

Scenario

By exploring the relationships between documents from different facets, you can quickly identify unusual correlations and anomalies that require further investigation.

In this scenario, you need to explore the connections between different models of cars to see which models experience the most problems and which problems occur most commonly across all types of cars.

Examples of such negative events might be oil leaks, windshield cracks, blown tires, or vibrations.

Explore Relationships Between Facet Values

The screenshot shows the IBM Content Analytics interface. At the top, the header includes the IBM logo, 'IBM Content Analytics', and 'Collection: NHTSA (change)'. The user is logged in as 'Not I...'. The main navigation bar contains tabs for Documents, Facets, Time Series, Deviations, Trends, Facet Pairs, Connections, Dashboard, and Reports. Below the navigation bar, the status shows 'Results 1-10 of 3000 (575366/575366 results matched)'. A toolbar with various icons is visible. On the left, the 'Facet Navigation' panel is active, showing a filter input and several facet categories: Part of Speech, Phrase Constituent, Named entity, Troubles, Category for Auto, State, City, Vehicle/Equipment Corp, Vehicle/Equipment Make, and Model. The main content area displays a table of document results with columns for Flags, Actions, Source, Date, and ID. A tooltip is overlaid on the table, providing instructions on how to use the 'Connections' view to explore relationships between documents.

Flags	Actions	Source	Date	ID	Thumbnail
2					38
CAR LEAKS ON PASSENGER SIDE. N					
2					
WHILE TRAVELING AT NORMAL SPEE STALLED. DEALER HAS BEEN CONTA INFORMATION. *AK					
1					
ABS SYSTEM FAILED. THIS IS A RECALL ITEM AND OWNER WANTS TO BE REIMBURSED FOR EXPENSES ON BRAKE SYSTEM REPAIR.					
		ica	8/4/97	91540	
ENGINE HOSES FAILED.					
		ica	8/4/97	91541	

When you first start the text miner application, the Documents view shows all documents that are available to be explored.

To limit the results and compare relationships between the documents, click the **Connections** tab to open the Connections view.

Explore Relationships Between Facet Values

The screenshot displays the IBM Content Analytics interface. At the top, the IBM logo and 'IBM Content Analytics' are visible, along with the collection name 'Collection: NHT...' and user information 'Logged in as: Not I...'. The main navigation bar includes tabs for Documents, Facets, Time Series, Deviations, Trends, Facet Pairs, Connections, Dashboard, and Reports. Below this, a status bar indicates '575366/575366 results matched'. The 'Facet Navigation' section on the left lists various facets with radio buttons for selection. The 'Facet 1 shows' and 'Facet 2 shows' sections are set to 'Keywords'. The 'Node labels' are set to 'Truncated', and the 'Highlight mode' is set to 'No highlighting'. A yellow callout box points to the innermost radio button for the 'Model' facet, with the text: 'Select the inner-most radio button for the first facet that you want to explore: Model'.

Facet Navigation: Default order

Filter: Clear

Part of Speech ²

Phrase Constituent ²

Named entity ²

Troubles

Category for Auto

State

City

Vehicle/Equipment Corp

Vehicle/Equipment Make

Model

Model Year

Component Description

Date of Manufacture

Facet 1 shows: Keywords Node labels: Truncated Correlation:

Facet 2 shows: Keywords Highlight mode: No highlighting

Select the inner-most radio button for the first facet that you want to explore: Model

Explore Relationships Between Facet Values

The screenshot displays the IBM Content Analytics interface. At the top, the IBM logo and 'IBM Content Analytics' are visible on the left, and 'Collection: NHT... (change)' and 'Logged in as: Not I...' are on the right. Below the header is a navigation bar with tabs for Documents, Facets, Time Series, Deviations, Trends, Facet Pairs, Connections, Dashboard, and Reports. A status bar indicates '575366/575366 results matched'. The main interface is divided into two panels. The left panel, titled 'Facet Navigation', shows a 'Filter:' input field with a 'Clear' button and a list of facets with radio buttons. The 'Model' facet is currently selected. The right panel contains controls for 'Facet 1 shows' (Keywords), 'Facet 2 shows' (Keywords), 'Node labels' (Truncated), 'Highlight mode' (No highlighting), and a 'Correlation' slider. Below these controls are several icons for navigation and search.

IBM Content Analytics

Collection: NHT... (change) | Logged in as: Not I... | Preferences | My Profile | Help | About

Documents | Facets | Time Series | Deviations | Trends | Facet Pairs | Connections | Dashboard | Reports

575366/575366 results matched

Facet Navigation | Default order

Filter: Clear

- Part of Speech ²
- Phrase Constituent ²
- Named entity ²
- Troubles
- Category for Auto
- State
- City
- Vehicle/Equipment Corp
- Vehicle/Equipment Make
- Model**
- Model Year
- Component Description
- Date of Manufacture

Facet 1 shows: Keywords | Node labels: Truncated | Correlation:

Facet 2 shows: Keywords | Highlight mode: No highlighting

Navigation icons: Play, Stop, Search, Zoom In, Zoom Out

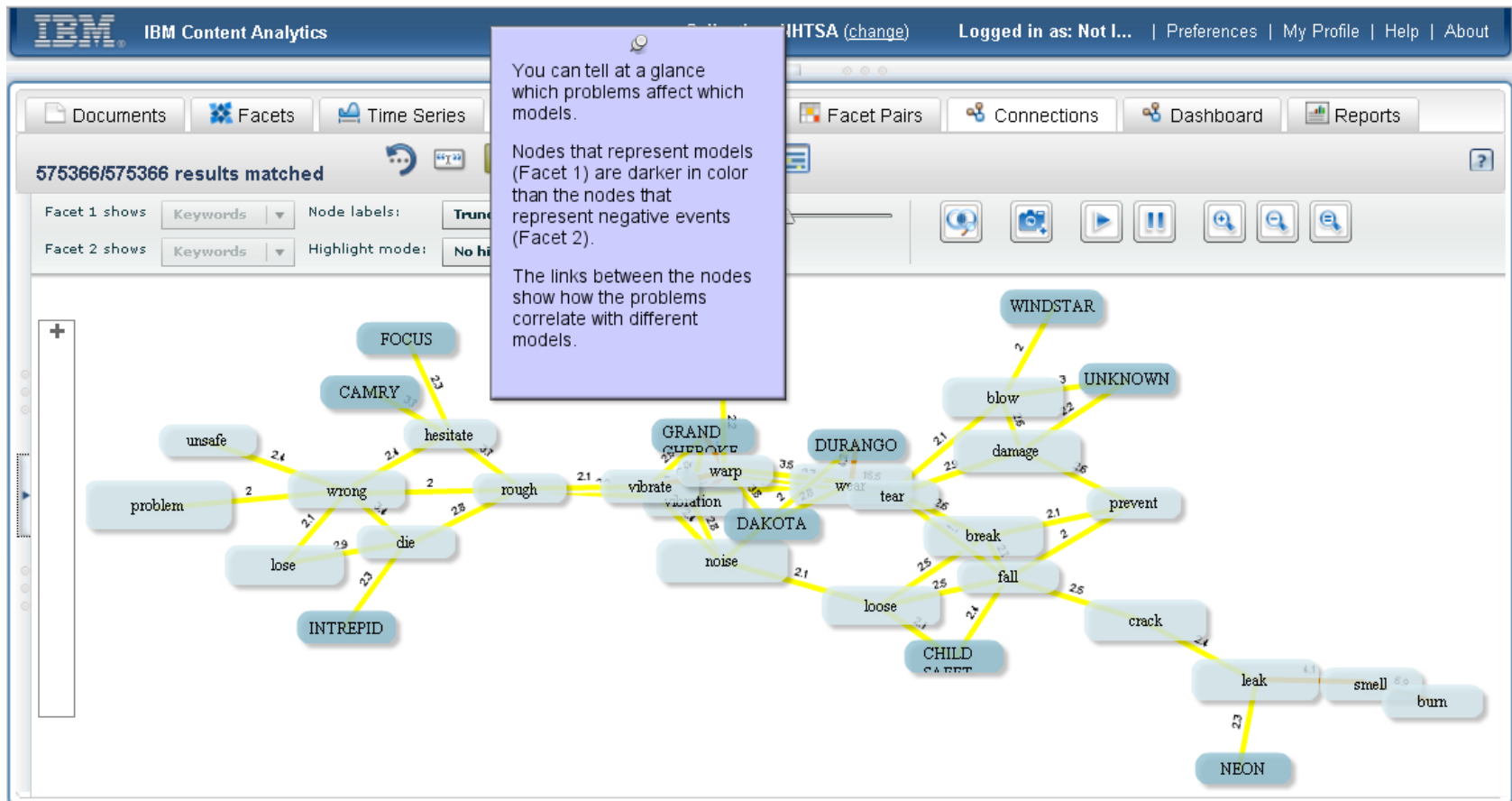
Explore Relationships Between Facet Values

