Tooldriven UX-designprocess using Kibana

This survey aims to examine if using Kibana as a visualization tool improves the UX-design process when visualizing data.

*Obligatorisk

To get an understanding of the design experience of the people who have answered this form we kindly ask you to fill the following information. It is not mandatory but it would help us a lot.

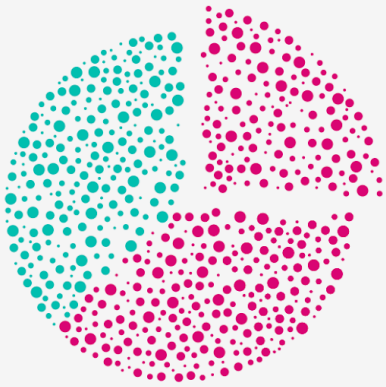
1. **How many years have you worked with design?**

Introduction to Kibana!

In this section you will get an introduction to the visualization tool Kibana.

Elastic stack is a tool that can get data from any source, in any format, and search, analyze and visualize it in near real time. It consists of four open source projects: Beats and Logstash that is used to retrieve data modify it, Elasticsearch for temporary storage of the data and Kibana for data visualization.

The following images describe Kibana and we would recommend you to look through them before you proceed to the questions. (The images are borrowed from https://www.elastic.co/products/kibana)



Your Window into the Elastic Stack

Kibana lets you visualize your Elasticsearch data and navigate the Elastic Stack, so you can do anything from learning why you're getting paged at 2:00 a.m. to understanding the impact rain might have on your quarterly numbers.

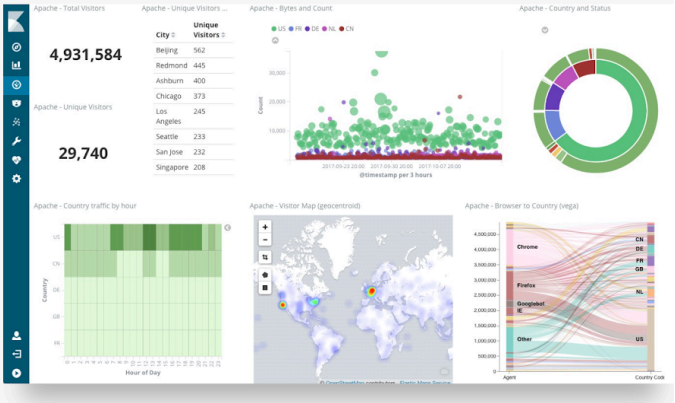
VISUALIZE & EXPLORE

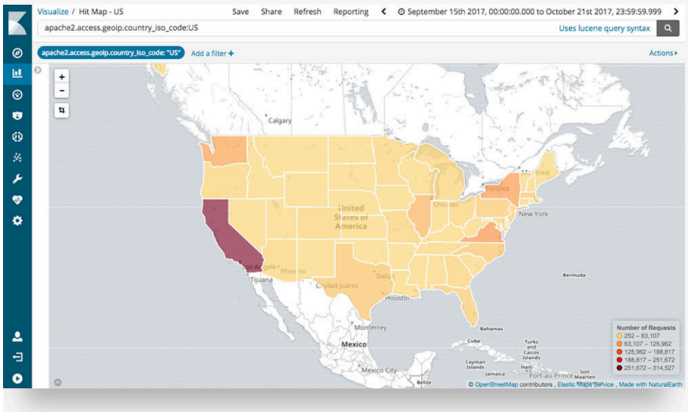
A Picture's Worth a Thousand Log Lines

Kibana gives you the freedom to select the way you give shape to your data. And you don’t always have to know what you're looking for. With its interactive visualizations, start with one question and see where it leads you.

Start with the Basics

Kibana core ships with the classics: histograms, line graphs, pie charts, sunbursts, and more. Plus, you can use Vega grammar to design your own visualizations. All leverage the full aggregation capabilities of Elasticsearch.



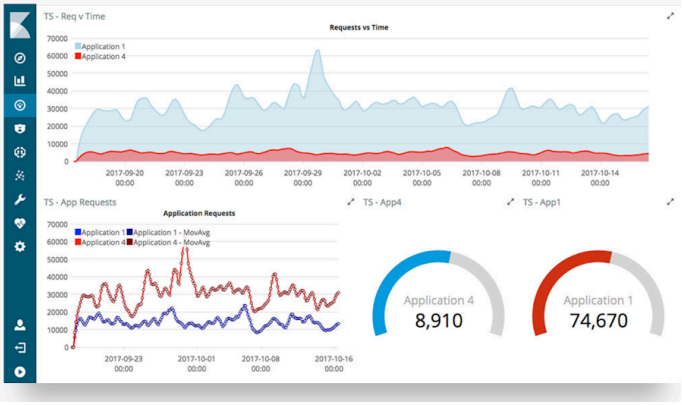


Put Geo Data on Any Map

Leverage the Elastic Maps Service to visualize geospatial data, or get creative and visualize custom location data on a schematic of your choosing.

