

# Creating Reliable Web Journeys





#### **Yurii Nesteruk**

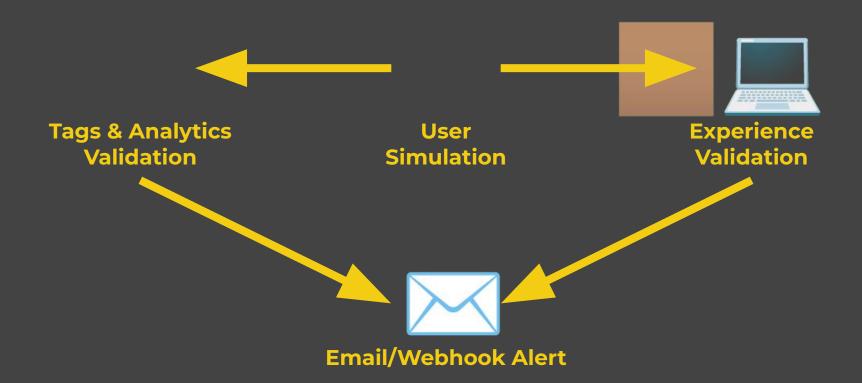
Principal Engineer ObservePoint



## **Agenda**

- Why Web Journeys (4 minutes)
- Anatomy of a Failure (4 minutes)
- 10 Lessons from an Operator (20 minutes)







#### **Use-cases**

- Continuously monitor the availability of eCommerce application.
- Ensure a loan application submits the correct data.
- Confirm tags collect funnel data during a checkout flow.
- ... and infinite more.





**True Failure** 

Website is wrong

**False Failure** 

Journey is wrong



# 10 Lessons from Running Millions of Web Journeys Annually



DON'T. Create rules that test multiple tags.





EDIT RULE - PROD :: UNIVERSAL STANDARD	×
Select Tag* Adobe Analytics  Variable*  Page equals    Selector*  Value*  Value   Value   Value   Value   Value   Validation description	⊗ ⊗
→ Add Account OR → Add Variable	
Select Tag* Google reCAPTCHA    → Add Account OR  → Add Variable	
Select Tag*  Data Layer  ▼	
Variable*   Operator*   Selector*   Value *   String   Value *   Value *	
→ Add Account OR → Add Variable	
Select Tag*  Optimizely Setup  ▼	
Variable* group  Operator* equals  ▼ String  Value* control  Validation description	
→ Add Account OR → Add Variable	
Select Tag Google Adsense  ▼	
Account Operator value pub-88402 Validation description   Add Variable	
CANCEL © GENERAL SA	AVE RULE

**DON'T.** Create rules that test multiple tag.

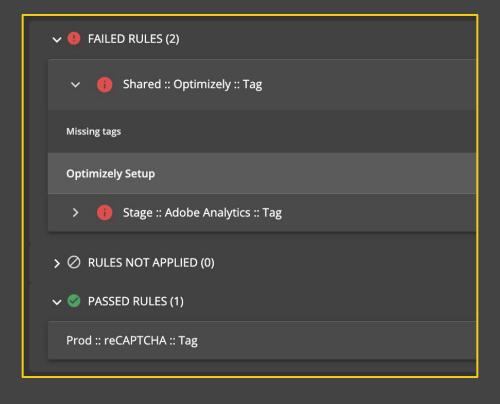
Create rules that test a single tag.





Tag & Variable Rules ⑦			
<b>Q</b> Search By Name <u>∓</u> Filters <b>∨</b>			
NAME	ТҮРЕ	LABELS	
Prod :: Adobe Analytics :: Checkout	Custom	event X +	
Prod :: Adobe Analytics :: Purchase	Custom	event × +	
Prod :: Adobe Analytics :: Register	Custom	event X +	
Prod :: Adobe Analytics :: Tag	Custom	tag X +	
Prod :: Adobe Analytics :: Upsell	Custom	event × +	
Prod :: reCAPTCHA :: Tag	Custom	tag X +	
Shared :: Data Layer :: Account	Custom	event X +	
Shared :: Data Layer :: Page View	Custom	event × +	
Shared :: Optimizely :: Tag	Custom	tag X +	
Stage :: Adobe Analytics :: Tag	Custom	tag X +	





DON'T. Create long journeys that test entire workflows.

Bias toward short journeys that test a single point of interest.

Unless. The workflow is context dependent (and you cannot inject data to the session).



DON'T. Navigate with click actions.