The screenshot displays the IBM Content Analytics interface. At the top, the header shows 'Collection: NHTSA (change)' and 'Logged in as: Not I...'. Below the header, a navigation bar includes tabs for Documents, Facets, Time Series, Deviations, Trends, Facet Pairs, Connections, Dashboard, and Reports. The main content area shows '575366/575366 results matched'. On the left, the 'Facet Navigation' panel is visible, with a 'Filter' section and a list of facets including 'Part of Speech', 'Phrase Constituent', 'Named entity', 'Troubles', 'Negative event', 'Negative item', 'Negative pattern', 'Category for Auto', 'State', 'City', and 'Vehicle/Equipment Corp.'. The 'Negative event' facet is selected. A yellow callout box points to this selection, containing the text: 'To explore the relationship between the first facet, Model, and any reported negative events, expand the Troubles section and select the outer-most radio button next to the Negative event facet. A diagram that shows the connections between each model of car and its respective problems.' The main area displays a network diagram with nodes representing car models (e.g., FOCUS, CAMRY, CHEROKEE, GRAND CHEROKEE, DURANGO, WINDSTAR, UNKNOWN, DAKOTA, INTREPID) and negative events (e.g., unsafe, hesitate, wrong, problem, die, lose, noise, loose, crack, tear, break, prevent, damage, blow, smell). The nodes are connected by lines representing relationships, with some lines labeled with numerical values. A 'Key' section on the left of the diagram indicates that 'Rows = Model' and 'Columns = Negative event'.

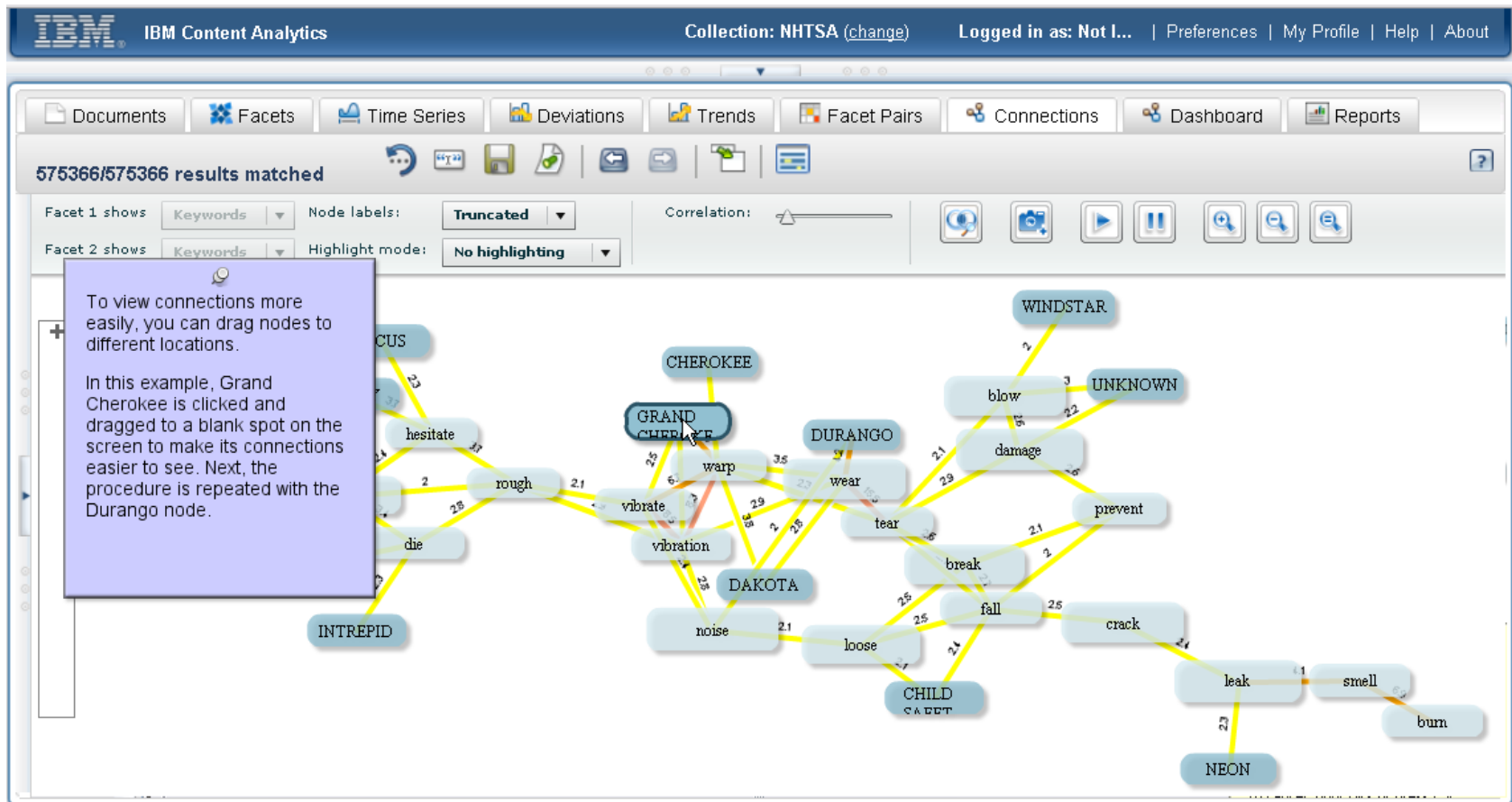
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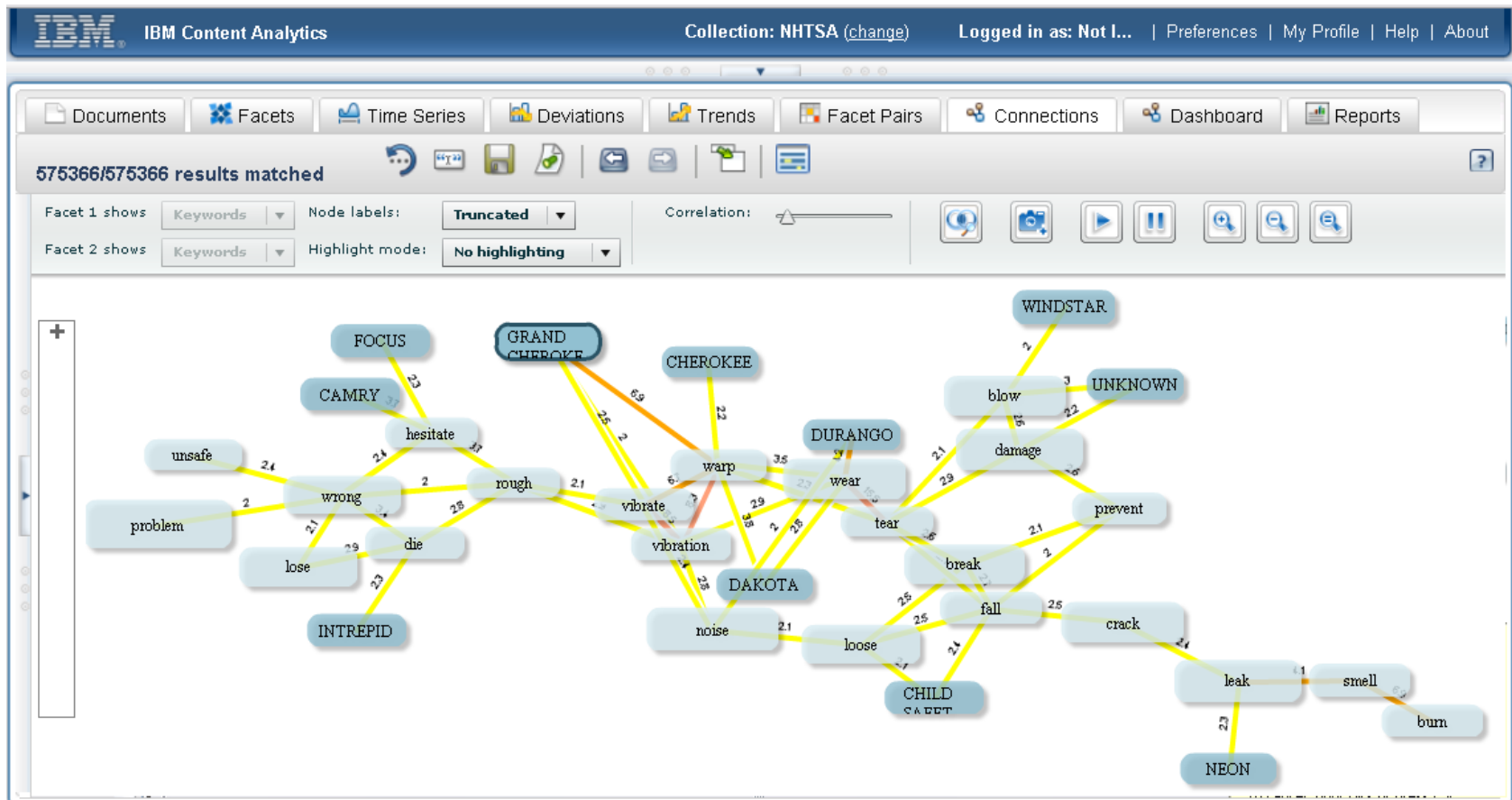
Explore Relationships Between Facet Values



