

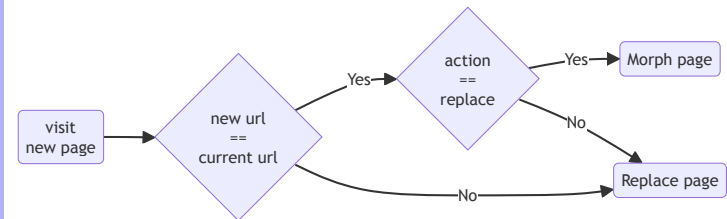
Turbo 8 Cheatsheet

Based on <https://turbo.hotwired.dev/>

Drive

javascript: Turbo._	effect
visit(location)	Navigate to a new page
visit(location, { action: action })	Change action to replace or advance
visit(location, { frame: frame })	Navigate a frame instead of full page
cache.clear()	Clear cache

Morph Or Replace



Configuration

javascript: Turbo._	effect
config.drive.progressBarDelay = delayInMilliseconds	How long (in ms) until progress bar is shown
config.forms.confirm = confirmMethod	Set method called by links with data-turbo-confirm
session.drive = false	Disable Turbo (opt in via data-turbo="true")
session.history.stop()	Disable history cache
setFormMode("optin")	Opt into Turbo form submissions with data-turbo="true"

Meta Tags

<meta ...>	Explanation
name="turbo-cache-control"	opt out of caching
name="turbo-visit-control" content="reload"	trigger full page reload when Turbo loads the page. Includes <turbo-frame> loads
name="turbo-root"	scope Turbo Drive to a root location different from body
name="view-transition" content="same-origin"	trigger a view transition
name="turbo-refresh-method" content="morph"	configure page refreshes to use morphing
name="turbo-refresh-scroll" content="preserve"	preservae scroll position during page refreshes

All meta tags can be used per page and take effect on that page.

Frames

```
<turbo-frame id="frame_id">
  Frame content, any html.
</turbo-frame>
```

Add attributes to **<turbo-frame>** to customize its behaviour:

Attribute	Meaning
src="/path"	load content from url
loading="lazy"	lazy load the frame (requires src)
target="other_frame"	frame actions target other frame
target="_top"	frame actions target whole page
refresh="morph"	frame is refreshed by morphing when whole page is refreshed
data-turbo-action="advance"	frame navigation updates page url
autoscroll	autoscroll the frame into view after loading
data-autoscroll-block="end start center nearest"	which part of frame to scroll to
data-autoscroll-behavior="auto instant smooth"	how the scroll should happen

Stream Actions

For all actions, tag format is:

```
<turbo-stream action="action_name" target="dom_id">
  <template>
    Content for the action.
  </template>
</turbo-stream>
```

Use **targets="css query"** to target multiple elements.

Action name	Description
append	append content to target
prepend	prepend content to target
replace	replace target with content
update	update target's content
remove	remove target from dom
before	insert before target
after	insert after target
refresh	refresh whole page (no target attribute)

replace and **update** take optional **method="morph"** attribute to use morphing instead of replace.

Data Attributes

attribute	effect
data-turbo="false"	disable Turbo Drive on links and forms including descendants
data-turbo-track="reload"	tracks the element's HTML and performs a full page reload when it changes
data-turbo-track="dynamic"	tracks the element's HTML and removes it when it is absent from next page
data-turbo-frame	identifies the Turbo Frame to navigate
data-turbo-preload	signals to Drive to pre-fetch the next page's content
data-turbo-action	customizes the Visit action. (values: replace , advance)
data-turbo-permanent	persist the element between page loads; requires unique ID attribute
data-turbo-temporary	removes the element before the document is cached
data-turbo-eval="false"	prevents inline script elements from being re-evaluated on Visits
data-turbo-method	changes the link request type from the default GET
data-turbo-stream	specifies that a link or form can accept a Turbo Streams response
data-turbo-confirm	presents a confirm dialog (use it on form or links)
data-turbo-submits-with	specifies text to display (on input or button) when submitting a form
data-turbo-prefetch="false"	disables link prefetching on hover

Automatically Added Attributes

Attribute	Explanation
disabled	added to the form submitter (button) during form submission
data-turbo-preview	added to the html element when displayed as preview
data-turbo-visit-direction	added to the html element during a visit. Values: forward , back , none
aria-busy	added to html and turbo-frame elements during navigation

Custom Stream Actions

```
import { StreamActions } from "@hotwired/turbo"
```

```
StreamActions.log = function () {
  console.log(this.getAttribute("message"))
}
```

Listen To Stream Broadcasts

```
<turbo-stream-source src="/turbo/messages">
</turbo-stream-source>
```

