ibi Summit 2026

Build It: Custom Themes from Reports to Portals

Alex Homer, Product Manager, ibi



© Copyright 2026 Cloud Software Group, Inc.

Confidentiality & Disclaimer

The information in this document is confidential information of Cloud Software Group, Inc. and/or its affiliates. Use, duplication, transmission, or republication for any purpose without the prior written consent of Cloud Software Group, Inc. is expressly prohibited.

This document (including, without limitation, any product roadmap or statement of direction data) illustrates the planned testing, release and availability dates for Cloud Software Group, Inc. products and services. This document is provided for informational purposes only and its contents are subject to change without notice. Cloud Software Group, Inc. makes no warranties, express or implied, in or relating to this document or any information in it, including, without limitation, that this document, or any information in it, is error-free or meets any conditions of merchantability or fitness for a particular purpose.

The material provided is for informational purposes only, and should not be relied on in making a purchasing decision. The information is not a commitment, promise or legal obligation to deliver any material, code, or functionality. The development, release, and timing of any features or functionality described for our products remains at our sole discretion.

During the course of this presentation, Cloud Software Group, Inc. or its representatives may make forward-looking statements regarding future events Cloud Software Group, Inc.'s future results or our future financial performance. These statements are based on management's current expectations. Although we believe that the expectations reflected in the forward-looking statements contained in this presentation are reasonable, these expectations or any such forward-looking statements could prove to be incorrect and actual results or financial performance could differ materially from those stated herein. Cloud Software Group, Inc. does not undertake to update any forward-looking statement that may be made from time to time or on its behalf.

© Copyright 2024 Cloud Software Group, Inc.

Session Agenda

- **Custom Themes in Charts and Reports**
  - Using themes in Designer charts and reports
- **Custom Themes in Designer Pages**
- **Applying custom CSS in a page**
- **Dark mode theme considerations**



© Copyright 2026 Cloud Software Group, Inc.

Part I

Chart and Report Themes (.sty)



© Copyright 2026 Cloud Software Group, Inc.

How StyleSheet Themes Work

- WebFOCUS Charts and Reports can be styled via a StyleSheet (.sty) file
- The StyleSheet file is referenced using an INCLUDE in a procedure
- Write report styling properties under the *TABLE_STYLE block, and chart styling under the *GRAPH_JS section of the same .sty file
- The properties you include are applied to whatever report or chart uses the theme
- When used in Designer, the UI will show the default styling based on the theme
- When a .sty file is in a folder together with a page .css file, both called theme, then when you apply a theme to a page, the associated theme.sty file gets applied to content in the page automatically

© Copyright 2026 Cloud Software Group, Inc.

Report Styling Considerations

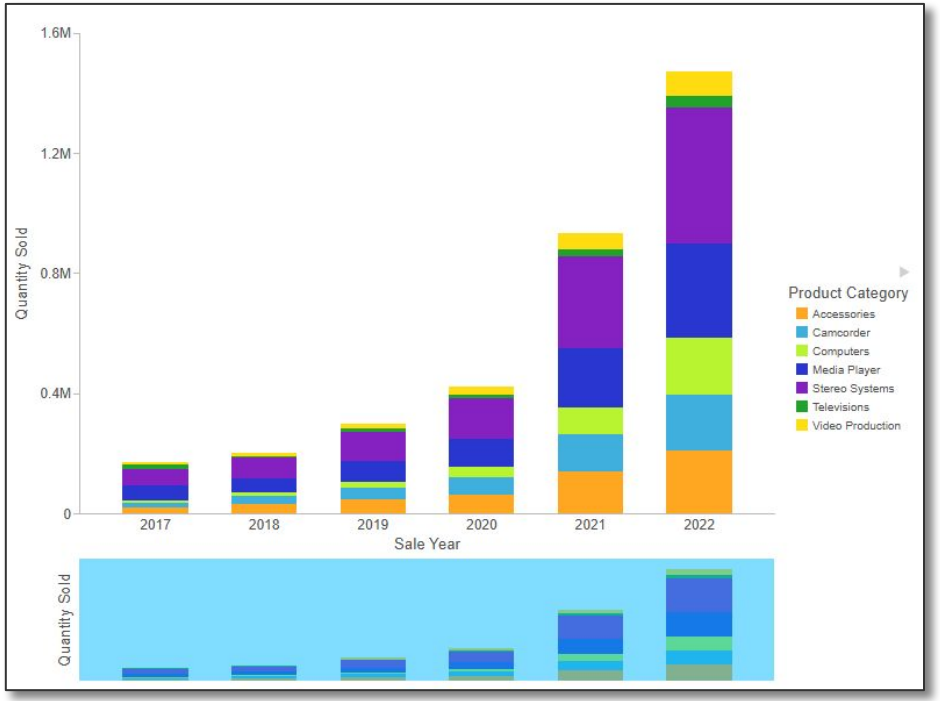
- Consider applying different styling to some key areas of the report:
  - The whole report
  - Heading
  - Data
  - Totals (SUBTOTAL, GRANDTOTAL, etc.)
- GRID=OFF can be used to turn off cell borders
  - Applying gridlines to only the top and bottom can be easier to read
- You can apply bands to the data, or keep all rows the same color. Subtle bands can make it easier to read the report