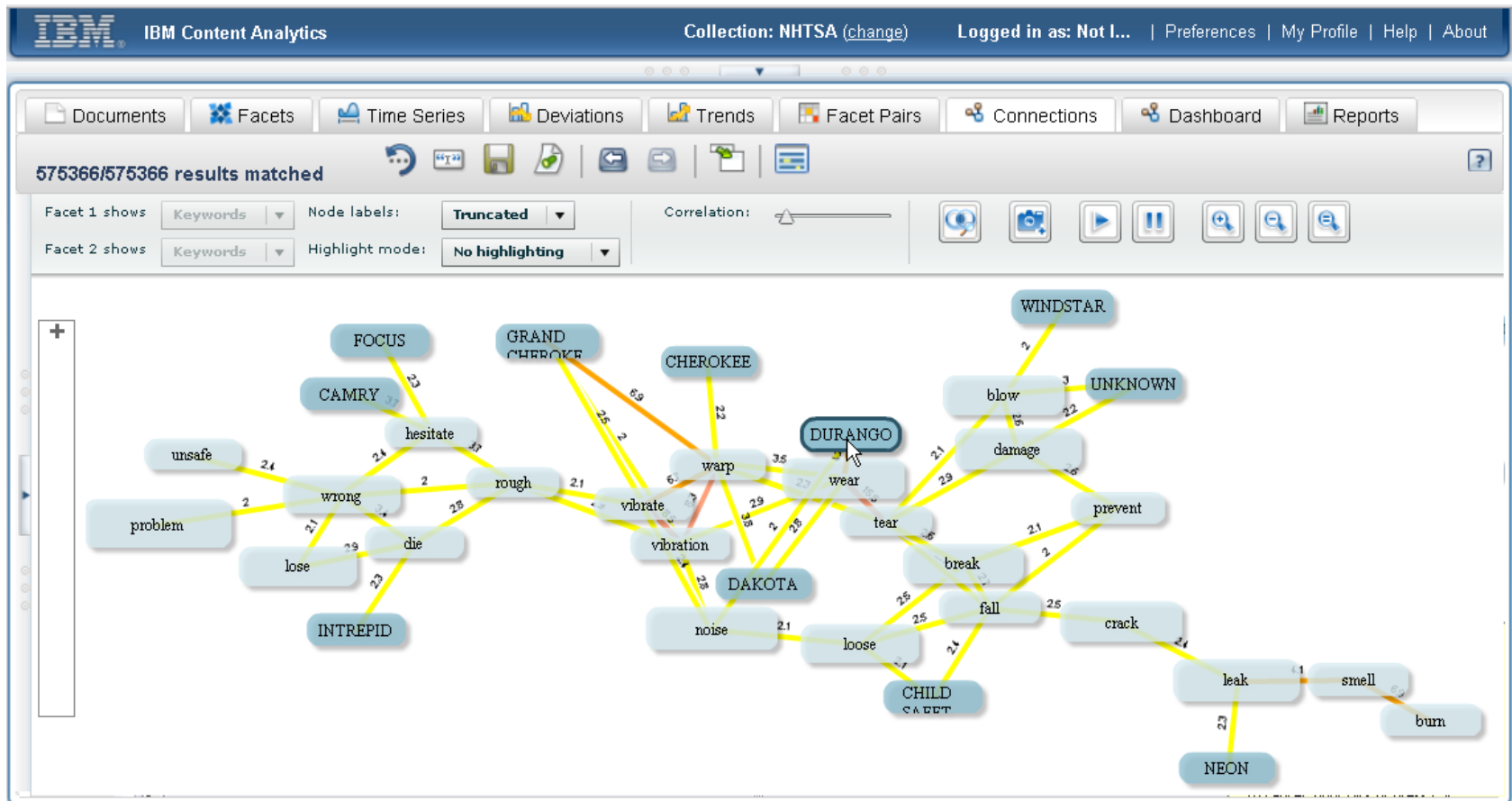
Explore Relationships Between Facet Values



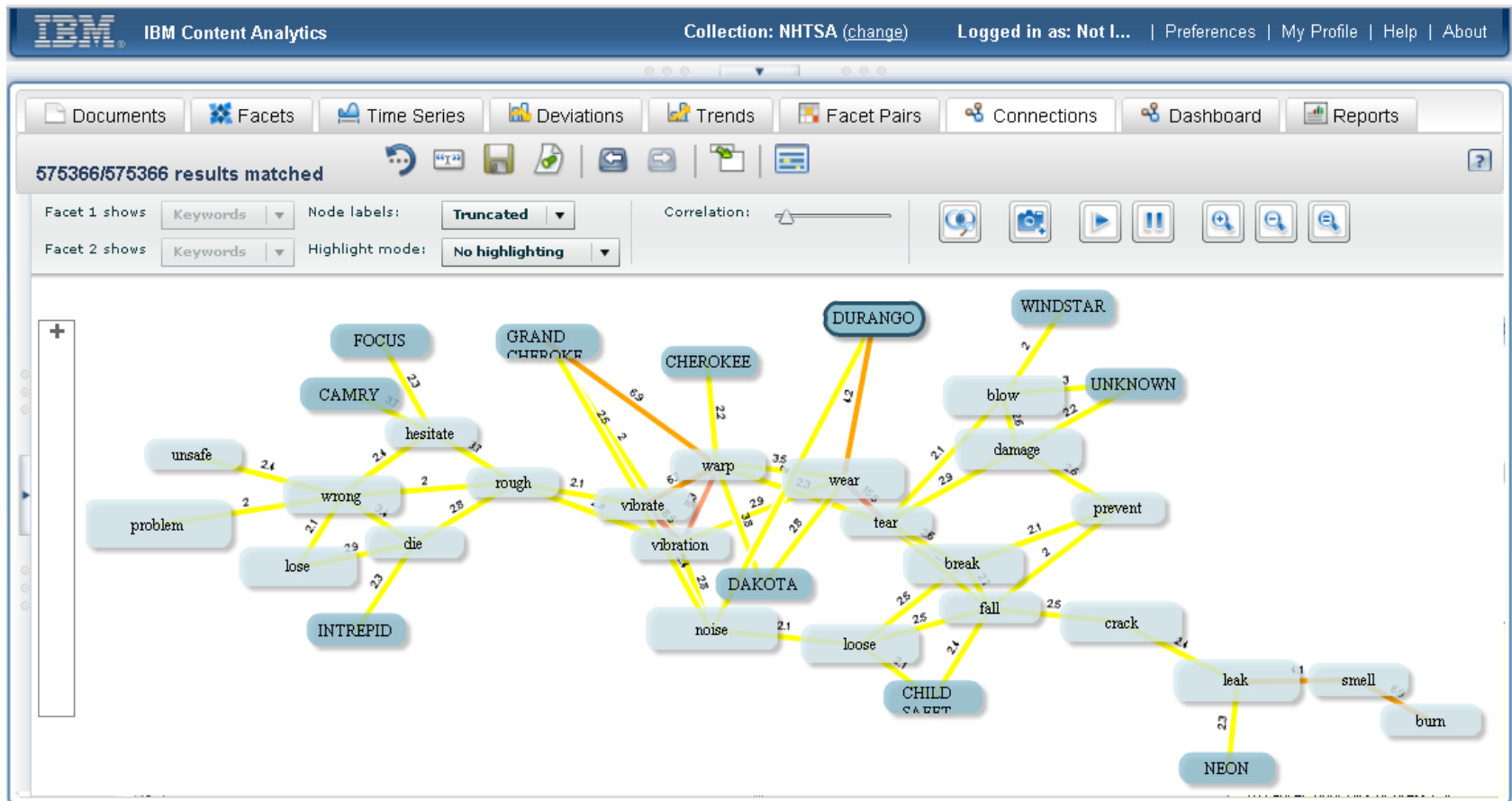
Explore Relationships Between Facet Values



