

7 Design Tips for Pixel-Perfect Operational Reports



Introduction

In a data-driven world, high-precision reports have become an essential requirement of better business decision-making. That's why pixel-perfect operational reporting has become an essential feature of modern analytics software. Pixel-perfect reports support complex formatting requirements by letting you control every component down to the individual pixel level. They present complex data using charts, tables, and diagrams—all delivered in precise layouts that are easy to comprehend.

On a pixel-perfect operational report, everything needs to be in the right place. One small mistake and it could fail to accurately convey critical information. Pixel-perfect operational reports are ideal when you need a precise layout that can scale to handle large amounts of data and support formats including browsers, PDF, and print.

However, access to pixel-perfect reporting technology does not guarantee your report will look beautiful when you're done. For optimal results, keep these 7 design best practices in mind.



1 Start With a Strategy

Before you start to design your pixel-perfect operational report, spend some time creating a design strategy.

You need to take all use cases and possibilities into consideration.

The high-precision, front-end templates you create for your pixel-perfect reports should be able to be:

- › Populated with both small and large datasets
- › Rendered in different browsers
- › Exported as PDF (and other portable formats if necessary)
- › Added to emails and newsletters
- › Printed in high-quality portrait and landscape orientations

To create an effective design strategy, list all scenarios in which your customers might need operational reporting. Consider all report formats, filtering and exporting options, data sets, screen sizes, and device types. You need to design pixel-perfect templates that adapt to all these use cases.

Export Formats



(and more)

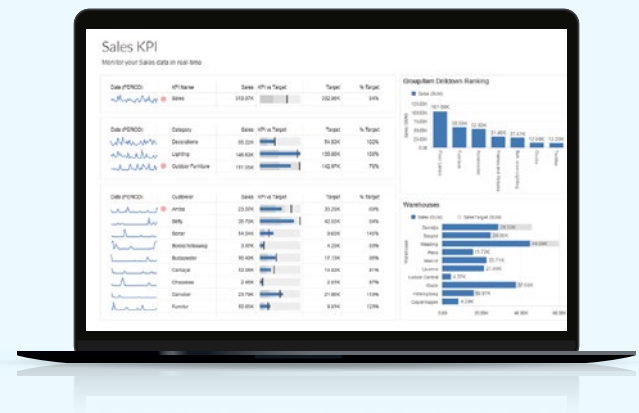
Distribution



2 Calculate Precise Positions and Spatial Dimensions

Pixel-perfect reporting is quite different from other web design projects. Because they often need to be exported to PDF and printed, pixel-perfect reports are not responsive but static. You need to focus on the precise placement of elements such as labels, images, and text snippets on the page.

As a best practice, think of pixel-perfect reports as maps where every object has a fixed position. Set up the X and Y locations of each component on the page and specify their width and height as well. Since pixel-



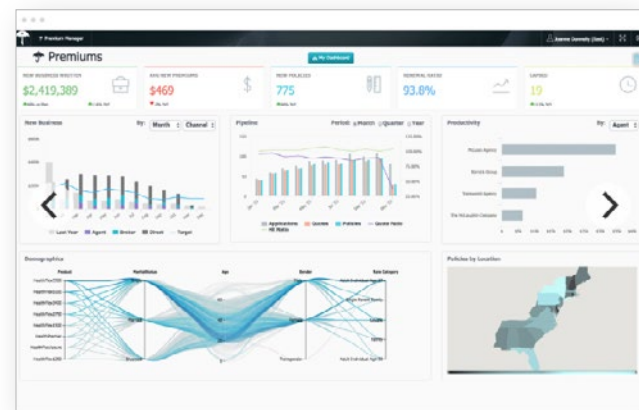
perfect reports are usually not responsive, you should always use absolute CSS units such as pixels, inches, and centimeters. Avoid static positioning as it can lead to errors when the user runs the report with different amounts of data. Bind elements to each other by defining their relative positions with CSS.

When you use newer CSS techniques, don't forget to check browser support and apply fallbacks where necessary. If a browser can't properly render the report, users won't be able to accurately print or export it as PDF, either.

3 Maintain Brand Consistency

Your operational reports should be part of your broader branding strategy, so they need to have the same look and feel as the rest of the application. Make sure design elements such as colors, fonts, icons, and labels match your overall brand appearance. If you have a style guide, apply the same rules to your pixel-perfect reports as you do the rest of your brand's assets.

