

Open source data infrastructure



The disclaimer

Everything is open source

LICENSE

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- ✓ Modification
- Distribution
- Private use

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Expectations vs. reality

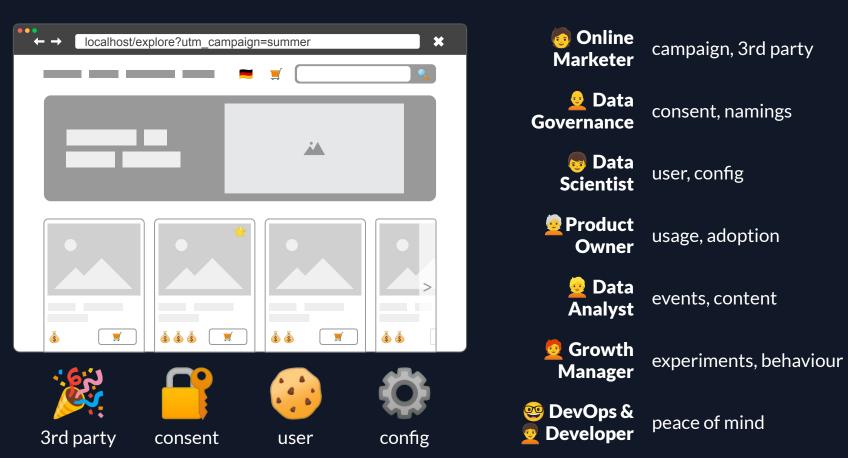
How data analytics has changed

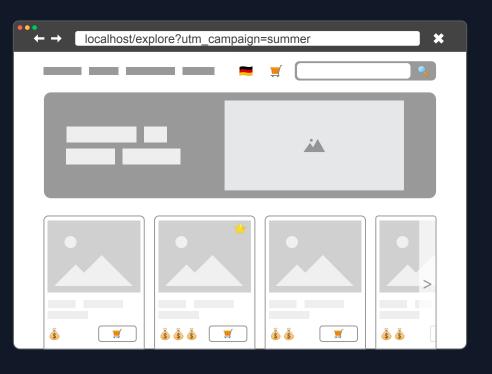


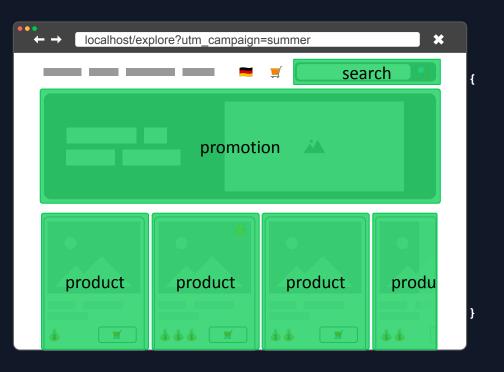


Data collection interests

Different needs but same origin





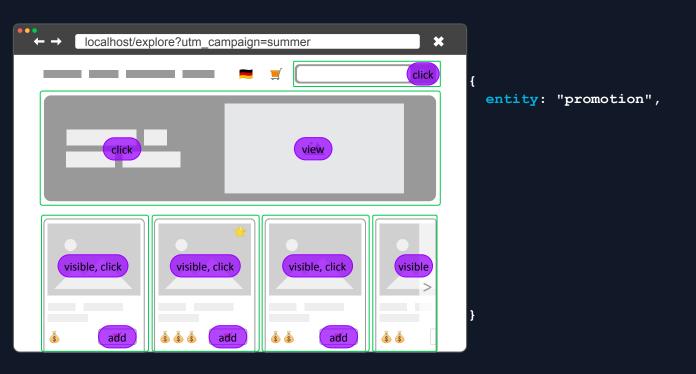


Exemplary on a website



Entity

Exemplary on a website

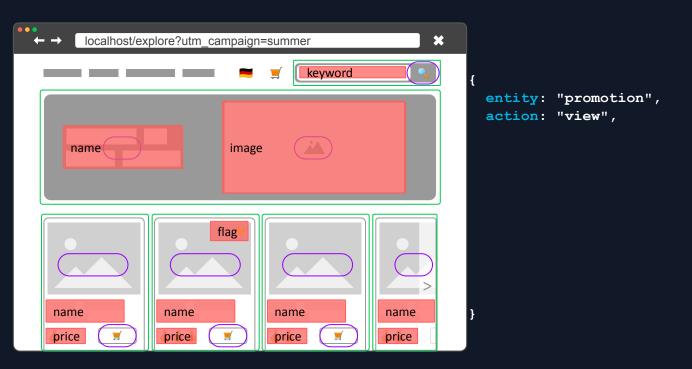


Entity

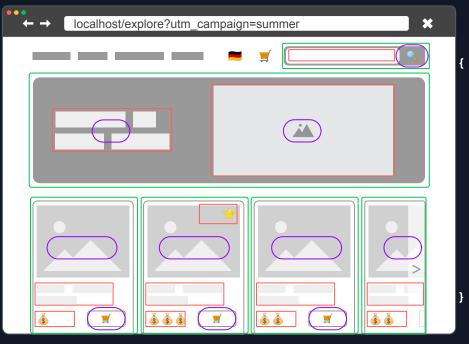
Exemplary on a website



Action







```
entity: "promotion",
action: "view",
data: {
  name: "Setting up ...",
  category: "analytics"
},
```

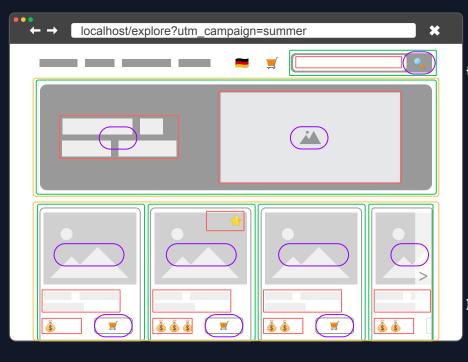


Exemplary on a website



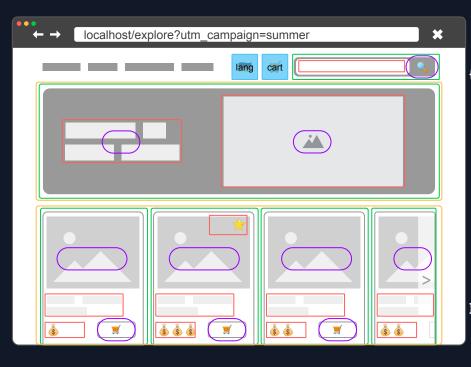
Property

Action



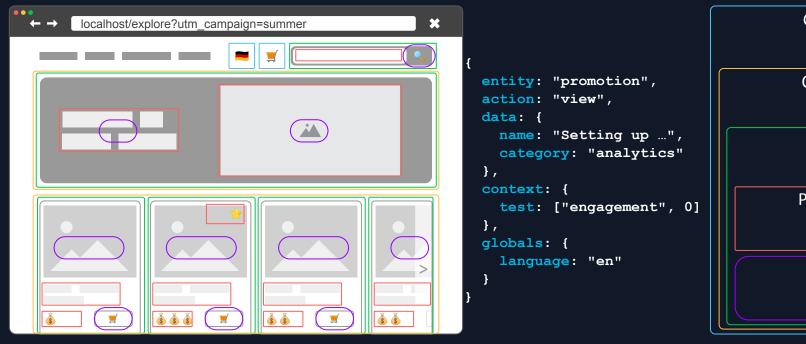
```
entity: "promotion",
action: "view",
data: {
   name: "Setting up ...",
   category: "analytics"
},
context: {
   test: ["engagement", 0]
},
```





```
entity: "promotion",
action: "view",
data: {
   name: "Setting up ...",
   category: "analytics"
},
context: {
   test: ["engagement", 0]
},
```







```
entity: "promotion",
000
                       tagging.html
                                                          action: "view",
<body data-elbglobals="language:en">
                                                          data: {
 <div data-elbcontext="test:engagement">
                                                            name: "Setting up ...",
   <div data-elb="promotion" data-elbaction="visible:view">
                                                            category: "analytics"
     <h1 data-elb-promotion="name:Setting up tracking easily">
                                                          },
      Setting up tracking easily
                                                          context: {
     </h1>
                                                            test: ["engagement", 0]
     Analytics
                                                          },
   </div>
                                                          globals: {
  </div>
                                                            language: "en"
</body>
```

```
Globals
 <div data-elbglobals="key:value">
          Context
 <div data-elbcontext="key:value">
            Entity
      <div data-elb="entity">
          Property
 <div data-elb-entity="key:value">
           Action
<div data-elbaction="trigger:action">
```