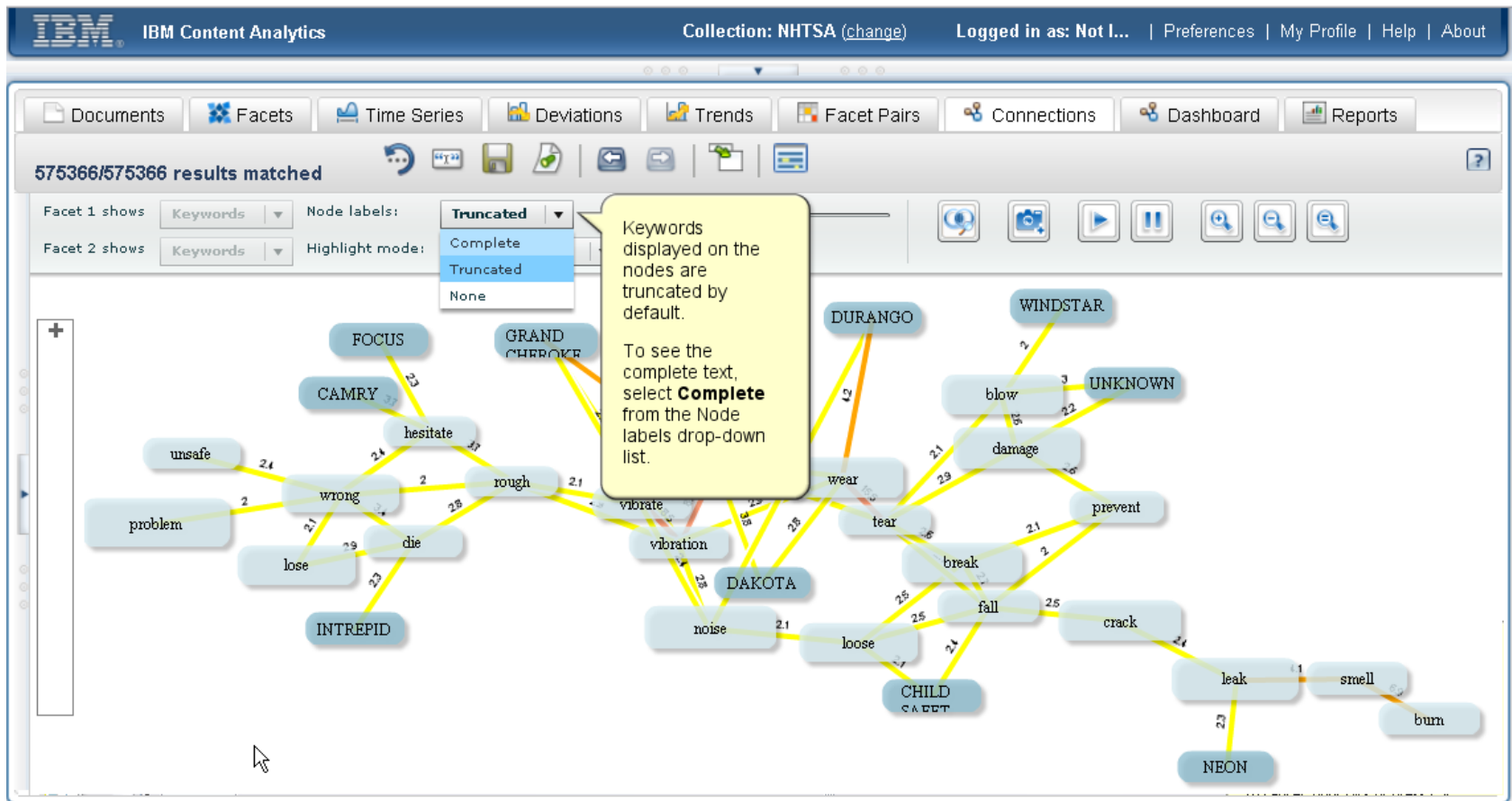
Explore Relationships Between Facet Values



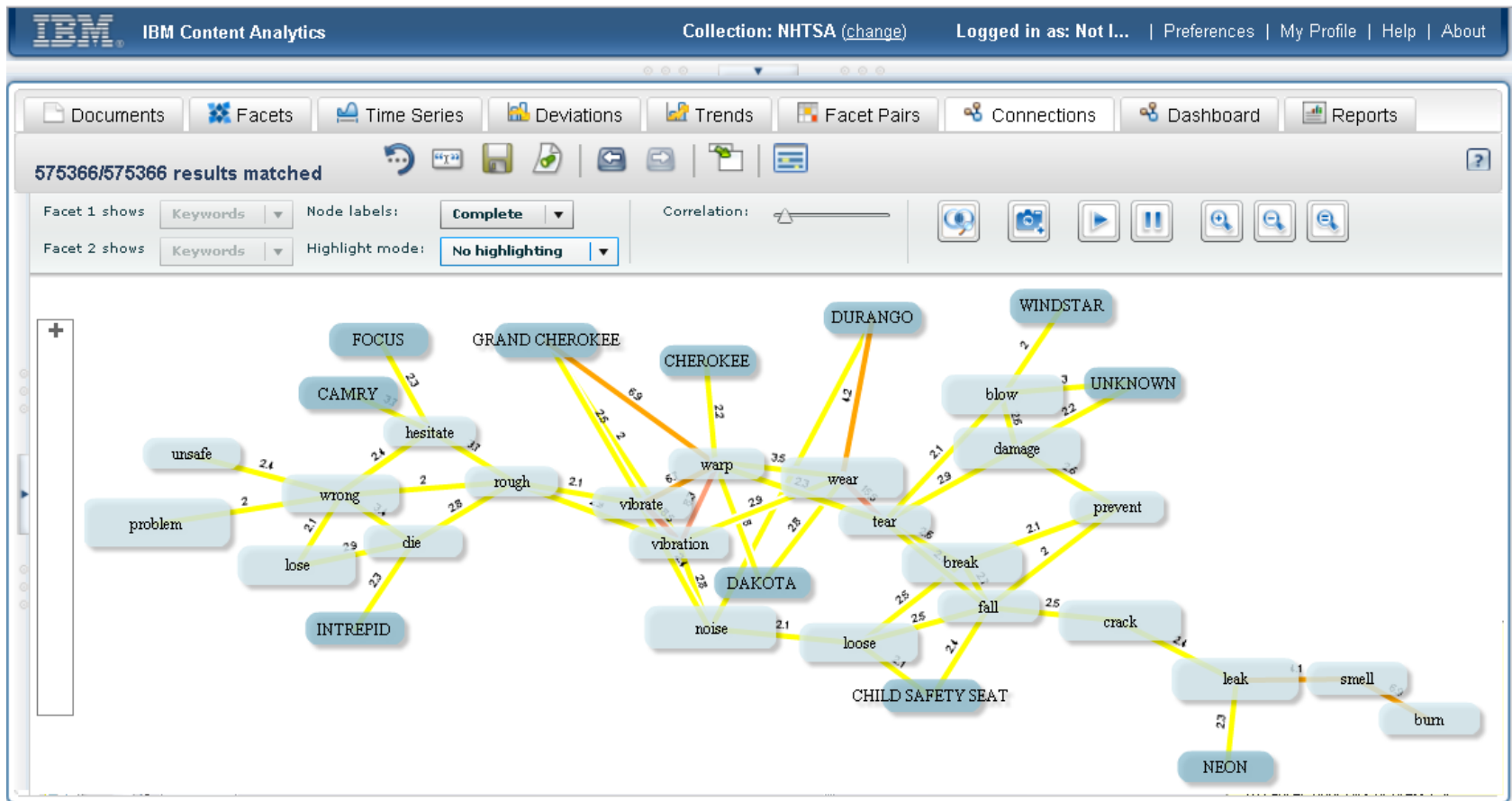
Explore Relationships Between Facet Values



