Mic

PRODUCT & ENGINEERING

Mic exists to help our audience make sense of a rapidly changing world. By informing our generation about the issues of our time, we're serving as a catalyst for people to make an impact.

PRODUCT & ENGINEERING

TO DESIGN AND DEPLOY THE BEST REPORTING TOOLS AND NEWS EXPERIENCE IN THE WORLD.



A LITTLE BIT OF SCALE TO CONSIDER

25 Million Uniques Per Month

Upwards of 50,000 concurrents during peak traffic

Half a billion data points



Mic

WHAT WE ARE WORKING ON

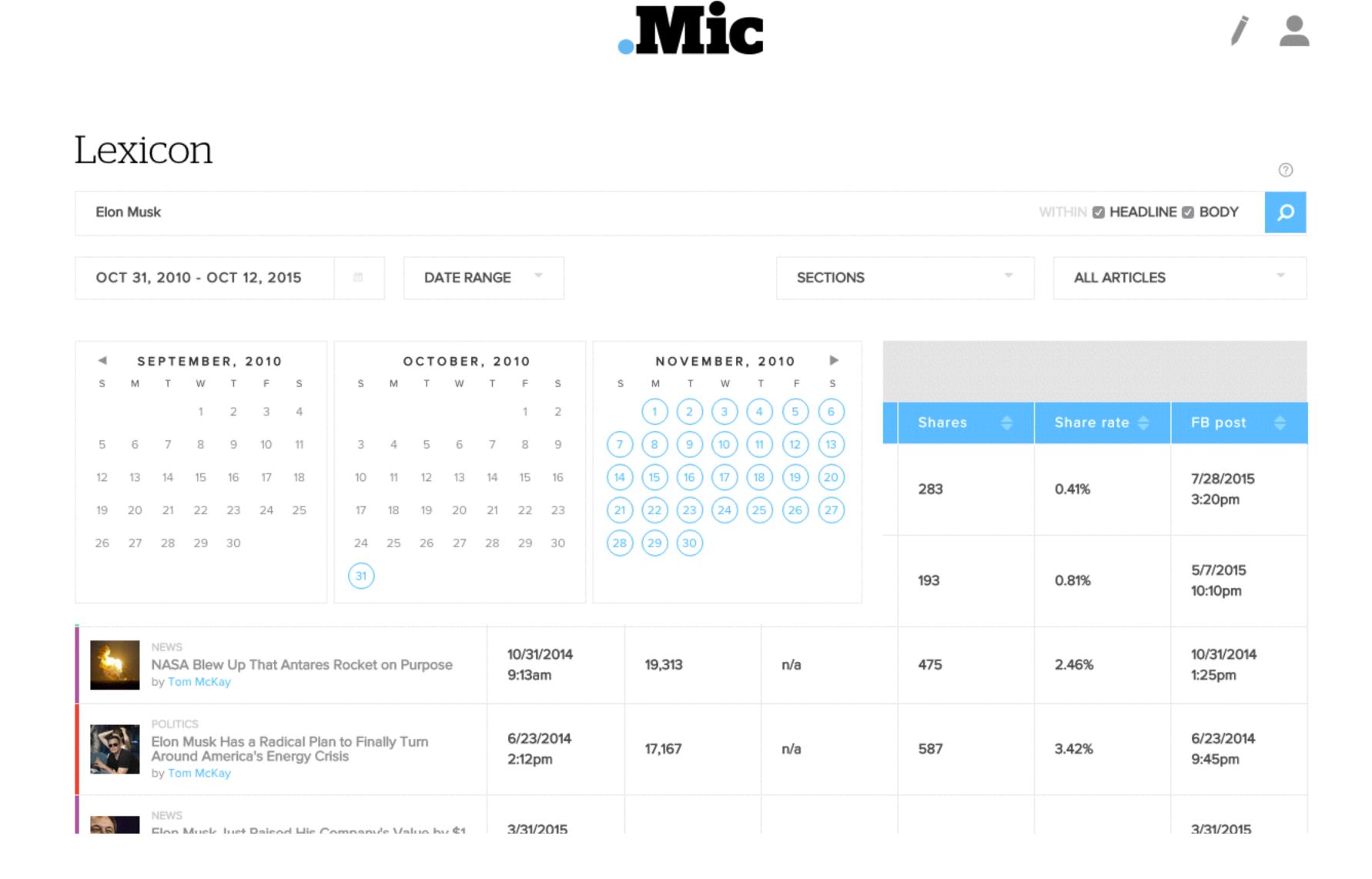
DESKTOP & MOBILE







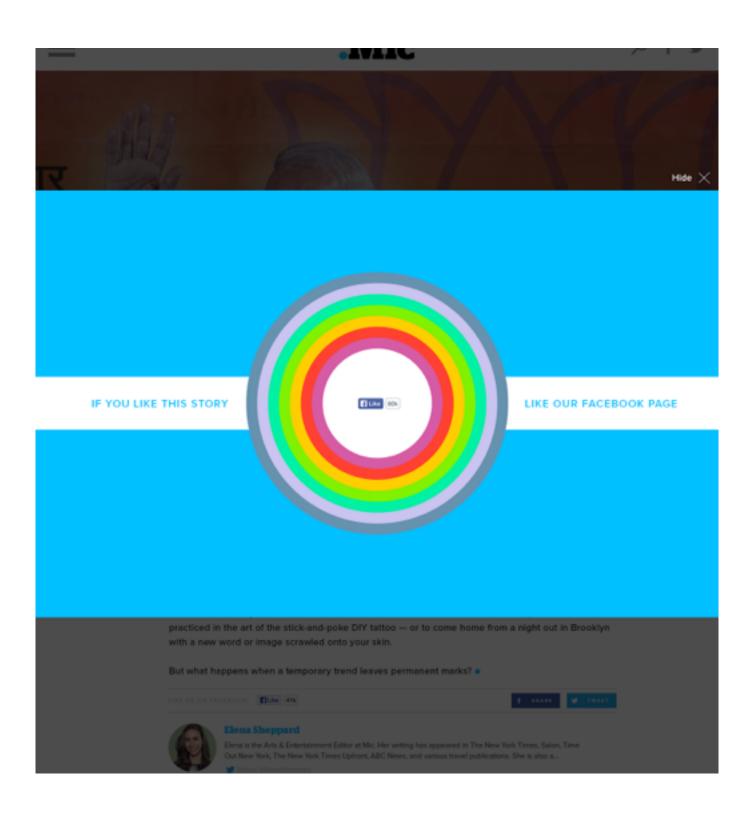
LEXICON - INTERNAL SEARCH

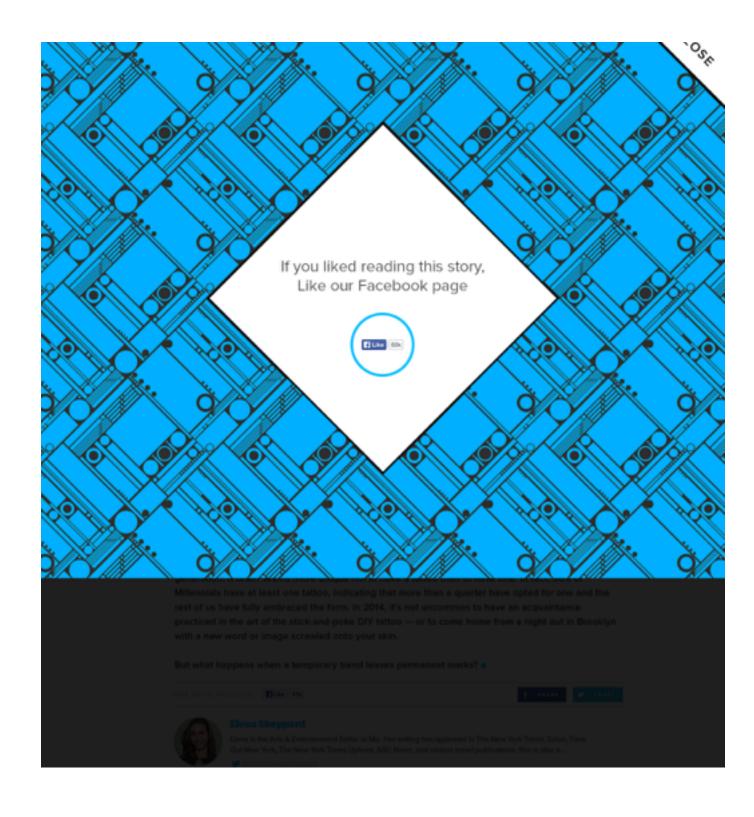