Turbo 8 Cheatsheet - events

Events

Event (turbo:...)	Fires ...
Document	
click	when you click a Turbo-enabled link
before-visit	before visiting a location, except when navigating by history
visit	immediately after a visit starts
before-cache	before Turbo saves the current page to cache
before-render	before rendering the page
render	after Turbo renders the page
load	once after the initial page load, and again after every Turbo visit
Page refreshes	
morph	after Turbo morphs the page
before-morph-element	before Turbo morphs an element
before-morph-attribute	before Turbo morphs an element's attributes
morph-element	after Turbo morphs an element
Forms	
submit-start	during a form submission
submit-end	after the form submission-initiated network request completes
Frames	
before-frame-render	before rendering the <code><turbo-frame></code> element
frame-render	right after a <code><turbo-frame></code> element renders its view
frame-load	when a element is navigated and finishes loading (fires after <code>turbo:frame-render</code>)
frame-missing	when the response to a <code><turbo-frame></code> element request does not contain a matching <code><turbo-frame></code> element
Streams	
before-stream-render	before rendering a Turbo Stream page update
HTTP Requests	
before-fetch-request	before Turbo issues a network request (to fetch a page, submit a form, preload a link, etc.)
before-fetch-response	after the network request completes
before-prefetch	before Turbo prefetches a link
fetch-request-error	when a form or frame fetch request fails due to network errors

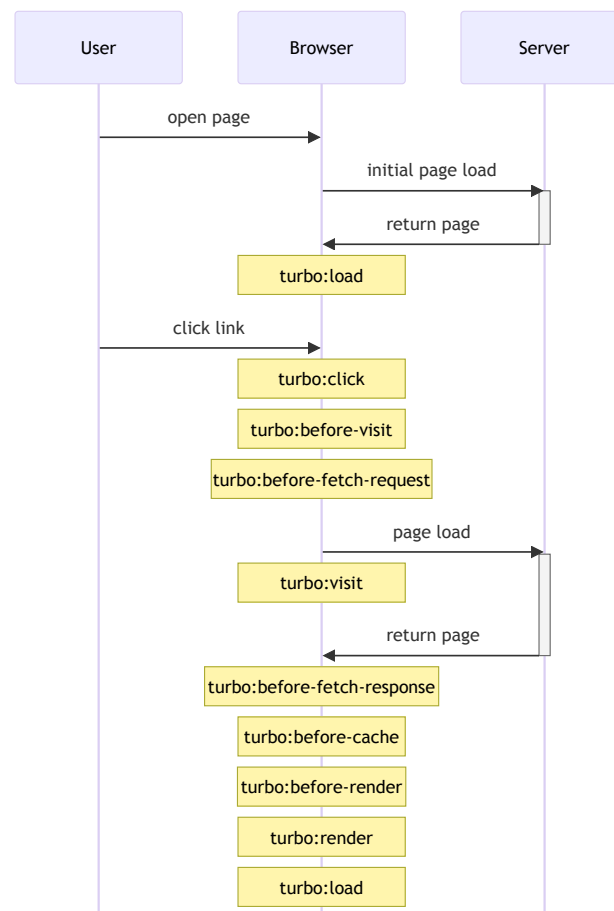
Access event details with `event.detail` with plain JS or `$event.originalEvent.detail` with jQuery.

All events **except** the following have details: `before-cache`, `frame-load`, `before-prefetch`. Consult official documentation at <https://turbo.hotwired.dev/reference/events> for details.

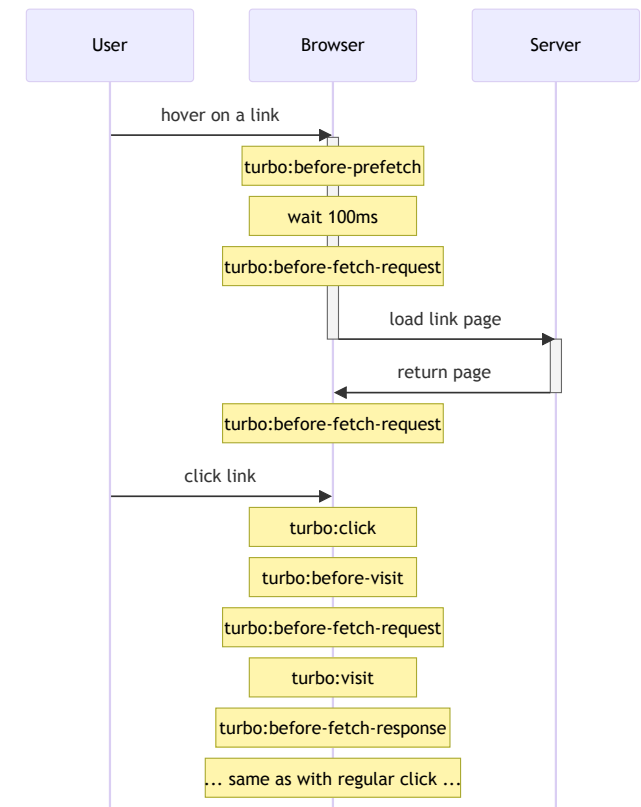
Preventable Events

Calling preventDefault	has this effect
click	browser performs normal navigation
before-visit	prevents navigation
before-render	prevents default and allows custom rendering
before-frame-render	prevents default and allows custom rendering
before-morph-element	skips morphing of that element
before-morph-attribute	skips morphing of that attribute
frame-missing	stops default and allows custom handling
before-fetch-request	stop the request; can be continued manually
before-prefetch	prevent prefetching
fetch-request-error	prevents default error handling

Events Flow For Loading Page And Clicking Link



Events Flow For Prefetching Links



Events Flow For Clicking A Frame Link