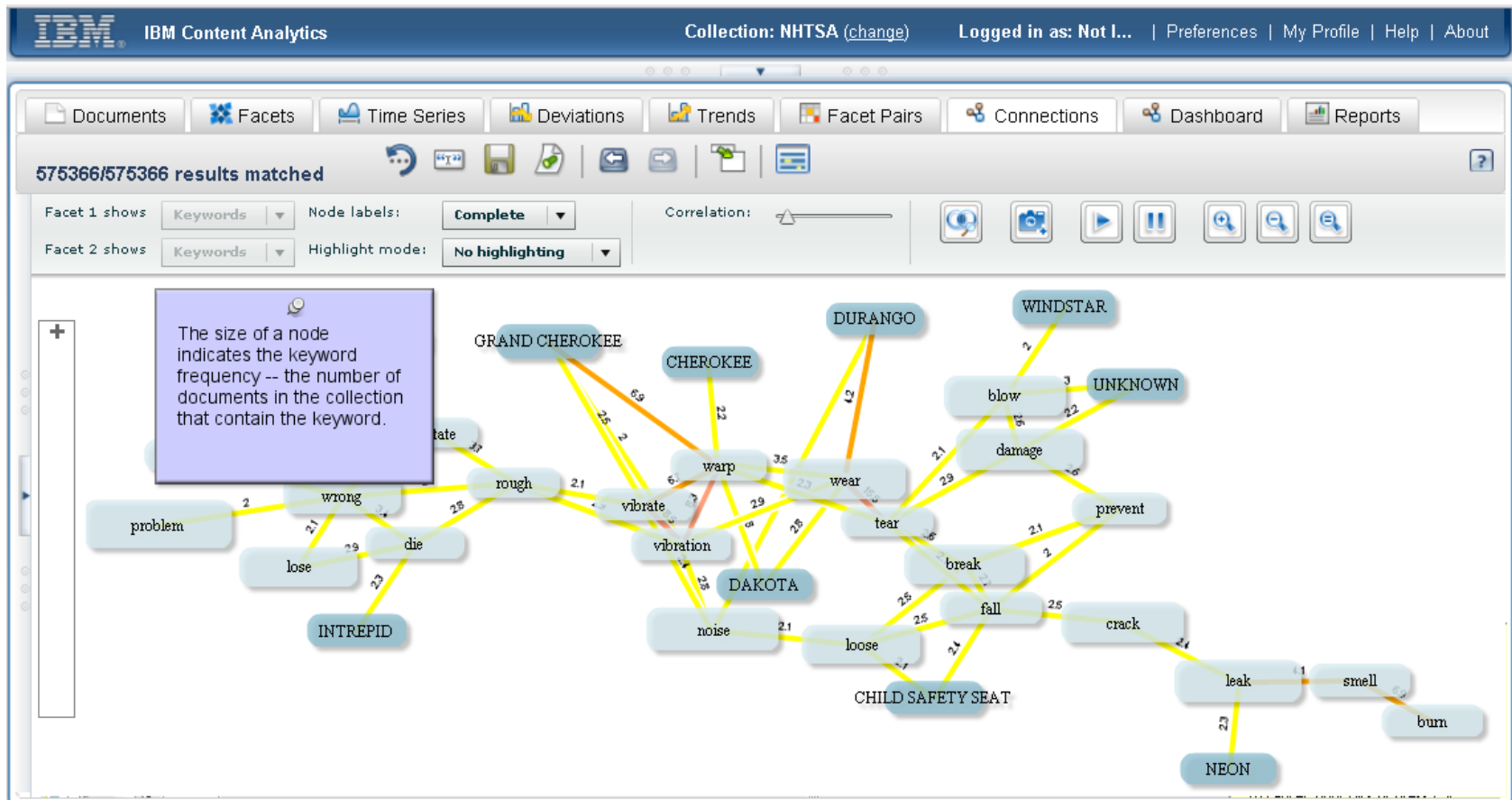
Explore Relationships Between Facet Values



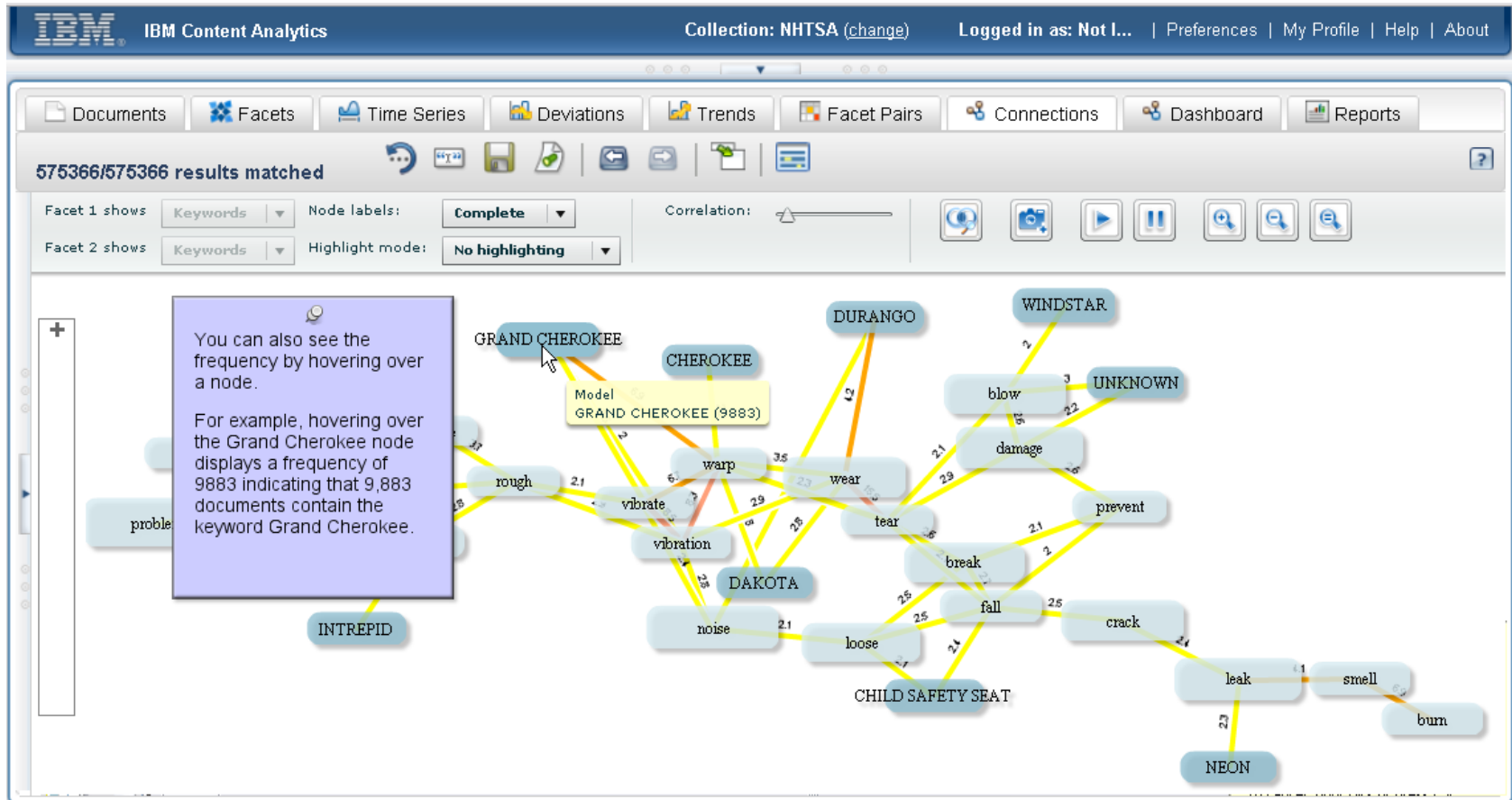
Explore Relationships Between Facet Values