Besides the look and feel of components, also pay attention to the layout of the report. For

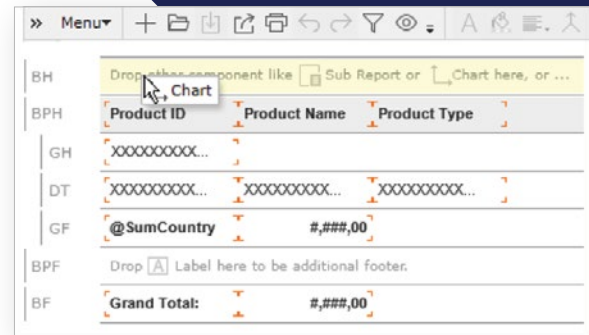
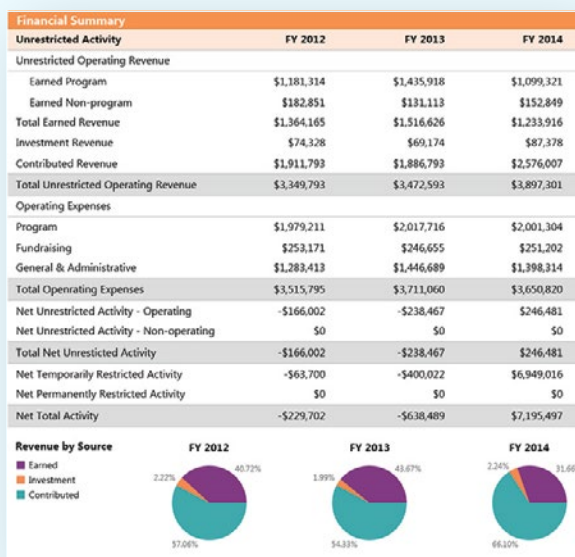


example, if labels are displayed in a specific order on your interactive dashboards, they should follow the same order in the report. As a rule of thumb, your reports should deliver the same user experience as your entire application.

4 Reuse Components

Most organizations will create more than one pixel-perfect report over time. Some pixel-perfect reporting solutions will make the reporting process more scalable by allowing you to reuse frequently used components, including header sections with your company logo, footers with your contact information, or even commonly used data connections. Reusing pieces across various reports means you can quickly scale to meet new requirements.

Reusing components also saves you maintenance time. If you want to change the look and feel of a component, you only need to adjust the design once instead of multiple times. It's also a good idea to establish a naming convention for your report and the reusable components within it. This way, your report hierarchy will be consistent and you can easily find the templates you need.



5 Use a Limited Dataset During Design

When designing a pixel-perfect report, the goal is to create a template rather than a final report.

That's why it's usually easier to work with a small dataset or even no data at all.

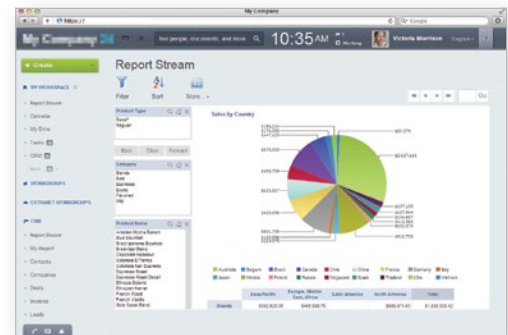
If you work with too much data in the design phase, the report might get very long while still being under construction. As a result, it won't be easy to calculate the relative position of objects on the page. To reduce design errors, first create the backbone of the template using a limited dataset.

Then test it with different amounts of data and adjust the elements as necessary. By creating a template, you can ensure your pixel-perfect report will accurately display both large and small sets of data.

6 Don't Manually Adjust Components

In pixel-perfect reporting, everything needs to be **precisely placed**. Avoid moving objects by hand when you want to adjust them, as manual movements are subject to human error. To keep the layout pixel-perfect, make use of property controls instead.

Most report design tools come with a report inspector that allows you to directly adjust properties. Many even let you move multiple objects



7 Pay Attention To Print Quality

Printing on paper is probably the most common use case of operational reporting. To increase print quality, create specific print styles. You can either use a separate print.css file or add a print media query to your regular CSS.

Since many customers will print their reports in black and white, always use a high contrast color scheme. This is especially important when colors convey meaning, for instance, in a pie chart. You can also apply CSS filters to increase contrast or otherwise adjust colors.

Don't forget to hide unnecessary elements that make no sense in print, such as links and background images. Check that no charts or other data visualizations span across multiple pages, as customers won't be able to make sense of them. Test your print styles in both portrait and landscape orientations as well.

Wrapping Up

Operational reporting is a popular analytics functionality, especially for application teams that need precise control over layouts. Pixel-perfect operational reports let you calculate and position every element with a high level of accuracy.

Keep best practices in mind when designing pixel-perfect reports, so you can create high-precision templates that handle many different formats and data sets. Carefully designed reports can get you ahead of the competition and take user experience to the next level.

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