Sale Year	Product Category	Quantity Sold	Revenue
2017	Accessories	20,152	$5,039,297.57
	Camcorder	17,722	$5,878,431.53
	Computers	6,730	$1,441,835.19
	Media Player	50,966	$14,980,578.35
	Stereo Systems	53,407	$12,874,817.73
	Televisions	16,405	$6,481,217.67
	Video Production	8,035	$2,268,891.17
2018	Accessories	31,396	$7,860,068.93
	Camcorder	28,485	$9,673,248.16
	Computers	12,239	$2,479,491.58
	Media Player	47,132	$15,132,531.21
	Stereo Systems	67,344	$17,696,520.11
	Televisions	5,807	$4,737,939.16
	Video Production	12,212	$3,561,163.82
2019	Accessories	46,735	$11,820,675.96
	Camcorder	41,250	$13,971,708.11
	Computers	19,820	$4,170,749.59
	Media Player	66,307	$21,404,087.38
	Stereo Systems	100,263	$26,195,419.83
	Televisions	8,371	$6,858,693.71
	Video Production	17,932	$5,140,260.82
2020	Accessories	63,836	$16,060,415.69
	Camcorder	56,782	$19,438,607.89
	Computers	34,626	$7,857,928.55
	Media Player	92,435	$30,105,200.05

© Copyright 2026 Cloud Software Group, Inc.

Chart Styling Considerations

- WebFOCUS charts use a JSON formatting syntax
- You can specify multiple series colors, or use a preset interpolation option to define the colors of each riser
- Different chart types have some unique options that you may wish to account for
- Other areas that you may wish to style include:
  - The legend
  - Axes
  - Tooltips
  - Scrollbar
  - Chart header



© Copyright 2026 Cloud Software Group, Inc.

Frequently Used WebFOCUS Page CSS

Page Title label font	.pd-page {font: *style size fontname*}
Page Title label text color	.pd-page-header {color: }
Page Title bar background	.pd-page-header {background-color: }
Container title label font	.pd-container {font: *style size fontname*}
Container title label text color	.pd-container {color: }
Container title bar background	.pd-container-title-bar {color: }
Container content background	.pd-container {background-color: }
Page background color	.pd-page
Toolbar Menu background color	.ibx-menu {background-color: }
Toolbar Menu font color	.ibx-menu-item * {color: }
Toolbar Menu font	.ibx-menu {font: style size fontname}
Toolbar Menu hover font color	.ibx-menu-item:hover {color:}
Toolbar Menu hover background color	.ibx-menu-item:hover {background-color:}
Filter control background	.pd-regular-filter-wrapper {background-color: }
Filter control text color	.pd-regular-filter-wrapper .pd-amper-label {color: }

© Copyright 2026 Cloud Software Group, Inc.