A/B UI & UX TESTING

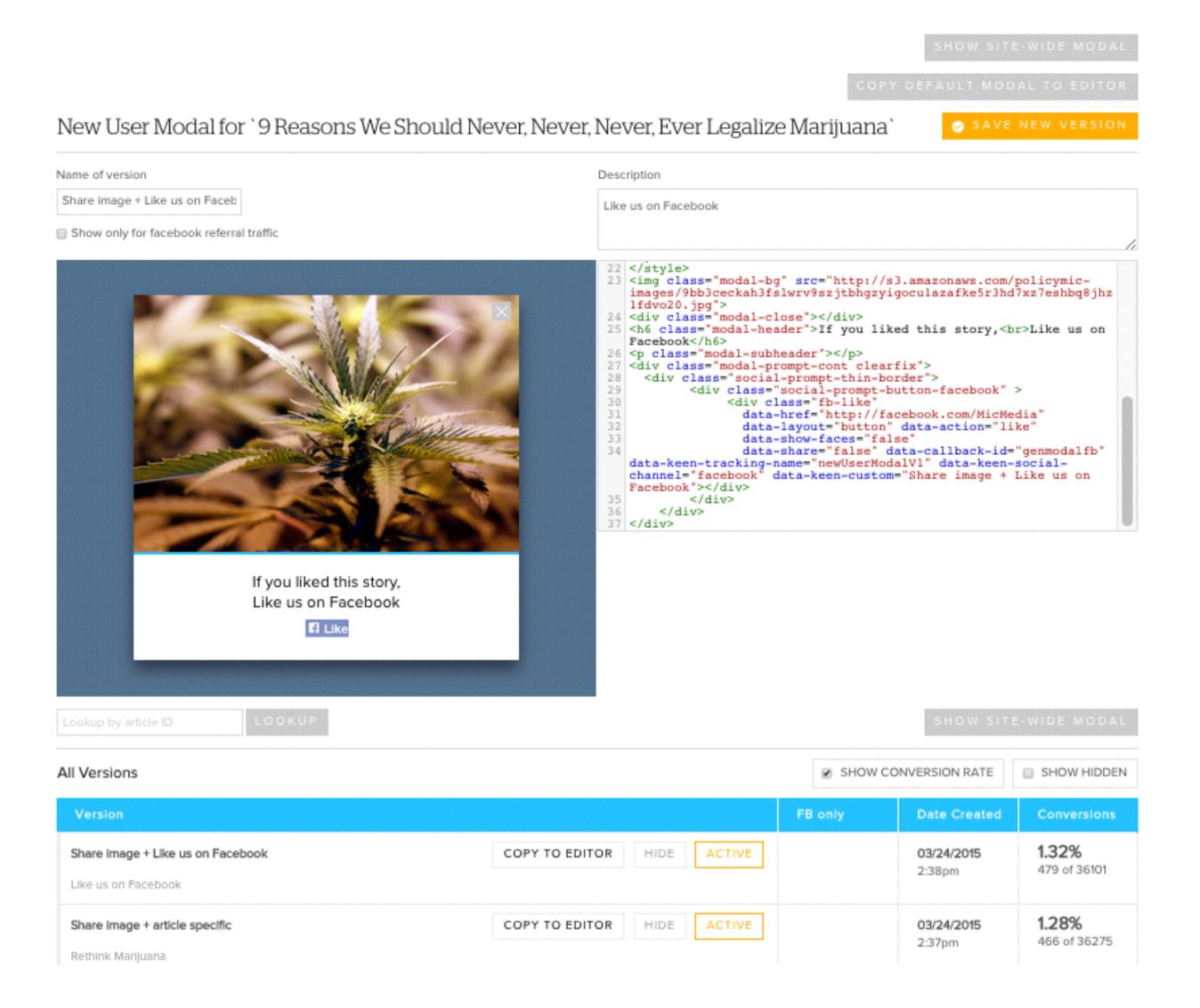






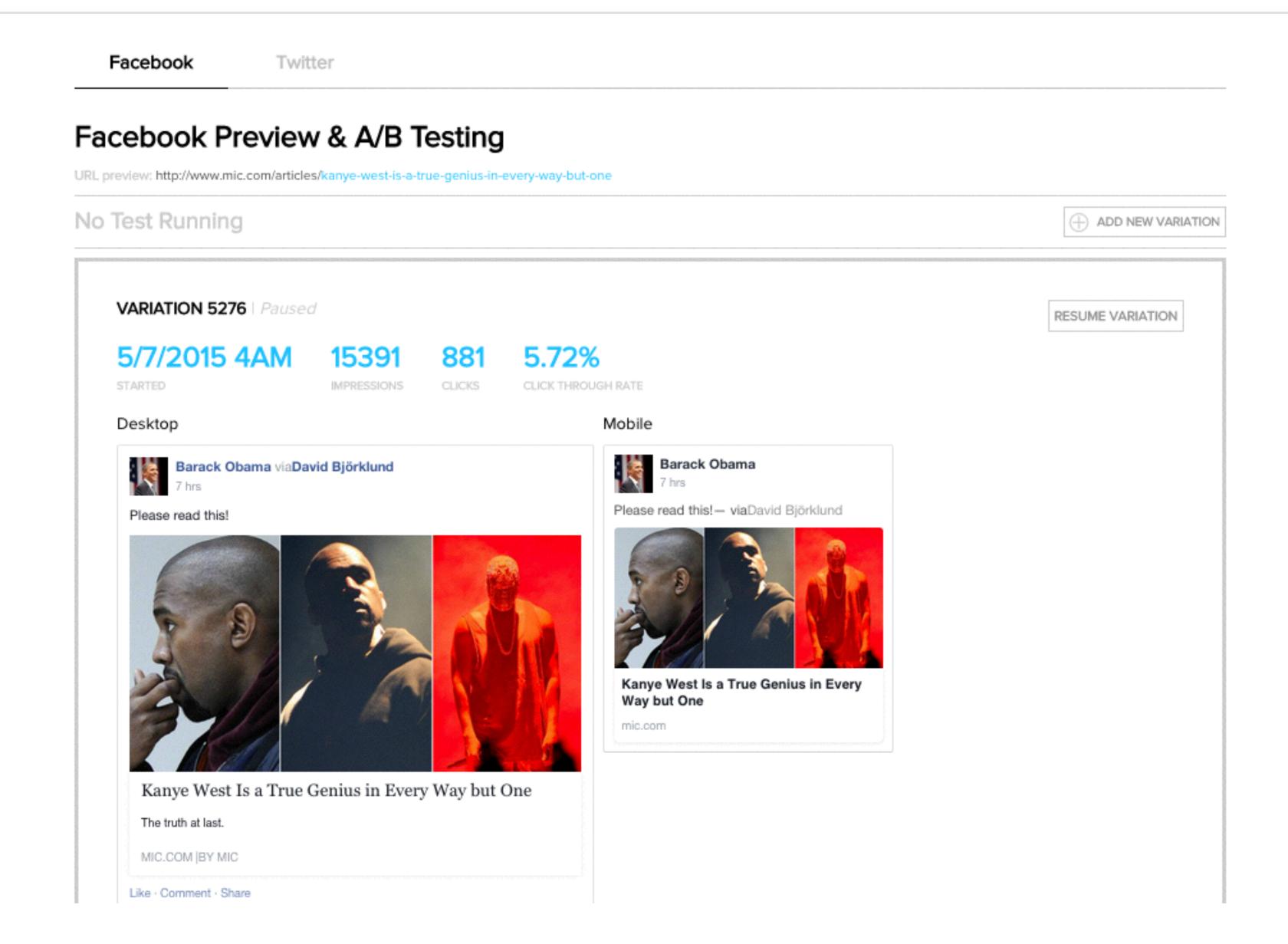


A/B UI & UX TESTING - LEVERS



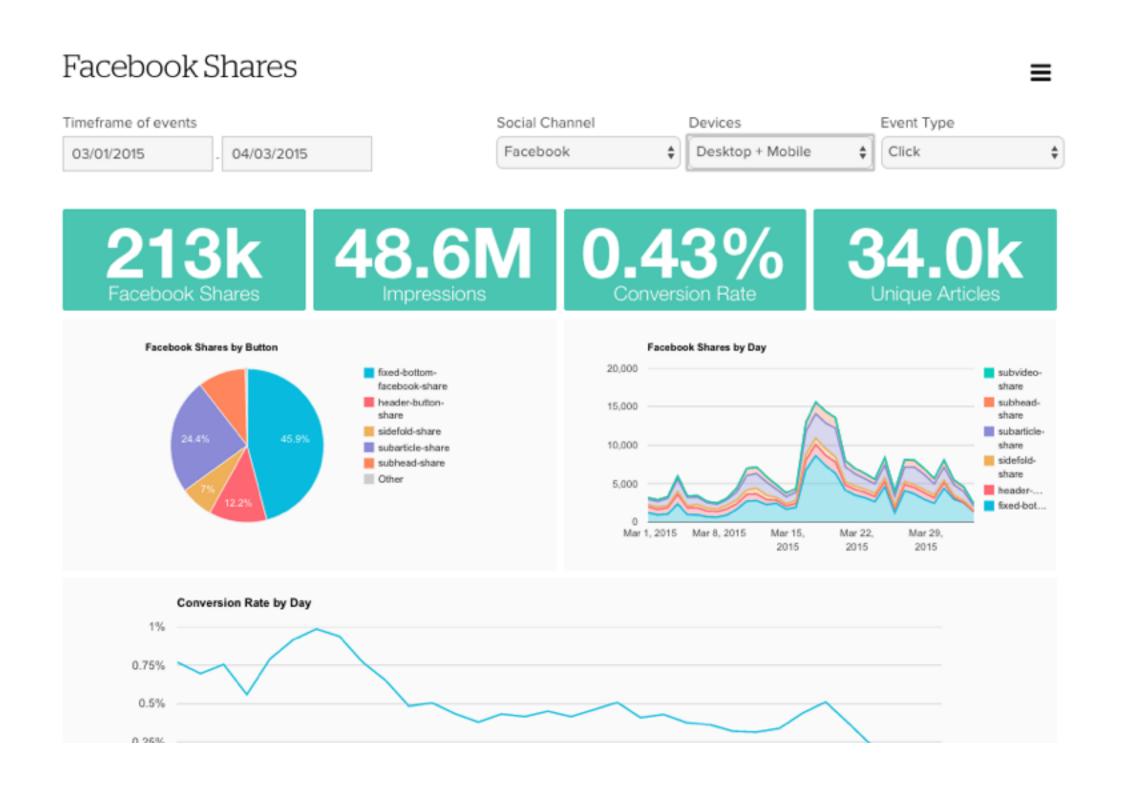


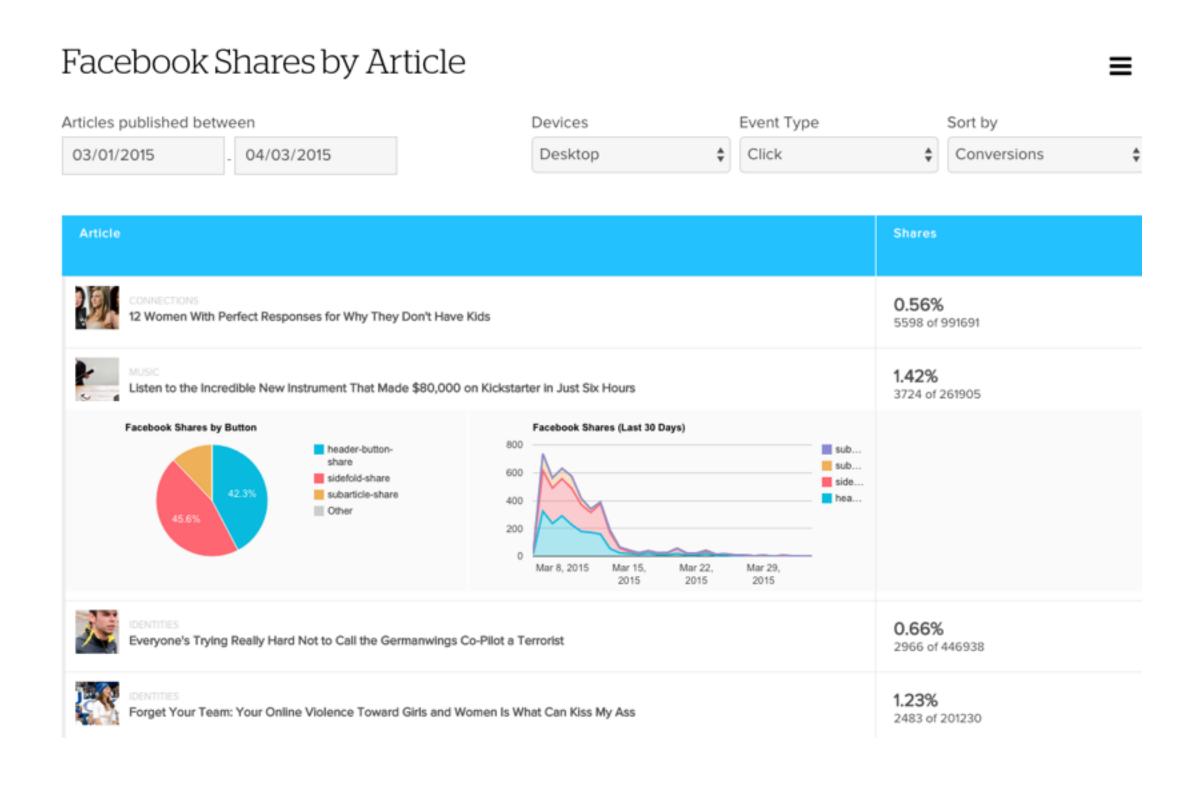
