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Solutions for the Real World

Sunkist
Fruit Sorting Software

Sunkist

Sunkist is a leading international supplier of fresh fruit, and the oldest operating citrus cooperative in America, owned by thousands of citrus growers across California and Arizona. Sunkist is a leading international citrus supplier: oranges, lemons, grapefruit, tangerines, mandarins, limes, organic citrus, and more. Although they are a billion dollar a year organization, you can't buy stock-because there isn't any. Why? Because Sunkist is a cooperative - a not-for-profit company. Our members, consisting of California and Arizona citrus growers, have joined forces to produce the high-quality Sunkist fruit you've come to know and love. Sunkist is the oldest continually operating citrus cooperative in America and the largest marketing cooperative in the world's fruit and vegetable industry.

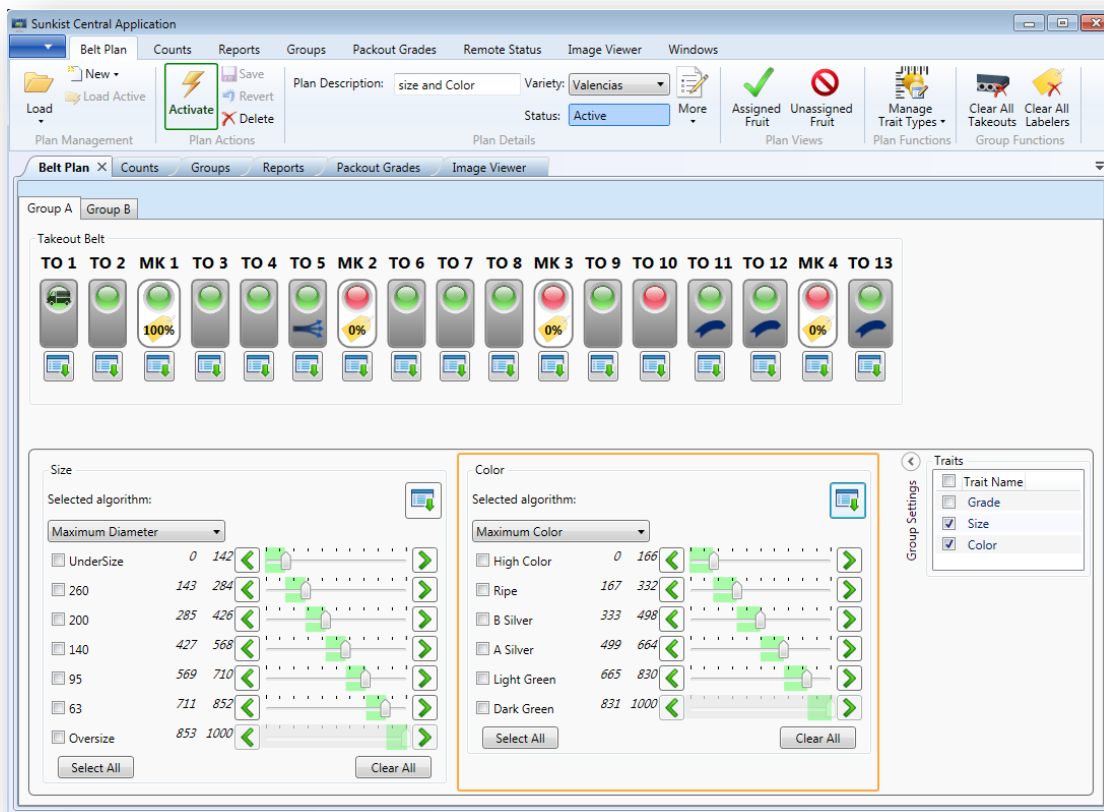
Fruit Sorting Software

How does quality fruit get from the fields to the store? Our client, Sunkist, has a system to do that. However, the systems were written using older technology and the look and feel reflected that. Working with their engineers, we developed a new application that continued with the existing process but improved the user experience.