CSS Basics: Selectors

Selector Type	Example Selector	Specificity Score (ID, Class, Element)	Description
Element	div	(0, 0, 1)	Targets all instances of an HTML tag. Very low priority and easily overridden.
Class	.pd-page	(0, 0, 1)	Standard WebFOCUS container or layout class styling.
ID	#custom-panel-1	(0, 1, 0)	Targets a specific unique component or panel. Outranks any combination of class selectors. However, in a Designer page, most IDs are dynamically generated, so this may not be a reliable method for selection.

© Copyright 2026 Cloud Software Group, Inc.

CSS Basics: Common Combinators

Combinator / Syntax	Example	Name	Description
(Space)	.pd-page .pd-container	Descendant Combinator	Targets .pd-container anywhere inside .pd-page, regardless of how deeply nested it is.
(No Space)	.pd-container.pd-style-color2	Compound / Chained Selector	Targets an element that has **both** classes on the exact same HTML element simultaneously.
Comma (,)	.pd-style-color2, .pd-style-color3	Selector List (Grouping)	Applies the same style rules to multiple independent selectors. (Acts like an "OR").

© Copyright 2026 Cloud Software Group, Inc.

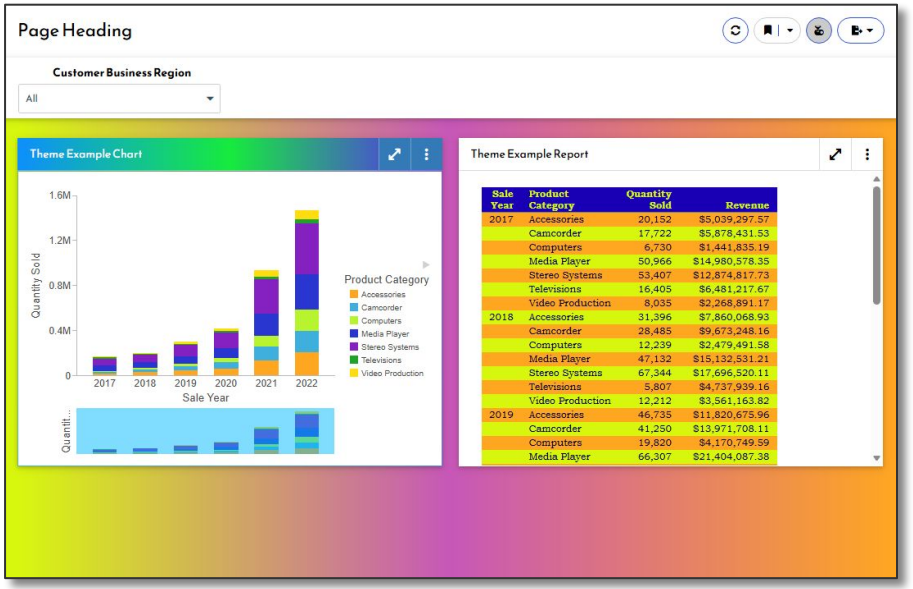
CSS Basics: Combinators continued

Greater Than (>)	.pd-container > .pd-container-title-bar	Child Combinator	Targets .pd-container-title-bar ONLY if it is an **immediate direct child** of .pd-container.
Plus (+)	.pd-container-title-bar + .pd-container-content	Adjacent Sibling Combinator	Targets .pd-container-content if it immediately follows .pd-container-title-bar under the same parent.
Tilde (~)	.pd-filter-label ~ .pd-amper-control	General Sibling Combinator	Targets .pd-amper-control if it comes anywhere after .pd-filter-label under the same parent.
Asterisk (*)	.pd-container *	Universal Selector	Targets **every element** nested inside .pd-container.

© Copyright 2026 Cloud Software Group, Inc.