CONTENT TESTING





ANALYTICS





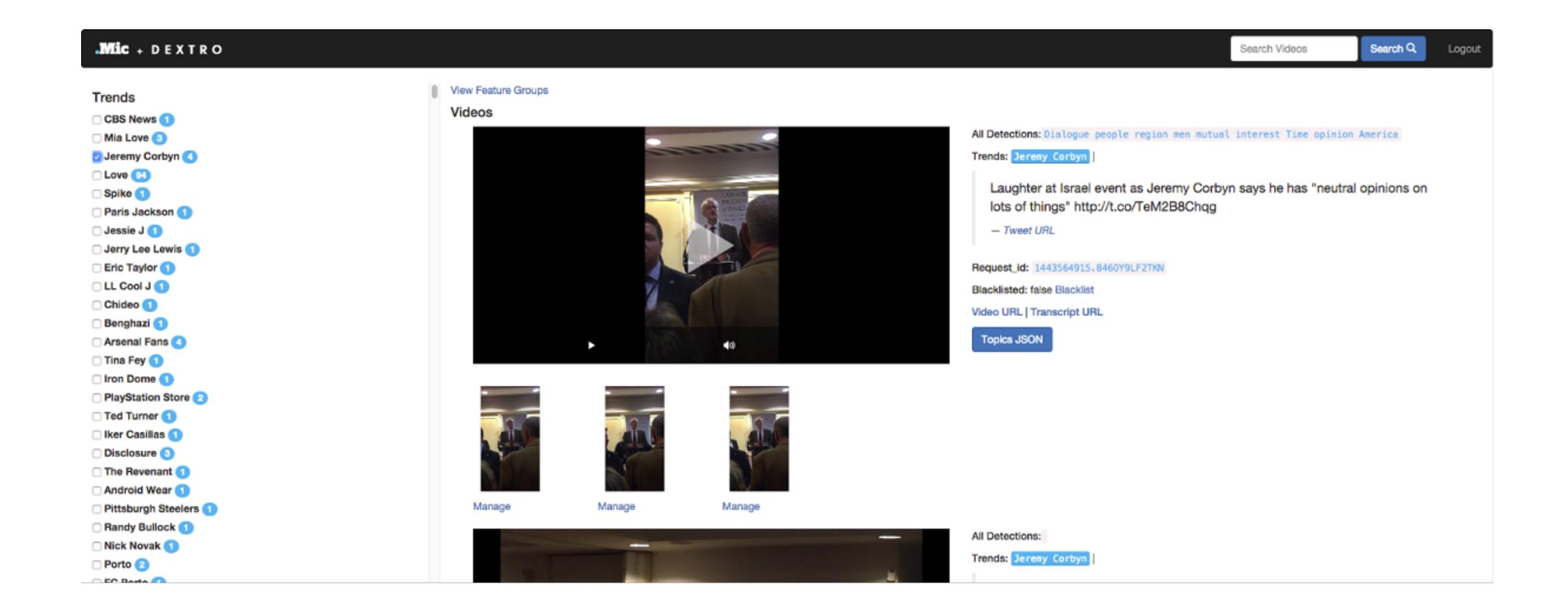


CUSTOM VIDEO PLAYER





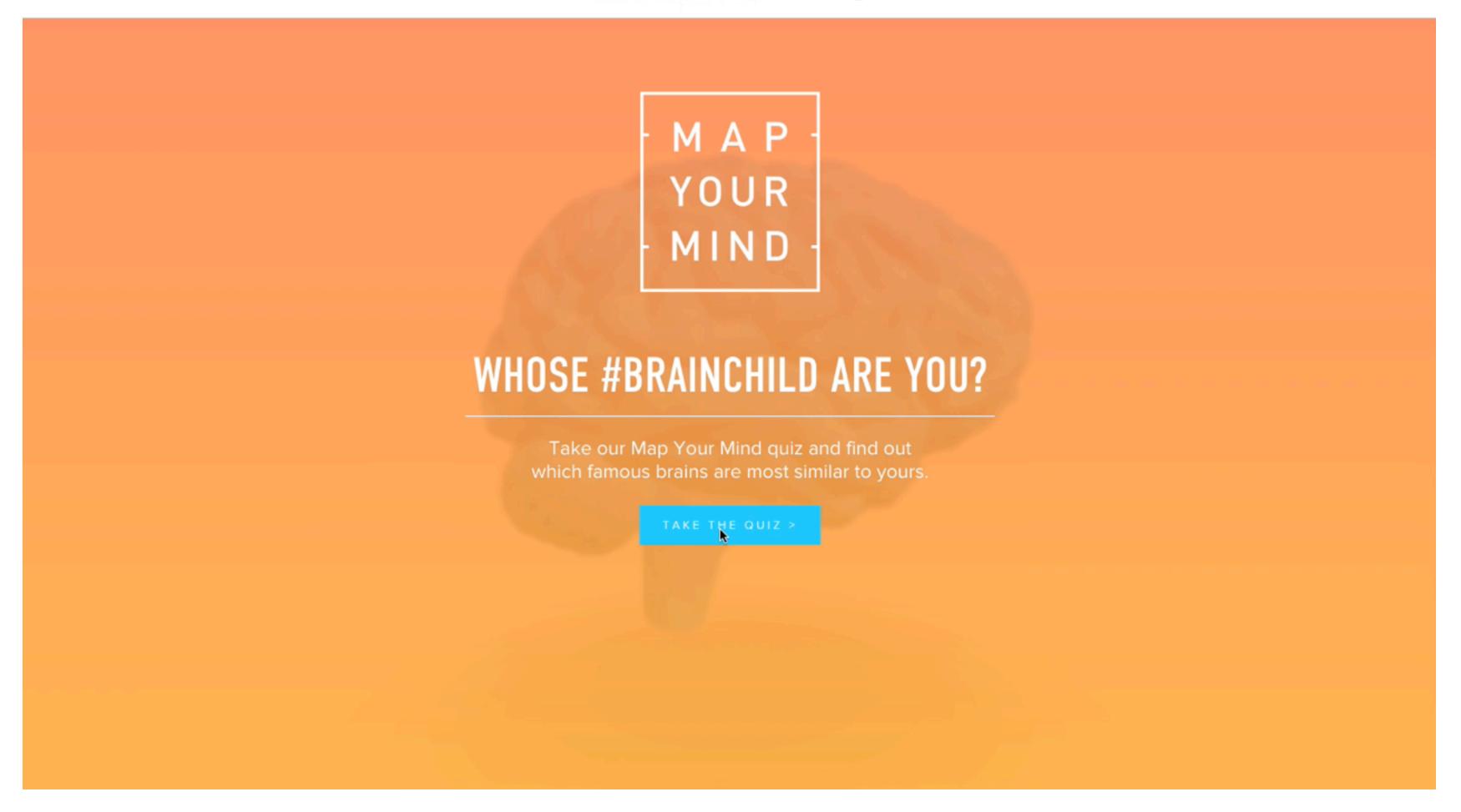
MACHINE VISION





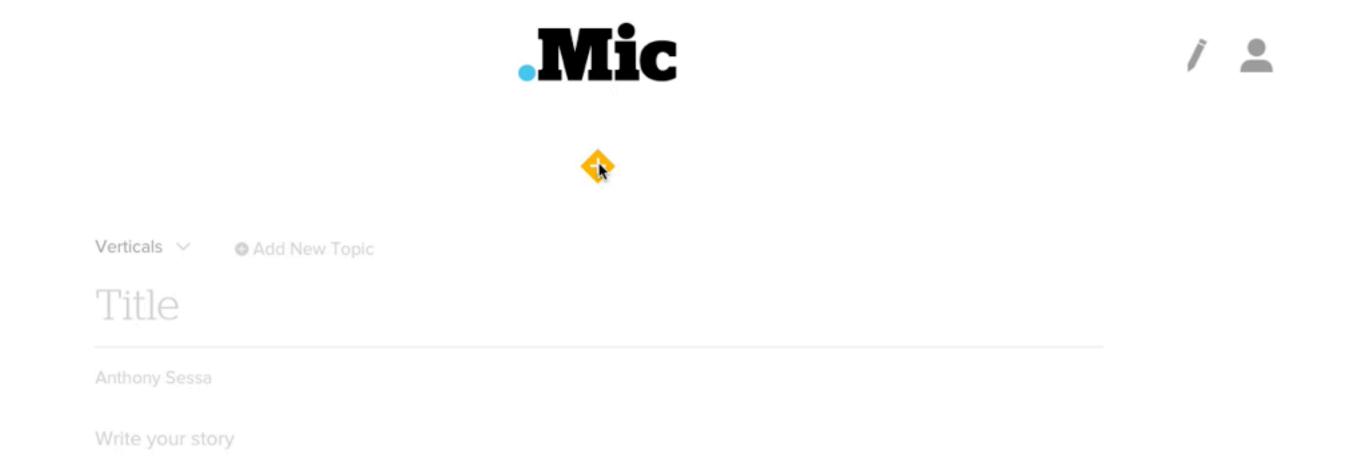
SALES STUFF

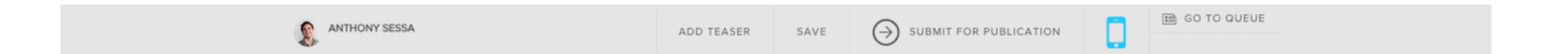
Brain.Mic





CYPRESS







DISTRIBUTED TEAM



David Björklund kesla

- Stockholm, Sweden
- david.bjorklund@gmail.com
- http://davidbjorklund.com
- (L) Joined on Apr 15, 2009