Exemplary on a server

```
src/packages/promotions/test.ts
await elb({
  event: "promotion view",
  data: {
    name: "Setting up tracking easily",
    category: "analytics",
 },
  context: {
   test: ["engagement", 0],
  },
 globals: {
    language: "en",
 },
});
```

```
{
  entity: "promotion",
  action: "view",
  data: {
    name: "Setting up ...",
    category: "analytics"
  },
  context: {
    test: ["engagement", 0]
  },
  globals: {
    language: "en"
  }
}
```



```
000
                                  walker.is event
 event: 'promotion view', // Combination of entity and action
 data: { // Arbitrary set properties with the data-elb-promotion attribute
   name: 'Setting up tracking easily',
   category: 'analytics',
 },
 context: { // Related properties defined with the data-elbcontext attribute
   test: ['engagement', 0] // Value and order
 },
 qlobals: { // General Properties defined with the data-elbglobals attribute
   language: 'en'
 user: { // Stored user ids (manually added once)
   id: 'userid',
   device: 'cookieid',
   session: 'sessionid',
 },
 nested: [], // All nested entities within the promotion
 consent: { functional: true }, // Status of the consent state(s)
 id: '1647261462000-01b5e2-5', // Timestamp, group & count of the event
 trigger: 'visible', // Name of the trigger that fired
 entity: 'promotion', // Entity name
 action: 'view', // Entity action
 timestamp: 1647261462000, // Time when the event fired
 timing: 3.14, // How long it took from the page load to trigger the event
  group: '01b5e2', // Random group id for all events on a page
 count: 2, // Incremental counter of the events on a page
 version: { // Helpful when working with raw data
   walker: 1.6, // Used walker.js version
   config: 42, // A custom configuration version number
  source: { // Origins of the event
   type: "web", // Source type of the event
   id: 'https://github.com/elbwalker/walker.js', // Source id of the event
   previous_id: 'https://www.elbwalker.com/' // Previous source id (referrer)
 },
 walker: true, // Flag to filter events
```

- First party
- ✓ Source of truth
- Vendor agnostic
- Structured flexibility
- Industry independent

Sending to destinations

Spread the event(s)

```
entity: "promotion",
action: "view",
event: "promotion view",
data: [
  name: "Setting up ...",
  category: "analytics"
},
context: {
  test: ["engagement", 0]
},
globals: {
  language: "en"
```