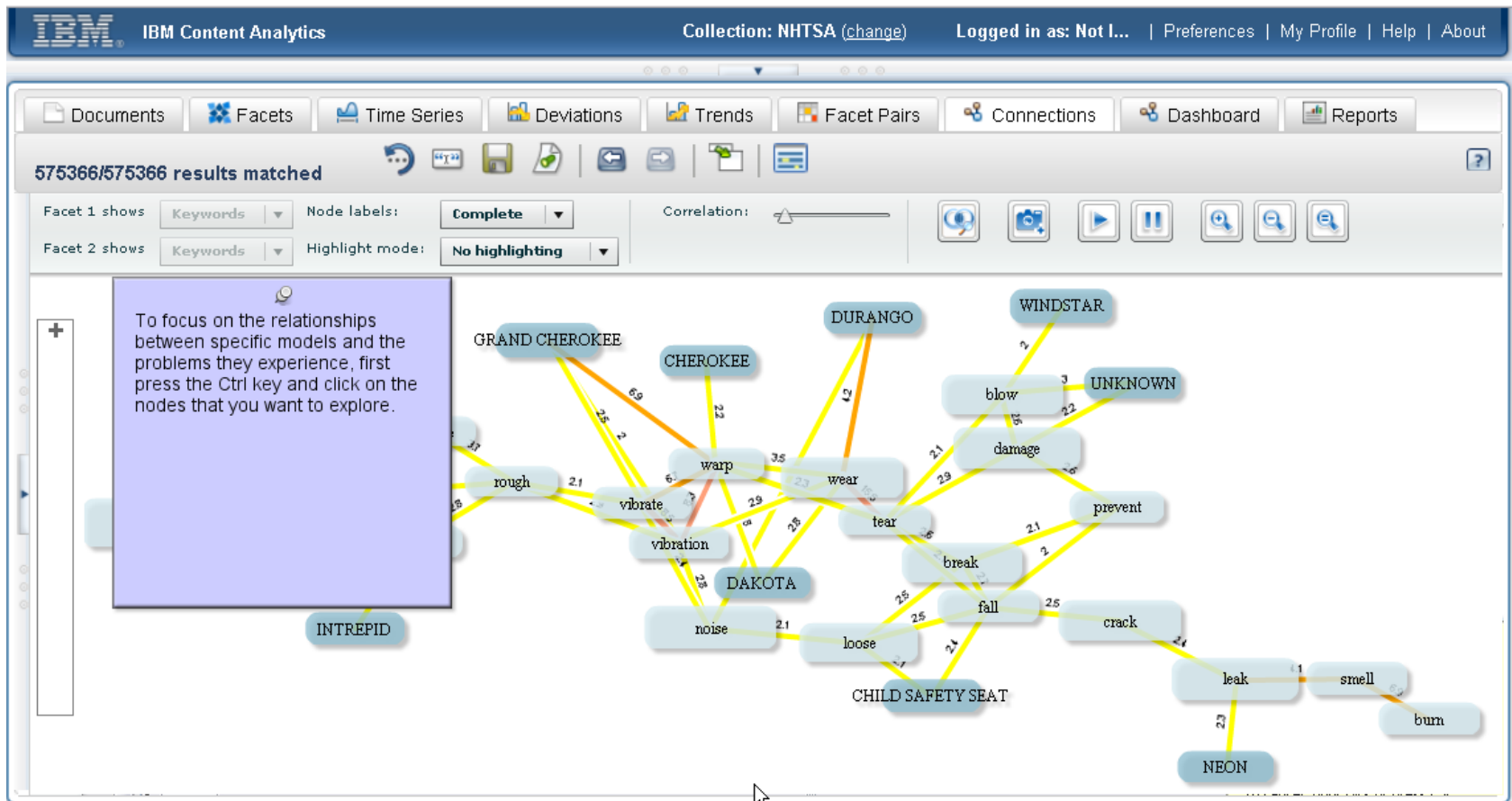
Explore Relationships Between Facet Values



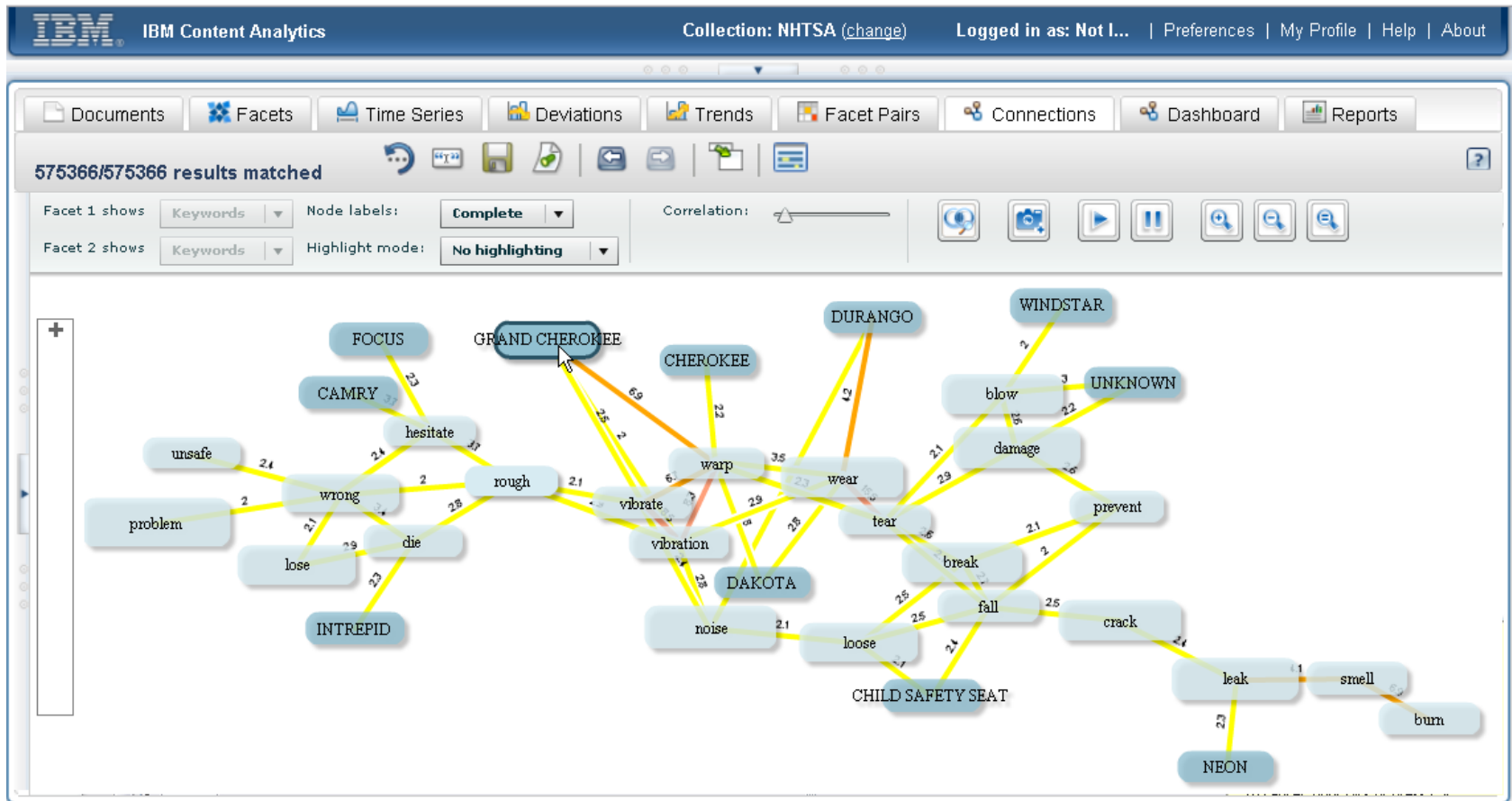
Explore Relationships Between Facet Values



