9.04 Use date card to filter by date

Context

A card that is representing a date column is presented by a timeline chart. This story describes the behaviour of how to make a certain time period filter the rest of the page. This behaviour is the same for the small and the expanded card.

Story

As a user
I want to be able to filter my page on a specific date range
So that I can see only the data I care about

Acceptance Criteria
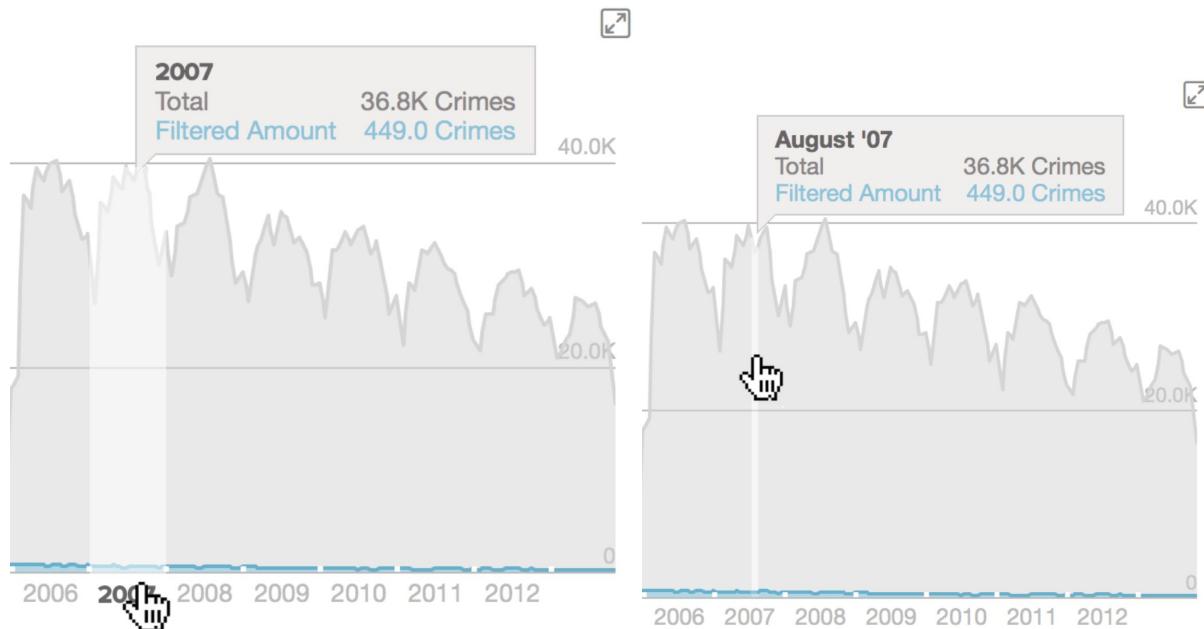
Background
Given I am looking at a date card

Clicking segment filters
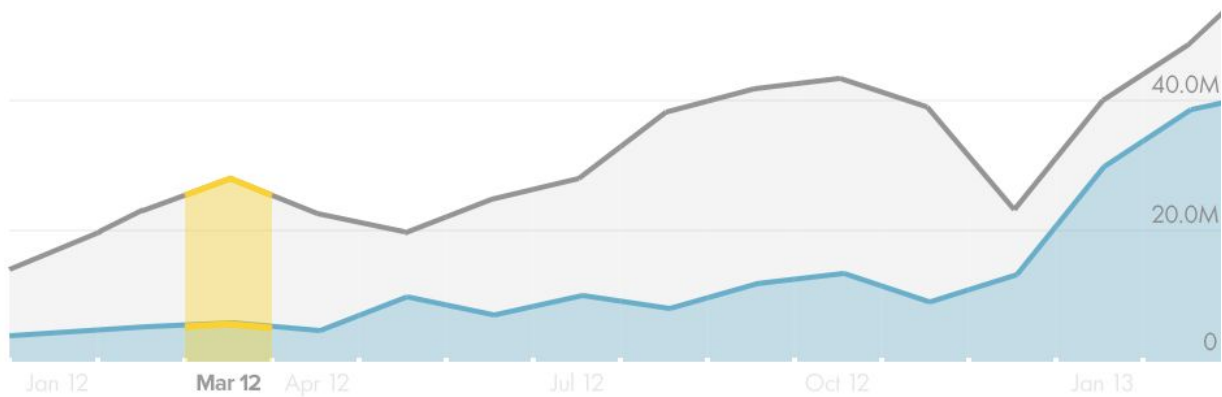When I click on <target>
Then the page should filter by <filter range>
And clear any other filters on the timeline

target	filter range	
the grey area on a filtered chart	the corresponding range	#eg February 2000 on a chart that shows multiple years
the colored area on a timeline	the corresponding range	
the blank space above a timeline	the corresponding range	
the label below the timeline	all ranges that are within those tick marks	#eg the entire year of 2000 on a line chart that is showing multiple years, include blank space around label text

2007
Total   36.8K Crimes
Filtered Amount 449.0 Crimes

August '07
Total   36.8K Crimes
Filtered Amount 449.0 Crimes

Payment Issue Date

The date that a payment was issued to the vendor. A payment might cover many line items across different invoices, possibly even from separate programs within a department.