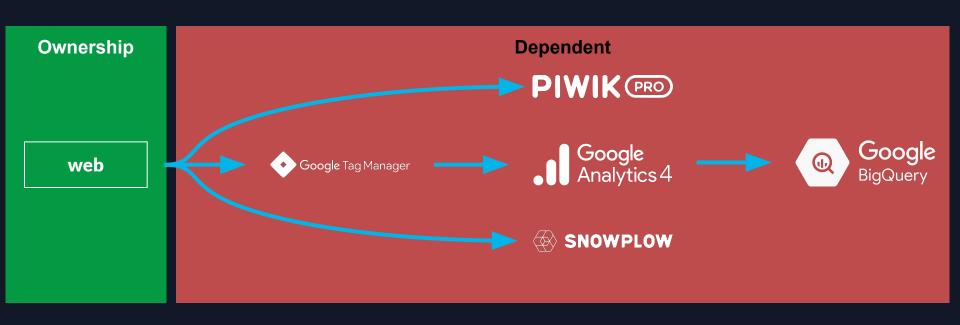






Data infrastructure

How to get from A to Z



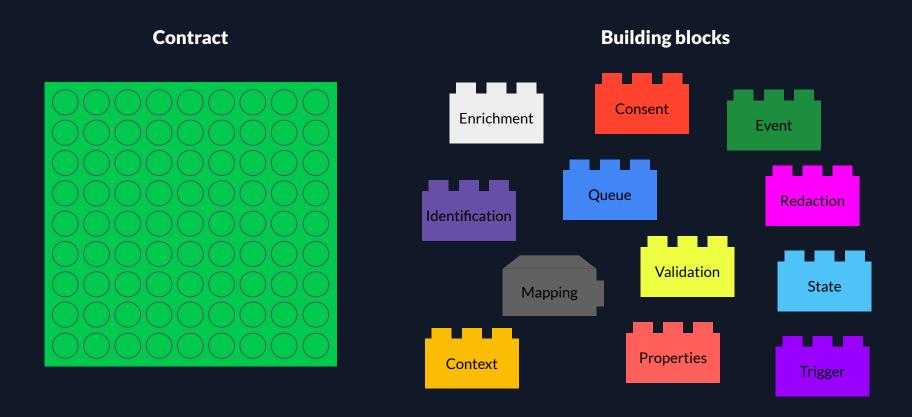
Data infrastructure

How to get from A to Z



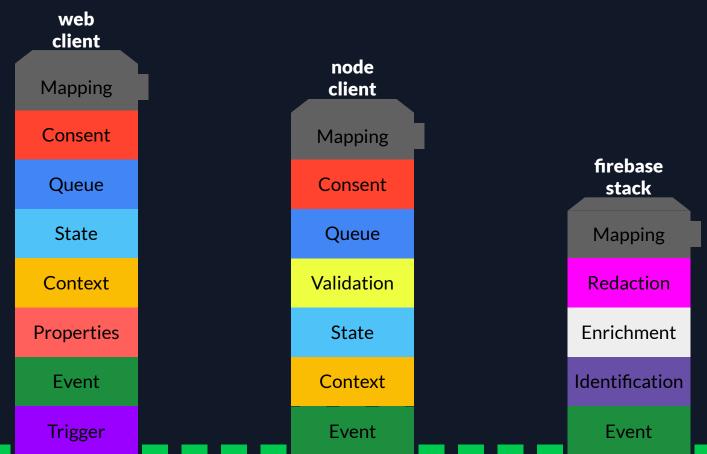
Data playground

Unlimited possibilities



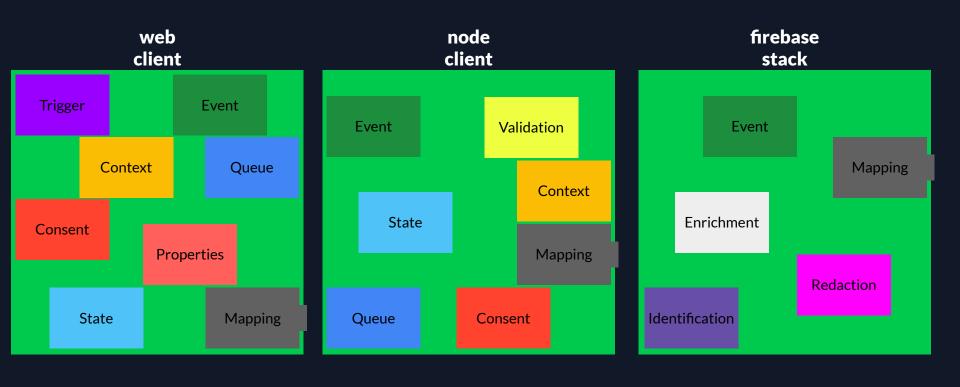
Utils are the building blocks

Just another brick in the stack



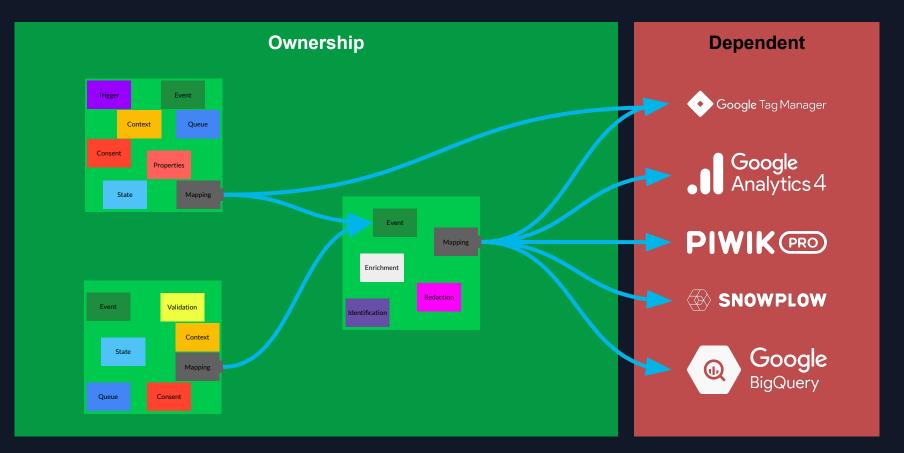
Data playground

Building blocks and contracts



Data playground

Building blocks and contracts



The project has evolved

What do you think?

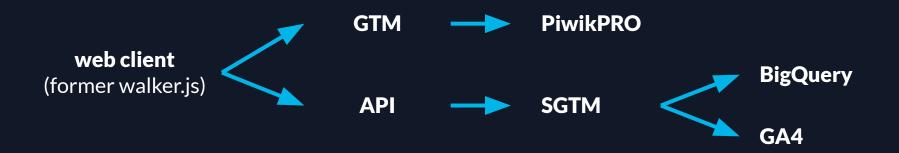
walker.js



walkerOS

Data collection with walkerOS

Show me



Data collection with walkerOS

Show me

Demo



Děkuji

hello@elbwalker.com
in alexander.kirtzel



Data collection complexity

Everything is relative





martechmap.com