104 Followers 809

183 Following

https://github.com/kesla
Sweden

https://github.com/kesla/node-snappy https://github.com/kesla/node-leaky



Lisa Övermyr ellell

- Stockholm, Sweden
- http://ellell.github.io
- (b) Joined on Nov 22, 2011

9 Followe 81

15 Following

https://github.com/ellell
Sweden

https://github.com/ellell/github-rsvp
https://github.com/ellell/node-imsg



Serge iefserge

mic.com

Ukraine

http://runtimejs.org

(L) Joined on Nov 25, 2013

46 Followers 107

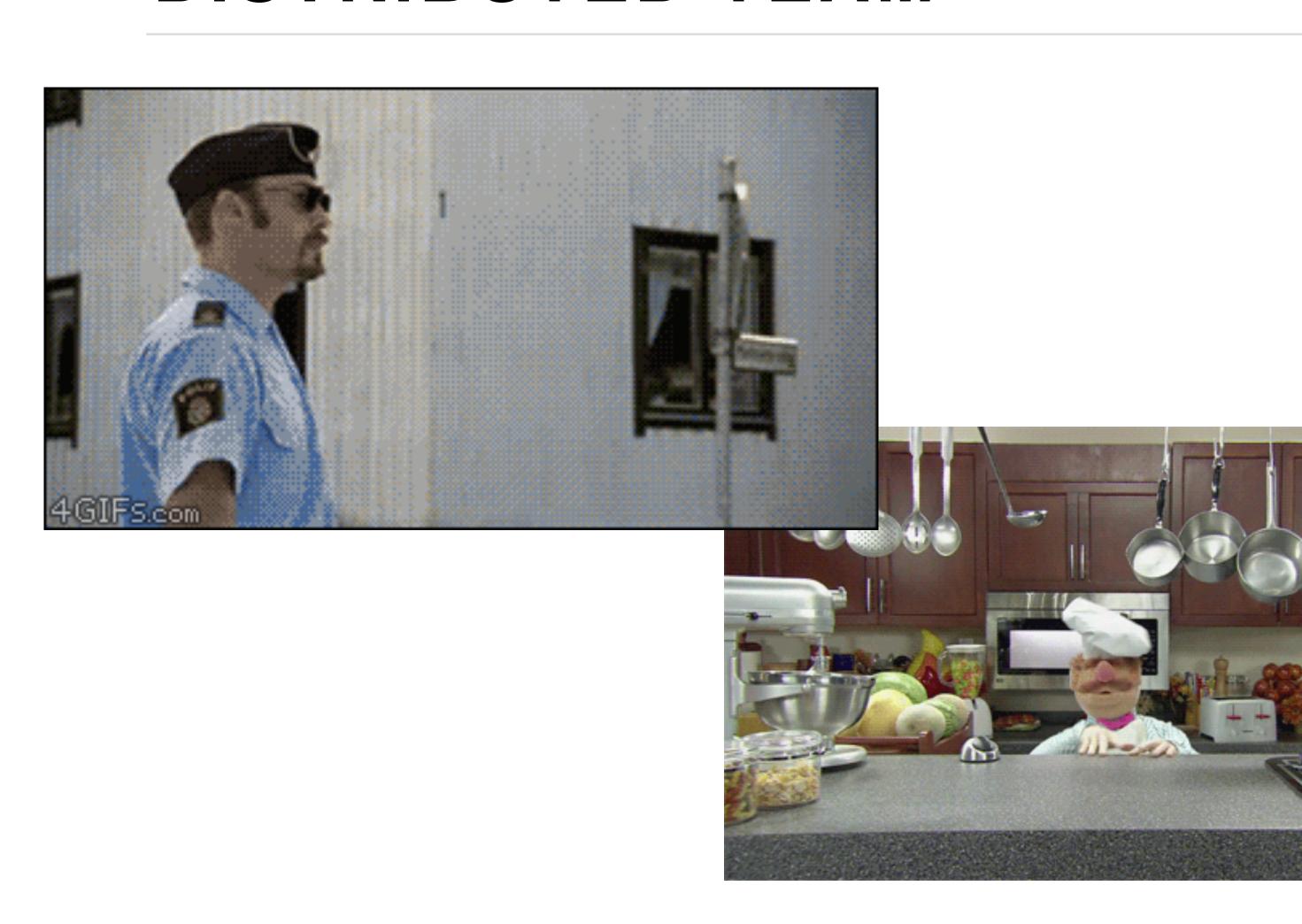
15 Following

https://github.com/iefserge
Ukraine

https://github.com/runtimejs/runtime
https://github.com/iefserge/eshttp
https://github.com/micnews/hyperlevel-backup-tos3



DISTRIBUTED TEAM





THE STACK



- Node + NPM
- Browserify
- PostCSS & SASS
- No MV* Frameworks
- AWS
- MySQL
- Some NoSQL (Data)
- TravisCI
- Custom Deployment build w/ Node



CONTENT IS KING (RENDER-ARTICLE-

```
index.js
                                                                                                             rectangle-image-url.js
                                                                                                              1 'use strict';
var endMarker = require('./lib/end-marker');
var deep = require('deep-access');
                                                                                                           3 var Image = require('@mic/image-url-builder');
12 var htmlparser = require('htmlparser2');
13 var domutils = require('domutils');
                                                                                                             5 var rectangleImageUrl = function (image) {
var formatText = require('format-text');
                                                                                                                  if (!image.views || !image.views.rectangle) {
var lazyYoutube = require('./lib/lazy-youtube');
                                                                                                                     return image.original.src;
var lazyEmbeds = require('./lib/lazy-embeds');
17 var lazyImages = require('./lib/lazy-images');
18 var cdnify = require('./lib/cdnify');
                                                                                                            var view = image.views.rectangle;
19 var gracefulGifs = require('./lib/graceful-gifs');
20 var shortArticleBody = require('./lib/short-article-body');
                                                                                                            12 var cropOptions = {
21 var resizeImages = require('./lib/resize-images');
                                                                                                                     left: view.x,
var unwrapEmbeddableContainer = require('./lib/unwrap-embeddable-container');
                                                                                                                    right: view.x2,
23 var iframeEmbeds = require('./lib/iframe-embeds');
                                                                                                                     top: view.y,
24 var customAttributes = require('./lib/custom-attributes');
                                                                                                                    bottom: view.y2