Time Series Is Also on the Menu

Perform advanced time series analysis on your Elasticsearch data with our curated time series UIs. Describe queries, transformations, and visualizations with powerful, easy-to-learn expressions.



Explore Anomalies with Machine Learning

Detect the anomalies hiding in your Elasticsearch data and explore the properties that significantly influence them with unsupervised machine learning features in X-Pack.

SHARE THE KIBANA <3

Bring Everyone in on the Goodness.

Easily distribute Kibana visualizations to your team members, your boss, their boss, your customers, compliance managers, contractors — anyone you like, really.

Embed Dashboards & Send Links

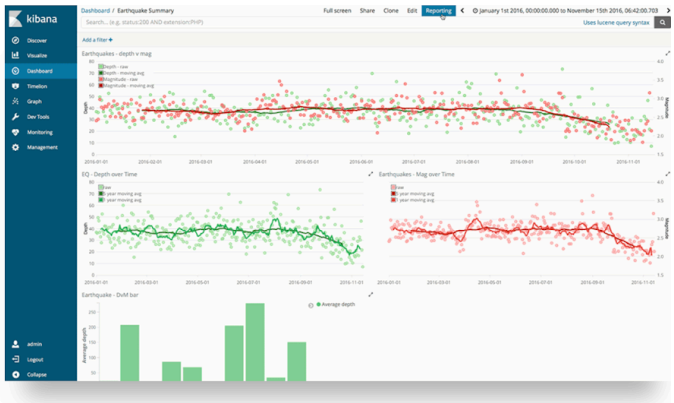
Insert dashboards into your internal wiki or webpage. Or send your coworker a URL to a dashboard.

Share Dashboards

Open your dashboards to a broader audience without worrying about accidental changes with Dashboard Only mode.

Export to PDFs & CSVs

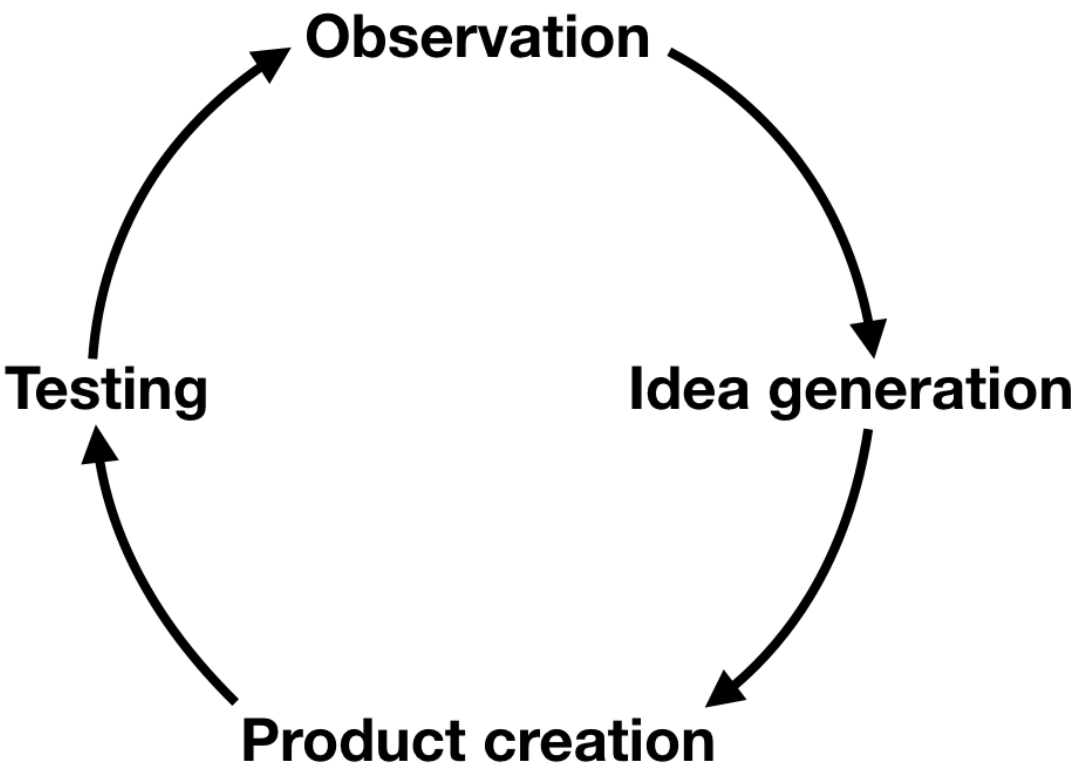
Create, schedule, and share PDF reports of your visualizations and dashboards using X-Pack. Export ad-hoc search results to a CSV file in a few clicks. Done.



Design process using Kibana

In this section you will get an introduction the design process using Kibana.

When using Kibana for data visualization the design process would consist of the following steps:


Observation
Idea generation
Product creation
Testing

The two first steps, **Observation** and **Idea generation**, follow the traditional UX-design process but the last two steps, **Product creation** and **Testing**, are modified.

Observation
This step is about investigation and understanding of the problem. Here the UX-designer observes the end-user in order to understand their needs, interests and motivations. In this step, the design requirements are determined.