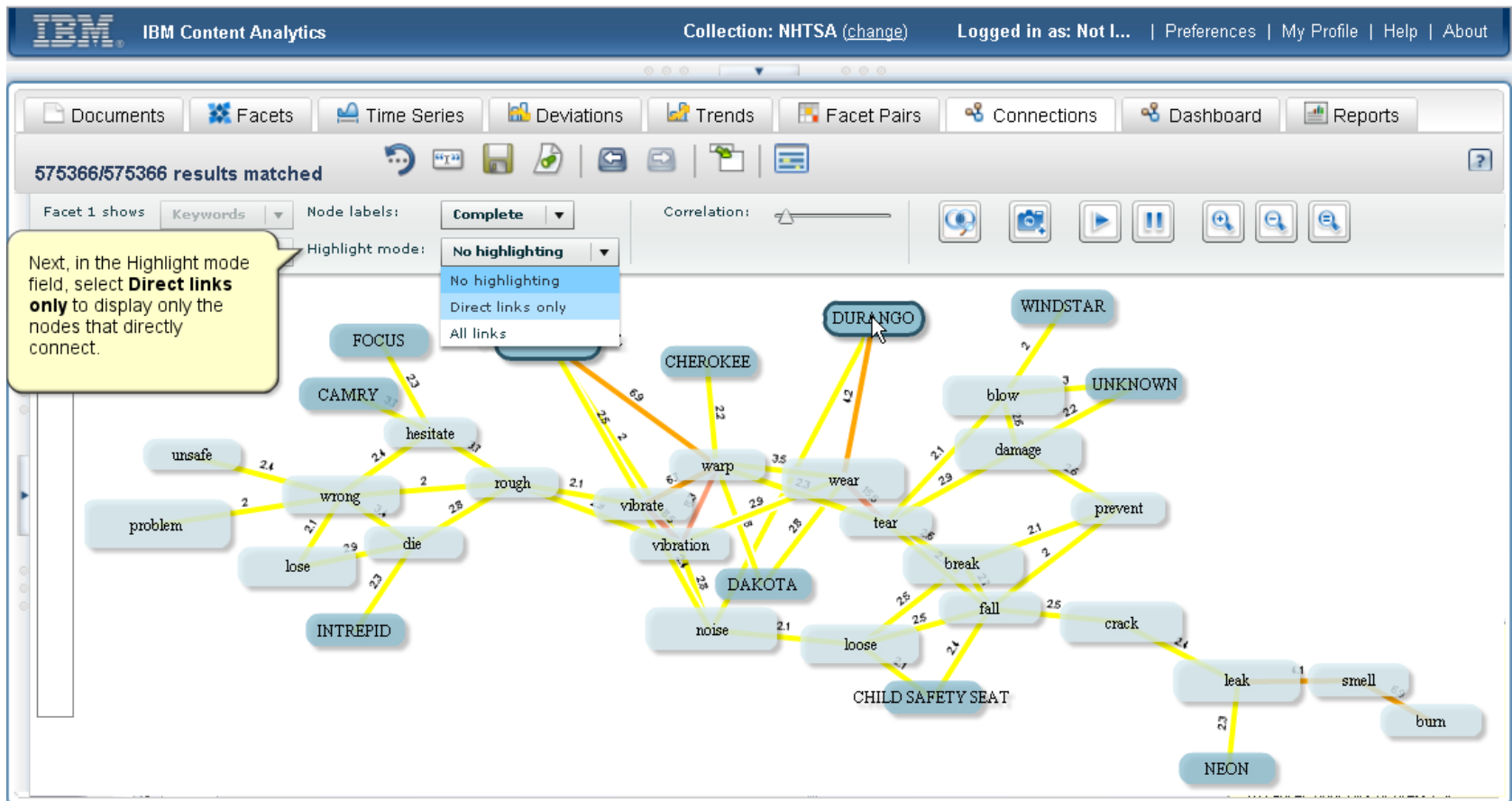
Explore Relationships Between Facet Values



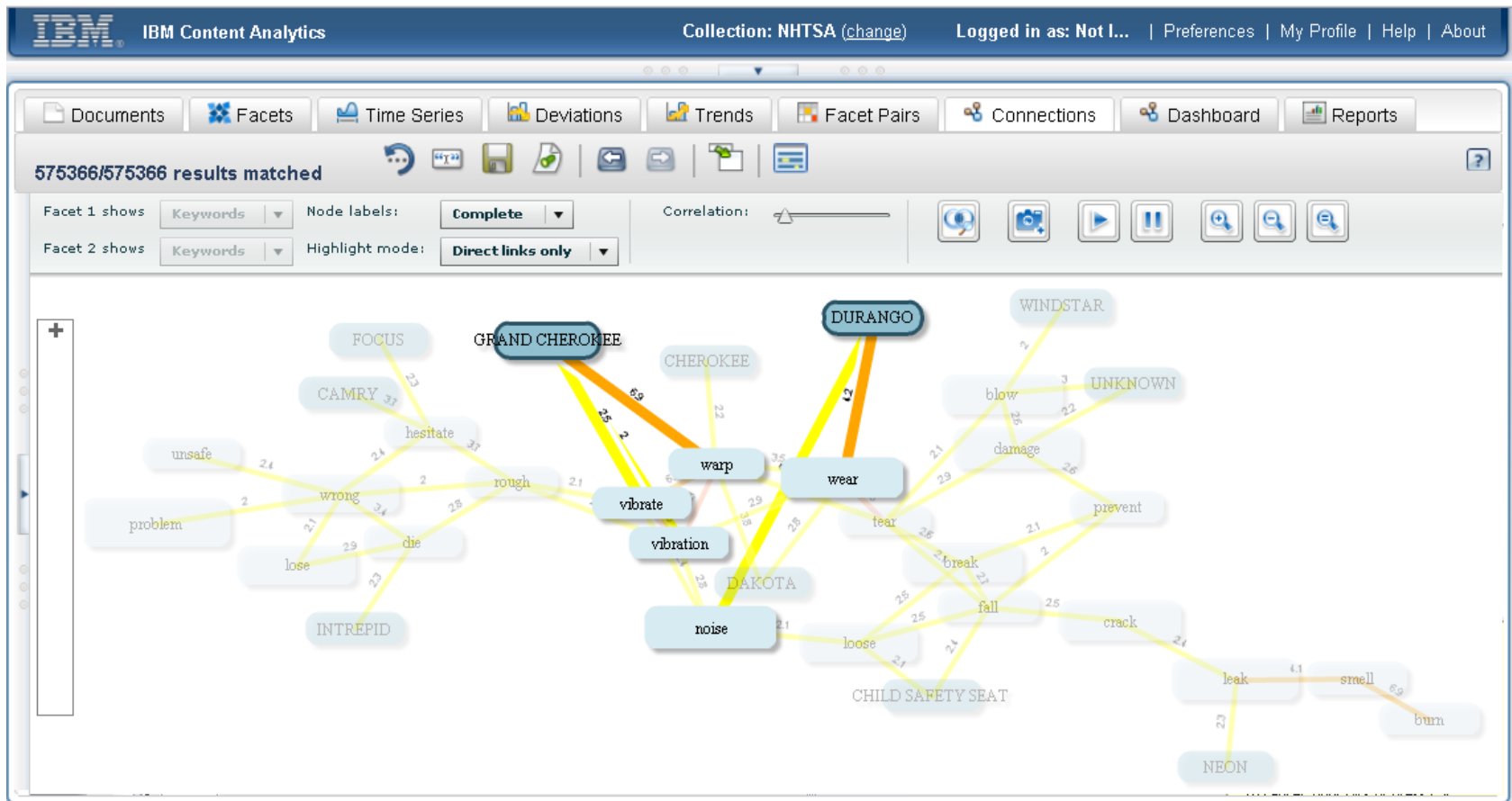
Explore Relationships Between Facet Values