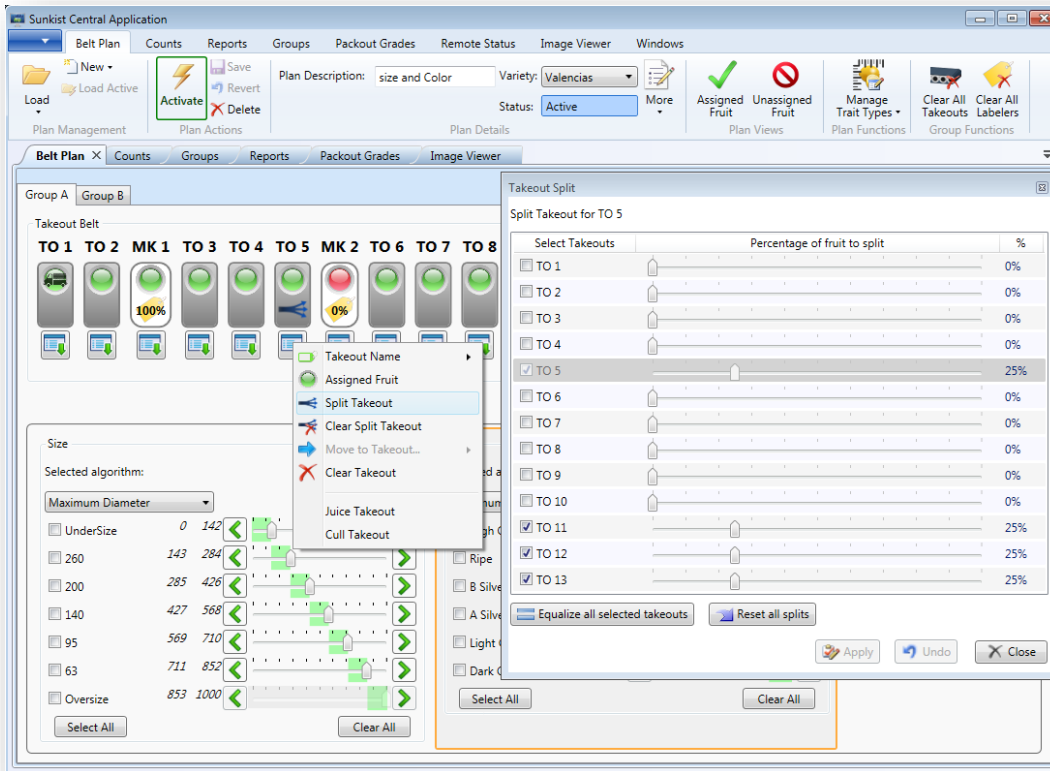


This software communicates with a machine (shown above) that sits out in a packing plant and controls the grading of fruit. Each piece of fruit is weighed, the color checked, blemishes are spotted and other factors are analyzed to determine the “grade” of the fruit. This software allows them to specify where each grade of fruit gets sent further down the line.

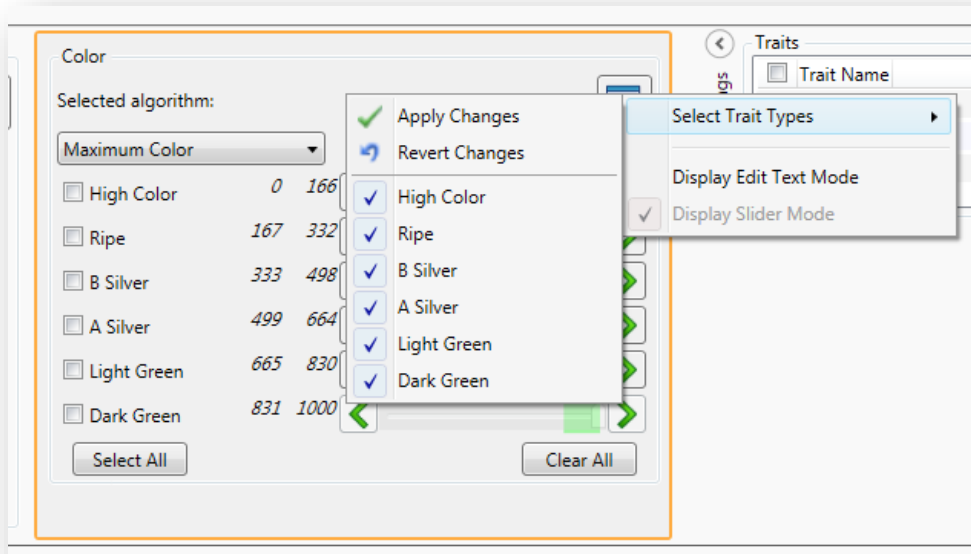
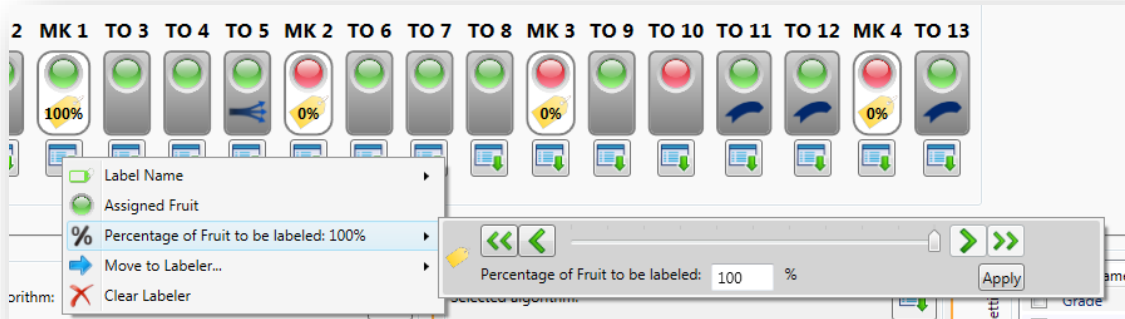
The challenge was to simplify the user interface and give operators an at-a-glance way to specify where grades of fruit were sent. Each of the aisles on the machine are mapped into the software shown below. The operator can then specify for each grade, which aisle the fruit gets sent to.



