address2 (also requires format to be "FULL")
- zip
- city (also requires format to be "FULL")
- state (also requires format to be "FULL")
- country
- firstname
- lastname
- phone (also requires phone_number_required to be enabled)

```
<html>
<head>
<script
src="https://secure.magicpaygateway.com/token/Collect.js"
data-tokenization-key="000000-000000-000000-000000"
data-variant="inline"
data-field-google-pay-selector=".google-pay-button"
data-field-google-pay-shipping-address-required="true"
data-field-google-pay-shipping-address-parameters-phone-number-required="true"
data-field-google-pay-shipping-address-parameters-allowed-country-codes="US,CA"
data-field-google-pay-billing-address-required="true"
data-field-google-pay-billing-address-parameters-phone-number-required="true"
data-field-google-pay-billing-address-parameters-format="MIN"
></script>
</head>
<body>
<form action="submit_to_direct_post_api.php" method="post">
<div class="google-pay-button"></div>
</form>
</body>
</html>
```

```
{
tokenType: "googlePay",
token: "3455zJms-7qA2K2-VdVrSu-Rv7WpvPuG7s8",
initiatedBy: Event,
card:{
```

```
number: null,
bin: null,
exp: null,
hash: null,
type: "visa"
},
check:{
name:null,
account:null,
hash:null,
aba:null,
check:null,
institution:null
},
wallet: {
cardDetails: "1234",
cardNetwork: "visa",
email: "email@example.com",
billingInfo: {
address1: "123 Happy Ln",
address2: "APT 1",
firstName: "Jane",
lastName: "Doe",
postalCode: "12345",
city: "Cooltown",
state: "AZ",
country: "US",
phone: "1234567890"

},
shippingInfo: {
address1: "123 Happy Ln",
address2: "APT 1",
firstName: "Jane",
lastName: "Doe",
postalCode: "12345",
city: "Cooltown",
state: "AZ",
country: "US",
phone: "1234567890"
}

}
}
```

Apple Pay

Image not found or type unknown

Apple Pay allows merchants to accept payments from their customers with little friction and high conversion rates. For most customers using Apple devices, it’s the preferred payment method when shopping online.

Using Collect.js, merchants can add Apple Pay into their websites with ease. Whether using the Lightbox or Inline integration methods, Apple Pay can be added in no time at all. And to make the integration as seamless as possible, the Apple Pay data will be returned to you in the "payment_token" variable, so no matter what payment method your customers make, your transaction request can be exactly the same. Apple Pay data can be used for single transactions, stored to the Customer Vault, or used to initiate a recurring payment.

Apple Pay supports Global Payments East - EMV, Test CC Processor, First Data Nashville, Chase Paymentech Salem, Chase Paymentech Tampa, EPX, Vantiv Now Worldpay eCommerce - Host Capture (Litle & Co), Global Payments Canada, First Data Nashville North, Vantiv Now Worldpay Core - Terminal Capture, Paymentech Salem Dev, Vantiv Now Worldpay eCommerce - Terminal Capture (Litle & Co.), First Data Nashville North V2, FACe - Vantiv Pre-Live, FACe - Vantiv, First Data Compass, TSYS - EMV, Credomatic Web Service, Credomatic Web Service Dev, First Data Rapid Connect Nashville North - EMV, First Data Rapid Connect Cardnet North - EMV, First Data Rapid Connect Nashville - EMV, FACe - Vantiv (Next Day Funding), Elavon viaConex, First Data Rapid Connect Omaha - EMV, Elavon EISOP UK/EU - EMV, American Express Direct UK/EU - EMV, Credorax ePower EU - EMV, Worldpay APACS UK/EU - EMV, First Data APACS UK/EU - EMV, Lloyds Cardnet APACS UK/EU - EMV, Barclaycard HISO UK/EU - EMV, AIBMS APACS UK/EU - EMV, Global Payments APACS UK/EU - EMV, Checkout.com Unified Payments, NMI Payments and FACe - Worldpay Core processors configured for e-commerce.

To use Apple Pay, you must provide Collect.js price, country, and currency values. These values are used to ensure the user can only select a valid card. You must also provide an HTML element on your page that Collect.js can use to draw the Apple Pay button.

```
<html>
<head>
<script
src="https://secure.magicpaygateway.com/token/Collect.js"
data-tokenization-key="000000-000000-000000-000000"
data-variant="inline"
data-country="US"
data-price="1.00"
data-currency="USD"
></script>
</head>
<body>
<form action="submit_to_direct_post_api.php" method="post">
<div id="applepaybutton"></div>
</form>
</body>
</html>
```

This will create an Apple Pay button that will be inserted in the div. When a user clicks the button, they are presented with a payment sheet requesting the user’s payment details. After the user submits the payment sheet, Collect.js executes the callback function if one were provided, or submits your form with the payment token attached.

Uploading the Domain Verification File

Apple requires merchants to upload the gateway’s Domain Verification File to your server to use Apple Pay. You can download the file and add your website to the “Allowed Domains” on your account from the merchant control panel’s Apple Pay settings page. In short, you need to:

1. Download the verification file
2. Upload the verification file to the .well-known directory on your web server
3. Add your domain to the list of domains allowed to use Apple Pay

Once these steps are complete, Apple Pay will be able to work with Collect.js.