Idea generation
In this step solutions that meet the design requirements are found. The procedure for that part of the design process is done by following the three steps bellow:

- be creative and convey many ideas,
- avoid criticizing these ideas, being creative without regard to limitations,
- question everything, even the obvious.

Product creation
The third step is where the user interface of the product is created. The UX-designer experiments with different designs and demonstrates the user interface to the board to check if the product is functional and useful. High-fidelity can be reached because the UX-designer works with the product instead of working with a prototype. This means that the system's functionality would be applied in this product.

Testing
The fourth and last step is about observing the interaction between the product and the user. It can be be done by demonstrating different versions of the user interface to users, interviewing the user, asking questions, using surveys to identify difficulties with the user interface. Since the UX-designer creates a product instead of a prototype the user always tests the full functionality of the system which allows a complete interaction during testing.

Evaluation of design process

In this section you will be asked to rate different characteristics of Kibana. When answering the questions keep in mind how the design process would be affected by the different aspects.

2. **When using Kibana for visualizing data you work with the product instead of working with a prototype. This ensures high-fidelity in three different aspects and without scarifying time and money. This means that you always work with the full functionality of the system which allows full interaction during testing. The visualisation during development is the same as the finished product, when it is accepted by the customer. How would you rate the following characteristics?** *

   Markera endast en oval per rad.

	Very poor	Poor	Fair	Good	Very good	Don't know
Interaction	◯	◯	◯	◯	◯	◯
Functionality	◯	◯	◯	◯	◯	◯
Visualisation	◯	◯	◯	◯	◯	◯

3. **Limitation 1 in Kibana: Characteristics of UI-elements. The data in the UI-elements can be changed however there are some characteristics of the UI-elements that cannot be altered. Such as the thickness of bars in bar charts and thickness of circle in donut chart. How would you rate this limitations in Kibana?** *

   Markera endast en oval.

   - ◯ Bothers me very much
   - ◯ Bothers me a little
   - ◯ Doesn't bother me
   - ◯ Don't know

4. **Limitation 2 in Kibana: Font. The text in the headers in UI - elements are not editable regarding size, style and font-family. However there are elements in which you can specify font-size and make the text bold. How would you rate this limitations in Kibana?** *

   Markera endast en oval.

   - ◯ Bothers me very much
   - ◯ Bothers me a little
   - ◯ Doesn't bother me
   - ◯ Don't know

5. **Limitation 3 in Kibana: Distribution of UI-elements. You can place the element in whatever order you want but you are not entirely free with the size of the UI-elements because Kibana tries to fill the entire dashboad without gaps/spaces. How would you rate this limitations in Kibana?** *

   Markera endast en oval.

   - ◯ Bothers me very much
   - ◯ Bothers me a little
   - ◯ Doesn't bother me
   - ◯ Don't know

6. **Creating a dashboard in Kibana offers the possibility to embed the dashboard in a website by using HTML. By doing that you would be able to customize you dashboard and change headers, distribution, creating tabs and more. How would you rate this feature in Kibana?** *

Markera endast en oval per rad.

	Very complicated	complicated	Okay	Useful	Very useful	Don't know
Embed dashboard in website	◯	◯	◯	◯	◯	◯

7. **You can present data from a specific time interval in Kibana, which you can to set. You can also specify an update rate which can be values from five seconds to one day. When presenting streaming date how would you rate this limitation?** *

Markera endast en oval.

- ◯ Very poor
- ◯ Poor
- ◯ Fair
- ◯ Good
- ◯ Very good
- ◯ Don't know
- ◯ Övrigt: _____

8. **Kibana has a intuitive development environment. That means when another developer/designer will take over a dashboard it will be easy to understand how everything works. How would you rate this ability?** *

Markera endast en oval.

- ◯ Very poor
- ◯ Poor
- ◯ Fair
- ◯ Good
- ◯ Very good
- ◯ Don't know
- ◯ Övrigt: _____

9. **In order to enable visualisation in Kibana, the back-end has to be completed first so that the data are available. How do you think this would affect the design process?** *

Markera endast en oval.

- ◯ Very negative
- ◯ Negative
- ◯ No effect
- ◯ Positive
- ◯ Very positive
- ◯ Don't know
- ◯ Övrigt: _____

10. **When using Kibana all elements in a dashboard are synchronised and adjust to your filtering. How would you rate this ability?** *

Markera endast en oval.

- ◯ Very negative
- ◯ Negative
- ◯ No effect
- ◯ Positive
- ◯ Very positive
- ◯ Don't know
- ◯ Övrigt: _____

11. **When using Kibana you create UI-elements for your dashboard and you can reuse these UI-elements. How would you rate this ability?** *

Markera endast en oval.

- ◯ Very negative
- ◯ Negative
- ◯ No effect
- ◯ Positive
- ◯ Very positive
- ◯ Don't know
- ◯ Övrigt: _____

12. **If you have any other comments regarding the UX-design process when using Kibana - Please fill them in bellow.**