Applying Themes to Pages

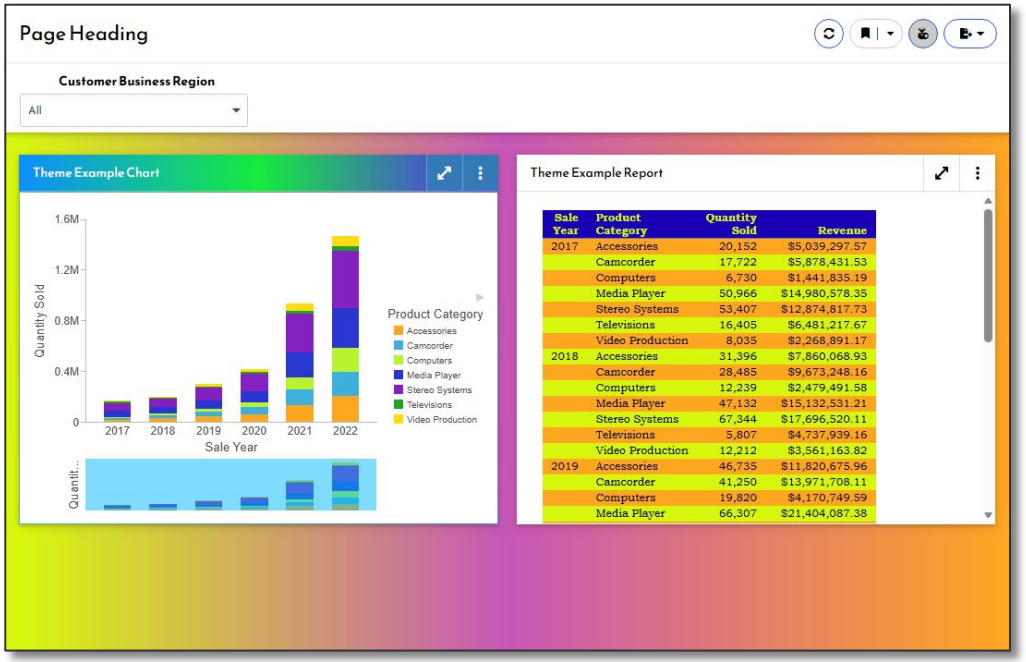
- Designer pages are styled using CSS files
- WebFOCUS includes some sample files, but the best way to see which elements and classes to select is to use the browser DevTools or console
- CSS can apply unpredictably – try to be as specific as possible without limiting the scope of your CSS
- Aspects to consider styling:
  - Fonts at the entire page level
  - Container and page title bars
  - Container and page backgrounds
- Page themes can include multiple different styles, which are selectable for a container in Designer
- Portals use the same theme.css file as a page. You just need to use the portal-specific classes to style them



© Copyright 2026 Cloud Software Group, Inc.

Coordinating themes in WebFOCUS

- WebFOCUS Designer has built in cascading behavior: by default, when a theme is applied to a page, the charts and reports in the page inherit that theme
- Likewise, pages in a portal inherit the theme from the portal
- Create a folder in Global Resources under Themes > Custom, and place the theme.sty and theme.css files in there.
  - The name of this folder is listed as the title of the theme in Designer



Sale Year	Product Category	Quantity Sold	Revenue
2017	Accessories	20,152	$5,039,297.57
	Camcorder	17,722	$5,878,431.53
	Computers	6,730	$1,441,835.19
	Media Player	50,966	$14,980,578.35
	Stereo Systems	53,407	$12,874,817.73
	Televisions	16,405	$6,481,217.67
	Video Production	8,035	$2,268,891.17
2018	Accessories	31,396	$7,860,068.93
	Camcorder	28,485	$9,673,248.16
	Computers	12,239	$2,479,491.58
	Media Player	47,132	$15,132,531.21
	Stereo Systems	67,344	$17,696,520.11
	Televisions	5,807	$4,737,939.16
	Video Production	12,212	$3,561,163.82
2019	Accessories	46,735	$11,820,675.96
	Camcorder	41,250	$13,971,708.11
	Computers	19,820	$4,170,749.59
	Media Player	66,307	$21,404,087.38

© Copyright 2026 Cloud Software Group, Inc.

Creating a dark theme

- Let's see how to configure a dark theme
- Some suggestions:
  - Give charts and reports light text and a transparent background when you want to apply the dark theme to them. When placed in a page, the page background will show through
  - Due to the light text, it may be difficult to read the chart or report when used stand-alone, without the dark page background



© Copyright 2026 Cloud Software Group, Inc.



© Copyright 2024 Cloud Software Group, Inc.