Capture Billing and Shipping Data

Collect.js also allows you to capture the user’s shipping and billing details with Apple Pay, just like the credit card data. This eliminates the need for you to capture this manually in your own web form. When these options are enabled, Apple Pay will also request the user’s information and Collect.js will store all that data in the payment token.

Please note that Apple Pay tokens are one-time use tokens and should not be saved to the Customer Vault. They will not be able to be charged again. We currently suggest not using Apple Pay in checkout flows where you are also saving customers to the Vault.

When data-field-apple-pay-required-billing-contact-fields includes "postalAddress", the following data is included in the payment token:

- address1
- address2
- state
- country
- city
- zip

When data-field-apple-pay-required-billing-contact-fields includes "name", the following data is included in the payment token:

- first_name
- last_name

When data-field-apple-pay-required-shipping-contact-fields includes "postalAddress", the following data is included in the payment token:

- shipping_address_1
- shipping_address_2
- shipping_state
- shipping_country
- shipping_city

- shipping_zip

When data-field-apple-pay-required-shipping-contact-fields includes "postalAddress", the following data is included in the payment token:

- shipping_firstname
- shipping_lastname

When data-field-apple-pay-contact-fields includes "phone" and data-field-apple-pay-contact-fields-mapped-to is "billing", the following data is included in the payment token:

- phone

When data-field-apple-pay-contact-fields includes "phone" and data-field-apple-pay-contact-fields-mapped-to is "shipping", the following data is included in the payment token:

- shipping_phone

When data-field-apple-pay-contact-fields includes "email" and data-field-apple-pay-contact-fields-mapped-to is "billing", the following data is included in the payment token:

- email

When data-field-apple-pay-contact-fields includes "email" and data-field-apple-pay-contact-fields-mapped-to is "shipping", the following data is included in the payment token:

- shipping_email

Below is an example of an Apple Pay integration in Collect.js with all available configuration options:

```
<html>
<head>
<script
src="https://secure.magicpaygateway.com/token/Collect.js"
data-tokenization-key='000000-000000-000000-000000'
data-variant='inline'
data-field-apple-pay-selector='.apple-pay-button'
data-field-apple-pay-shipping-type='delivery'
data-field-apple-pay-shipping-methods='[{"label":"Free Standard
Shipping","amount":"0.00","detail":"Arrives in 5-7
days","identifier":"standardShipping"},{"label":"Express
Shipping","amount":"10.00","detail":"Arrives in 2-3
days","identifier":"expressShipping"}]'
data-field-apple-pay-required-billing-contact-fields='["postalAddress","name"]'
data-field-apple-pay-required-shipping-contact-fields='["postalAddress","name"]'
data-field-apple-pay-contact-fields='["phone","email"]'
data-field-apple-pay-contact-fields-mapped-to='shipping'
data-field-apple-pay-line-
items='[{"label":"Foobar","amount":"3.00"},{"label":"Arbitrary Line Item
#2","amount":"1.00"}]'
data-field-apple-pay-total-label='Total'
data-field-apple-pay-type='buy'
data-field-apple-pay-style-button-style='white-outline'
data-field-apple-pay-style-height='30px'
data-field-apple-pay-style-border-radius='4px'
```

```
data-field-apple-pay-is-recurring-transaction="true"
data-field-apple-pay-recurring-payment-description="A description of the recurring
payment to display to the user in the payment sheet."
data-field-apple-pay-recurring-billing-agreement="A localized billing agreement
displayed to the user in the payment sheet prior to the payment authorization."
data-field-apple-pay-recurring-management-url="https://applepaydemo.apple.com"
data-field-apple-pay-recurring-token-notification-
url="https://applepaydemo.apple.com"
data-field-apple-pay-recurring-label="Recurring"
data-field-apple-pay-recurring-amount="4.99"
data-field-apple-pay-recurring-payment-timing="recurring"
data-field-apple-pay-recurring-recurring-payment-start-date="2023-08-
11T11:20:32.369Z"
data-field-apple-pay-recurring-recurring-payment-interval-unit="month"
data-field-apple-pay-recurring-recurring-payment-interval-count="6"
data-field-apple-pay-recurring-recurring-payment-end-date="2024-08-
11T11:20:32.369Z"
></script>
</head>
<body>
<form action="submit_to_direct_post_api.php" method="post">
<div class="apple-pay-button"></div>
</form>
</body>
</html>
```

```
{
tokenType: "applePay",
token: "3455zJms-7qA2K2-VdVrSu-Rv7WpvPuG7s8",
initiatedBy: Event,
card:{
number: null,
bin: null,
exp: null,
hash: null,
type: "visa"
},
check:{
name:null,
account:null,
hash:null,
aba:null,
check:null,
institution:null
},
wallet: {
cardDetails: "1234",
cardNetwork: "visa",
email: "email@example.com",
billingInfo: {
address1: "123 Happy Ln",
address2: "APT 1",
firstName: "Jane",
lastName: "Doe",
postalCode: "12345",
city: "Cooltown",
state: "AZ",
country: "US",
phone: "1234567890"

},
shippingInfo: {
address1: "123 Happy Ln",
address2: "APT 1",
firstName: "Jane",
lastName: "Doe",
postalCode: "12345",
city: "Cooltown",
state: "AZ",
country: "US",
phone: "1234567890"
}

}
}
```

Note: Collect.JS defaults to building recurring Apple Pay payments with a $0 up-front amount. This enables use of a $0 authorization to validate and set up the payment info during the subscription registration process, while deferring the first real payment to the given start date.