#Clicking the label gives the entire time period, clicking the chart or space above gives that segment (one level finer than the labels)

Clearing segment
Given I have clicked a small segment and it's selected
Then when I click the segment, the label, or the space above it once more it becomes unselected

The filtered segment should look different
Given I have clicked a <sized> segment on the line chart
And the label for that segment is <state>

Then that segment should highlight
And the other labels should dim
And the label for that segment should <visibility>

sized	state	visibility
label sized	not already visible	appear
label sized	already visible	stay visible
small	not already visible	appear, formatted by small label resolution

Click and drag
When I click and drag horizontally on the <target>
Then all the should highlight
And when I let go
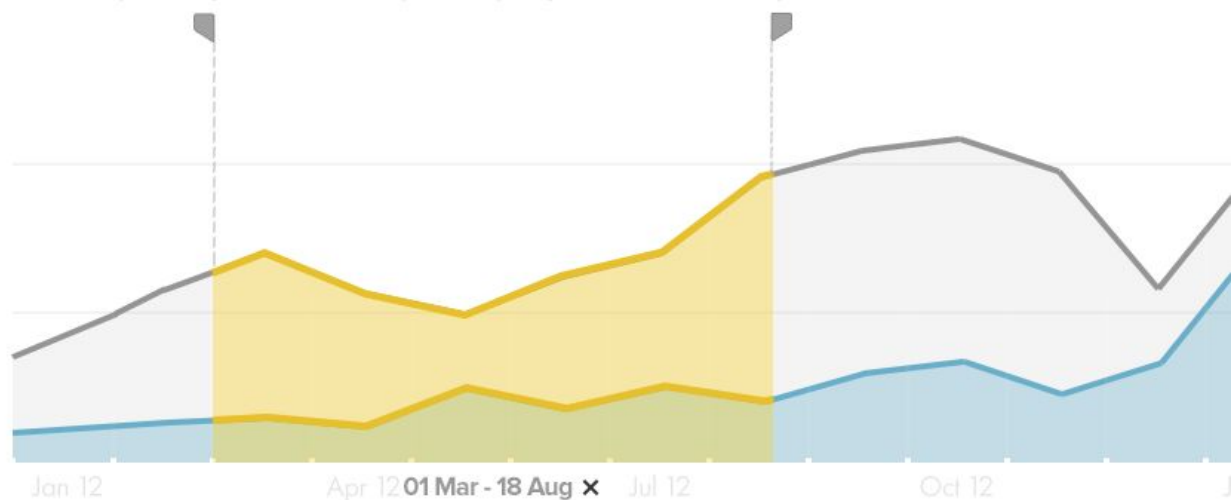Then the data should be filtered by all those segments

target	segment	
line chart area	small segments	
label area	label-sized segments	# eg if the labels express years, then as i drag it should drag by year-sized segments