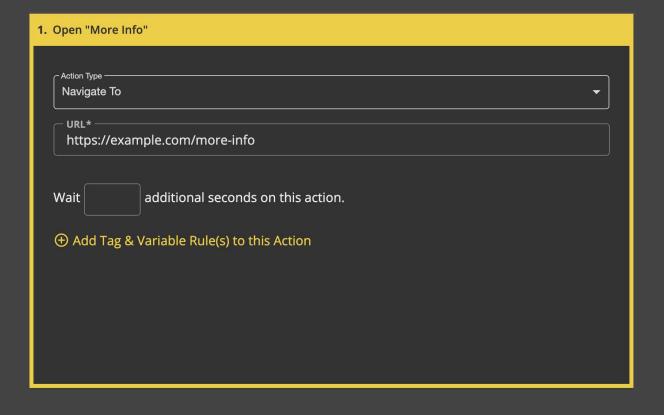


1. Open website	
Action Type  Navigate To  URL*  https://exam	nple.com
Wait ⊕ Add Tag & \	additional seconds on this action.  Variable Rule(s) to this Action
2. Click "See More.	" button
Action Type Click  Selectt CSS Se *	Selector Value [data-test-id="see-more-info"]
	+ Add Alternate Selectors
	additional seconds on this action.

DON'T. Navigate by clicking.

Navigate directly using the "Navigate to" action.





DON'T. Navigate by clicking.

Navigate directly using the Navigate to action.

Unless. You need to test analytics along a navigation path.

DON'T. Navigate by clicking.

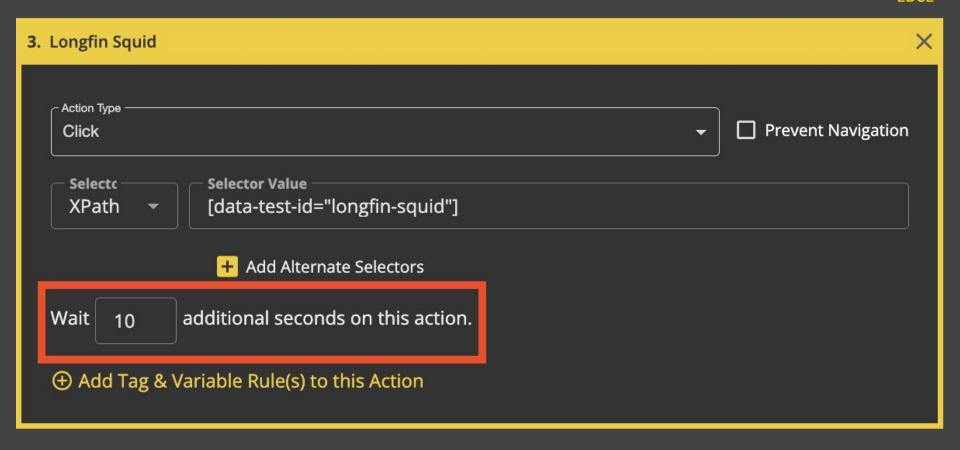
Navigate directly using the Navigate to action.

Unless. Deep links are unavailable.



## DON'T. Ratchet up wait times







# 3. Longfin Squid Action Type **Prevent Navigation Execute JavaScript** JavaScript\* setTimeout(() => { document.query elector('[data-test-id="wildlife-search"]') }, 10000) Wait additional seconds on this action. ① Add Tag & Variable Rule(s) to this Action

DON'T. Ratchet up wait times.

Trust ObservePoint to wait for network silence after each step.

Unless. There is an explicit delay in your event.



DON'T. Assume dynamic content is static.



## **Dynamic Content**

- AB Testing & Personalization Engines
- Flight Routes are discontinued
- Hotel Rooms are fully booked
- Seasonal Products Become Available
- Price change
- Content increases in popularity
- Daylight Savings Time
- 👺

**DON'T.** Assume dynamic content is static.

Establish test products or facilities.

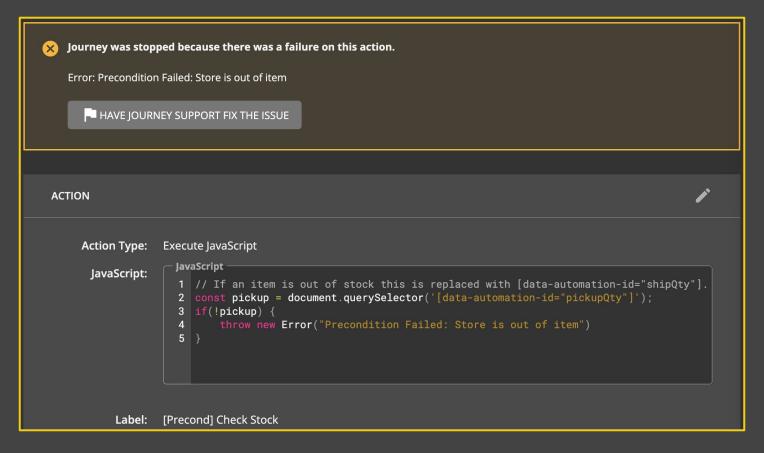
Impossible? You have to compensate.