25 var unifyYoutube = require('./lib/unify-youtube');
                                                                                                            17
                                                                                                                  };
26 var supportedEmbeds = require('./lib/supported-embeds');
27 var unifyEmbedTypes = require('./lib/unify-embed-types');
                                                                                                           { 19 \rightarrow if (cropOptions.right - cropOptions.left > 840) {
var gifsToVideo = require('./lib/gifs-to-video');
                                                                                                                     cropOptions.width = 840;
29 var removeEmptyElements = require('./lib/remove-empty-elements');
                                                                                                                    var originalWidth = cropOptions.right - cropOptions.left;
30 var resizeGifs = require('./lib/resize-gifs');
                                                                                                                     var originalHeight = cropOptions.bottom - cropOptions.top;
31 var custom = require('./lib/custom');
                                                                                                                     var newHeight = cropOptions.width * originalHeight / originalWidth;
32 ∨ var defaultMaxGifSize = {
                                                                                                                     cropOptions.height = Math.round(newHeight);
33 width: 900,
                                                                                                           } 25
34 height: 900
35 };
                                                                                                                   return (new Image(image.original.src, 'jpg')).getByCrop(cropOptions);
37 ∨ module.exports = function (article, opts) {
      opts = opts || {};
                                                                                                            30 module.exports = rectangleImageUrl;
      assert(article, 'required: article');
      assert(typeof (article.body) === 'string' || Array.isArray(article.list),
        'required: .body or .list');
      assert(!(opts.custom && opts.customAttributes),
        '.custom & .customAttributes can not both be set');
      // wrap body to be able to remove the outermost elements
      var dom = htmlparser.parseDOM('<wrap>' + (article.body || '') + '</wrap>')[0].children;
      // remove all comments
48 ∨ dom.forEach(function (elm) {
        if (elm.type === 'comment') {
          domutils.removeElement(elm);
      });
54 ∨ if (opts.endMarker && dom.length > 0 &&
        (!Array.isArray(article.list) || article.list.length === 0)) {
```



A LITTLE MORE ABOUT OUR PROCESS

 Lots of modules → Small iterations → Requires great process

Combine Product & Engineering → Hire Technical
 Product Managers → Have Strong Values



CHALLENGES AND THE FUTURE

Challenges

- Data collection & infrastructure
- We Need MOAR engineers

The Future

- Microservices (@mic)
- Better Industry Metrics
- Distributed Content & Analytics
- Apps?



THANKS!

@micproduct
https://medium.com/readme-mic

@anthony_sessa