Highlight labels when click and drag
Given I have dragged and selected multiple segments
Then all labels should be dimmed
And the range should be shown below with a "-" in between the first and the second value
And the values should be formatted by the corresponding resolution
And the range should be centered below the filtered section
But the range text should not run off the side
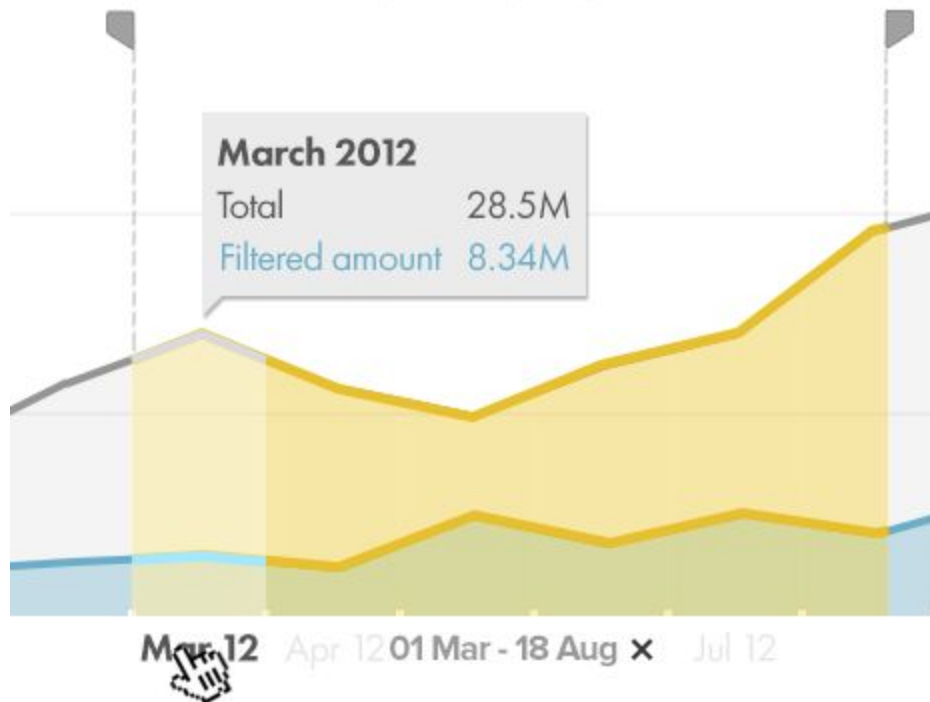And there should be an "x" next to the range text

Clearing a range

Given I have selected a date range by dragging
When I click the "x" next to the range text
Then that range should unselect

Hovering in a filtered range
Given I have selected a date range by dragging
When I hover on a segment in the range
Then that segment in the range should get a highlight and hover exactly as usual

Clicking in a filtered range
Given I have selected a date range by dragging
And the date range is larger than one segment
When I click on a segment in the range
Then the date range should clear
And the chart should filter by the segment

Hover over x
Given I have selected a date range by dragging
When I hover over the "x" next to the range text
Then there should be a flyout saying "Clear filter range"
And my pointer should change to a hand

If my selected range is exactly a small segment or a label-sized segment

Given I have selected a date range by dragging
And that date range is exactly <range>
Then the labels should look like <format>

range	format
one label-sized segment	the regular label
one small segment	a formatted small label

Flyout during click and drag
When I drag horizontally on the chart to select multiple segments
Then a flyout should show up on top and show the range I'm dragging
And it should track the horizontal position of the cursor
And it should track the data vertically where it is

Drag handles should appear
Given I have created a filter range on my line chart
Then two drag handles should appear at the top of that range

Use drag handles
Given I have created a filter range on my line chart
When I drag one of the handles
Or when I drag one of the dotted lines
Or an area within 2 pixels from the line in either direction
Then the range should behave like when I click and drag

Hover over drag handles
Given i have created a filter range on my line chart
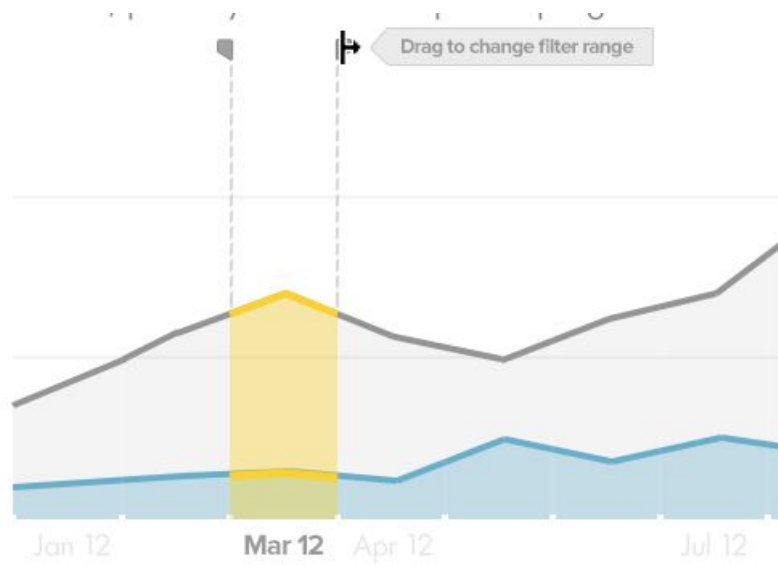When I hover over one of the drag handles
Or one of the dotted lines
Or an area within a few pixels from the line
Then a flyout should appear
And it should say "Drag to change filter range"
And my pointer should change to a "bothways-pointer"

Drag to change filter range

Jan 12   **Mar 12**   Apr 12   Jul 12

Tablet behaviour

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Notes

Any developer notes, sign offs by product, etc. Eg. The D3 library for this may not be sufficient because it lacks limitations on graphing yada yada. May need to explore other graphing libraries