Compensate. Create actions that detect dynamic content.

Establish naming convention(s).

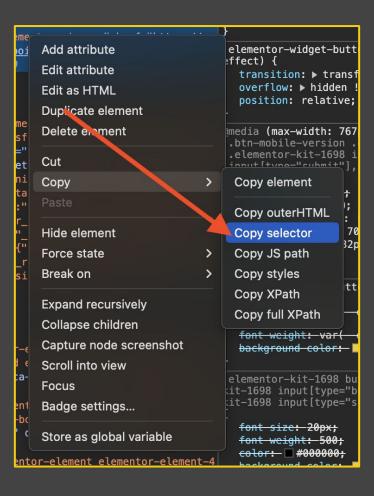






**DON'T.** Use unreliable selectors.







#content > div > div > section.elementor-elementor-element-a5118d7.e-flex.e-con-boxed.e-con.e-parent.e -lazyloaded > div > div.elementor-element.elementor-element-a303b1e.e-con-full.e-flex.e-con.e-child > div.elementor-element.elementor-element-c78116a.elementor-mobile-align-center.animate d-slow.elementor-mobile\_extra-align-center.hover-button-glass.elementor-widget.element or-widget-button > div > div > a



### **Unreliable Selectors**

- button
- .shopping > a.buy
- .text-center
- .elementor-yellow
- .md:p-5
- :nth-child(0)
- .\_111a32



#### **Better Selectors**

- .shopping a.buy
- //button[text()='Buy']
- a[href='/institutional-investors']



#### **Reliable Selectors**

- #buy-it-now
- [data-test-id='buy-now']
- [data-test-class='search-result']
- [data-\*]

DON'T. Use unreliable selectors.

Do. Use reliable Selectors

Unless. You have no other choice.





DON'T. Assume your security infrastructure will not block ObservePoint.

Do. Work with the responsible team(s) to add ObservePoint to allowlists.

Un ess. You enjoy troubleshooting unreliable journeys. 🙃

DON'T. Schedule all your journeys to run at the same time.

Do. Stagger your journeys to run at different times.

Unless. Easier to configure

<u>/</u>

DON'T. Click everything on a page.

Work with your CSM to implement our Patented ClickAll+ solution in an audit.

#### <del>Unless.</del>

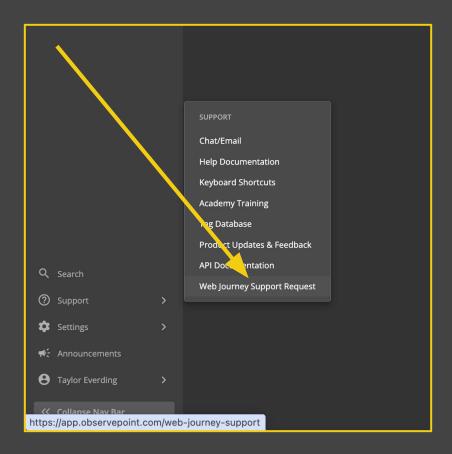
















You have 10 Journey Requests available this month.				
OURNEY SUPPORT REQUEST FORM				
Use this form to submit a request to the Journey Support team to create a Jour complete. How to use this form.	ney for you in your account. You will be notified by email when it is			
Download the Excel file 👲 and enter each individual action you want to take place in the Journey. Describe each action in detail so that the Journey Support team can correctly implement the Journey.				
☐ JOURNEYS TO CREATE**				
SPECIAL INSTRUCTIONS				
Enter special instructions such as location, schedule, etc.				
Please download this excel file, complete it then upload the modified .xlsx file (10MB limit)	Upload a file or video to help our team understand your needs (150MB limit)			
◆ UPLOAD COMPLETED TEMPLATE	▲ UPLOAD VIDEO OR FILE			
drag & drop	drag & drop			
For any questions regarding the status of a request, please contact us at journey.support@observepoint.com				
	SUBMIT			
	SOBMIT			



# Thank you.