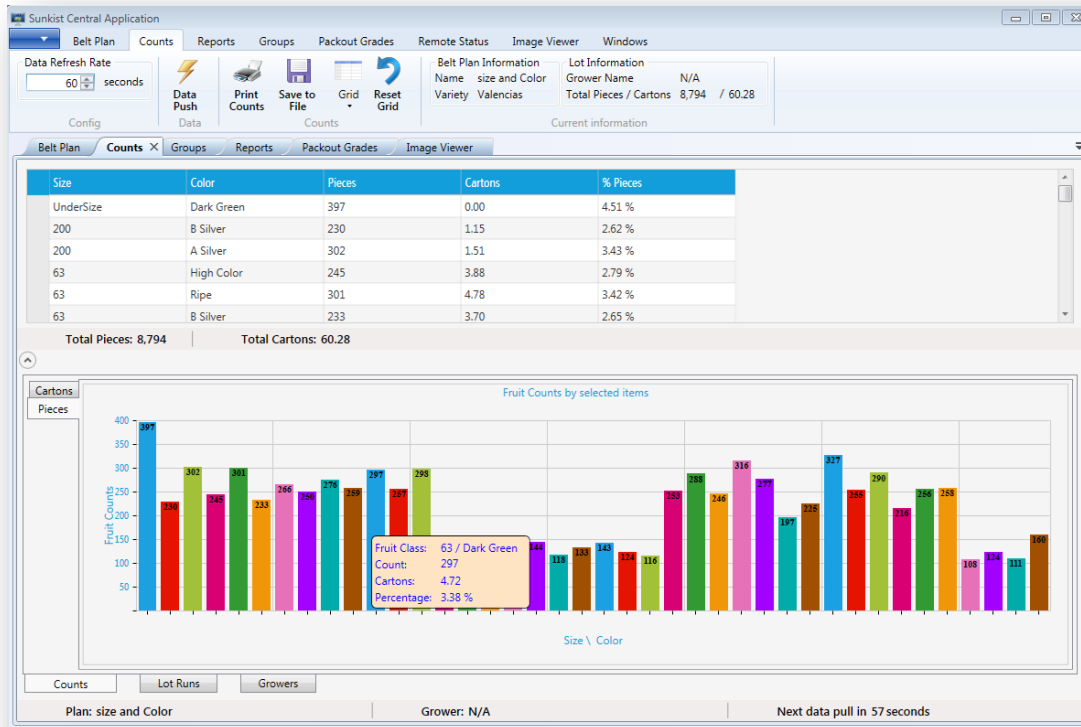
Each of the physical hardware items included a context menu with only the valid actions to control that specify hardware item.



A simple set of menu items is used to simplify the finding and editing of the various fruit grades.



As the fruit moves through the machine and is sorted the counts are displayed allow the user to make adjustments.



Technology Used

Microsoft's Visual Studio

Windows Presentation Foundation (WPF)

C#

MVVM (Model View – View Model)

SyncFusion

Contact Information

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