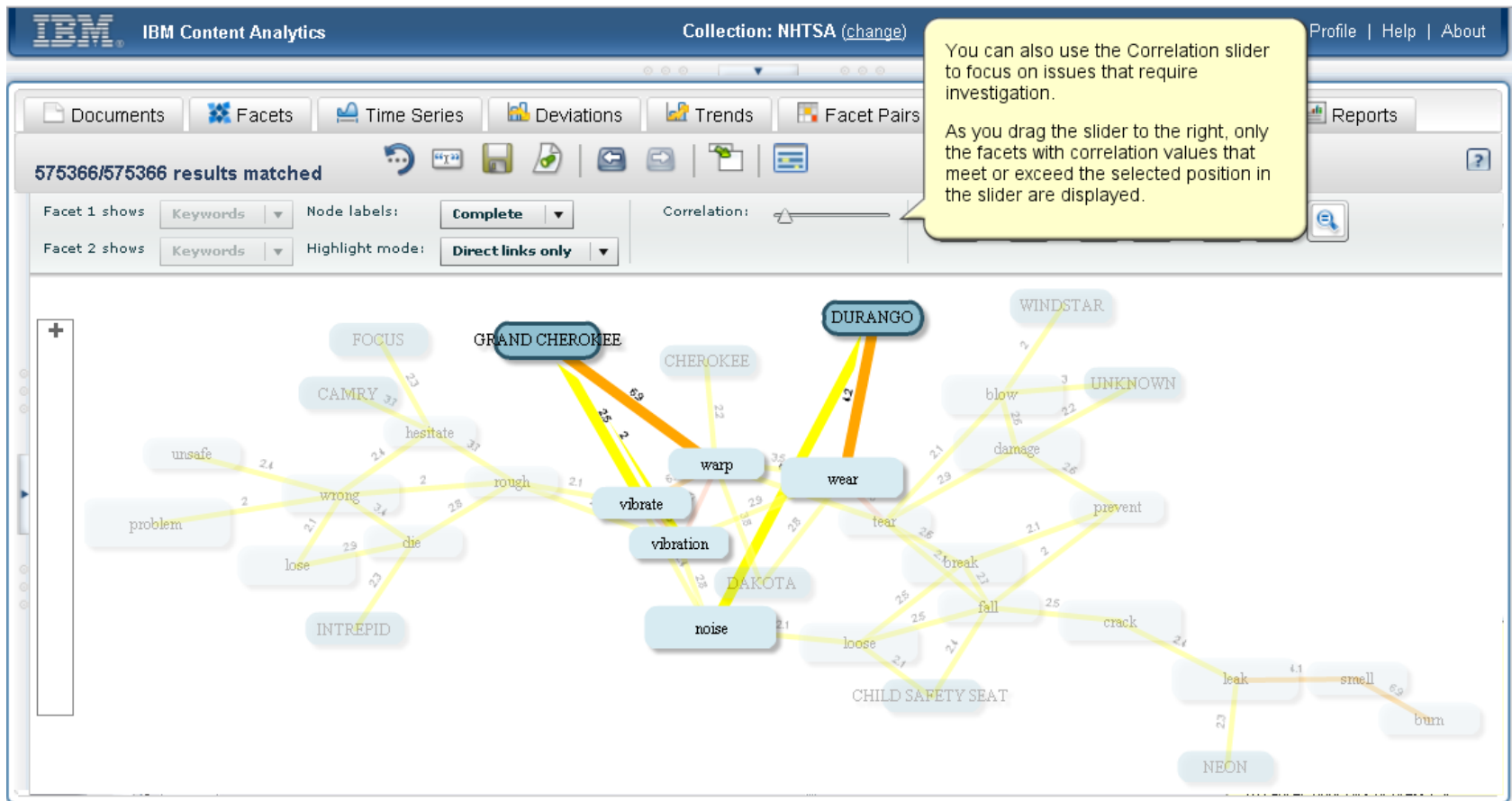
Explore Relationships Between Facet Values



Explore Relationships Between Facet Values



Explore Relationships Between Facet Values



Explore Relationships Between Facet Values

The screenshot displays the IBM Content Analytics interface. At the top, the header includes the IBM logo, 'IBM Content Analytics', and navigation links for 'Collection: NHTSA (change)', 'Logged in as: Not I...', 'Preferences', 'My Profile', 'Help', and 'About'. Below the header is a toolbar with tabs for 'Documents', 'Facets', 'Time Series', 'Deviations', 'Trends', 'Facet Pairs', 'Connections', 'Dashboard', and 'Reports'. A status bar indicates '575366/575366 results matched'. The main interface area contains several controls: 'Facet 1 shows' and 'Facet 2 shows' both set to 'Keywords'; 'Node labels' set to 'Complete'; and 'Highlight mode' set to 'Direct links only'. A central network graph shows relationships between facet values, with 'GRAND CHEROKEE' as a prominent node. Other nodes include 'FOCUS', 'CAMRY', 'warp', 'wear', 'vibrate', 'vibration', 'noise', 'warp', 'wear', 'tear', 'blow', 'UNKNOWN', 'damage', 'prevent', 'crack', 'fall', 'leak', 'smell', 'burn', 'NEON', 'CHILD SAFETY SEAT', 'DAKOTA', 'lose', 'die', 'INTREPID', 'problem', 'unsafe', 'wrong', 'rough', 'hesitate', 'die', 'fall', 'crack', 'leak', 'smell', 'burn', 'NEON', 'CHILD SAFETY SEAT', 'DAKOTA', 'lose', 'die', 'INTREPID', 'problem', 'unsafe', 'wrong', 'rough', 'hesitate'. A yellow callout box with a speech bubble icon contains the text: 'You can save the relationship maps as an image. First click the screen shot button and select the output format for the image. A dialog box opens.' To the right of the callout is a dropdown menu with options: 'Bitmap (*.bmp)', 'PNG (*.png)', and 'JPEG (*.jpg)'. The graph is rendered with nodes as light blue rounded rectangles and edges as yellow lines of varying thickness, representing correlation strength.

Explore Relationships Between Facet Values

The screenshot displays the IBM Content Analytics interface. At the top, the header includes the IBM logo, "IBM Content Analytics", "Collection: NHTSA (change)", and "Logged in as: Not I...". Below the header, there are navigation tabs for "Documents", "Facets", and "Time Series". The main content area shows "575366/575366 results matched" and two facets, each with a "Keywords" dropdown menu. A network diagram is visible in the background, with nodes labeled "unsafe", "problem", "lose", "die", "INTREPID", "CHILD SAFETY SEAT", "leak", "smell", "burn", and "NEON".

A "Select location for download by tkmsrv5.yamato.ibm.com" dialog box is open in the foreground. The "Save in:" field is set to "Mozilla Firefox" and is highlighted with a red box. The "File name:" field contains "1282852601140.bmp" and is also highlighted with a red box. The "Save" button is highlighted with a red box. The "Save as type:" field is set to "All Files (*.*)". A warning message at the bottom of the dialog box reads: "Warning: This file may be an executable program or contain malicious content, use caution before saving or opening."

A purple text box overlaid on the dialog box contains the following instructions:

Next, in the dialog box, go to the Save in field and select a location for the image file.

Finally, in the File name field, type a name for the image. Click **Save** to create and save the file.

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Explore Relationships Between Facet Values

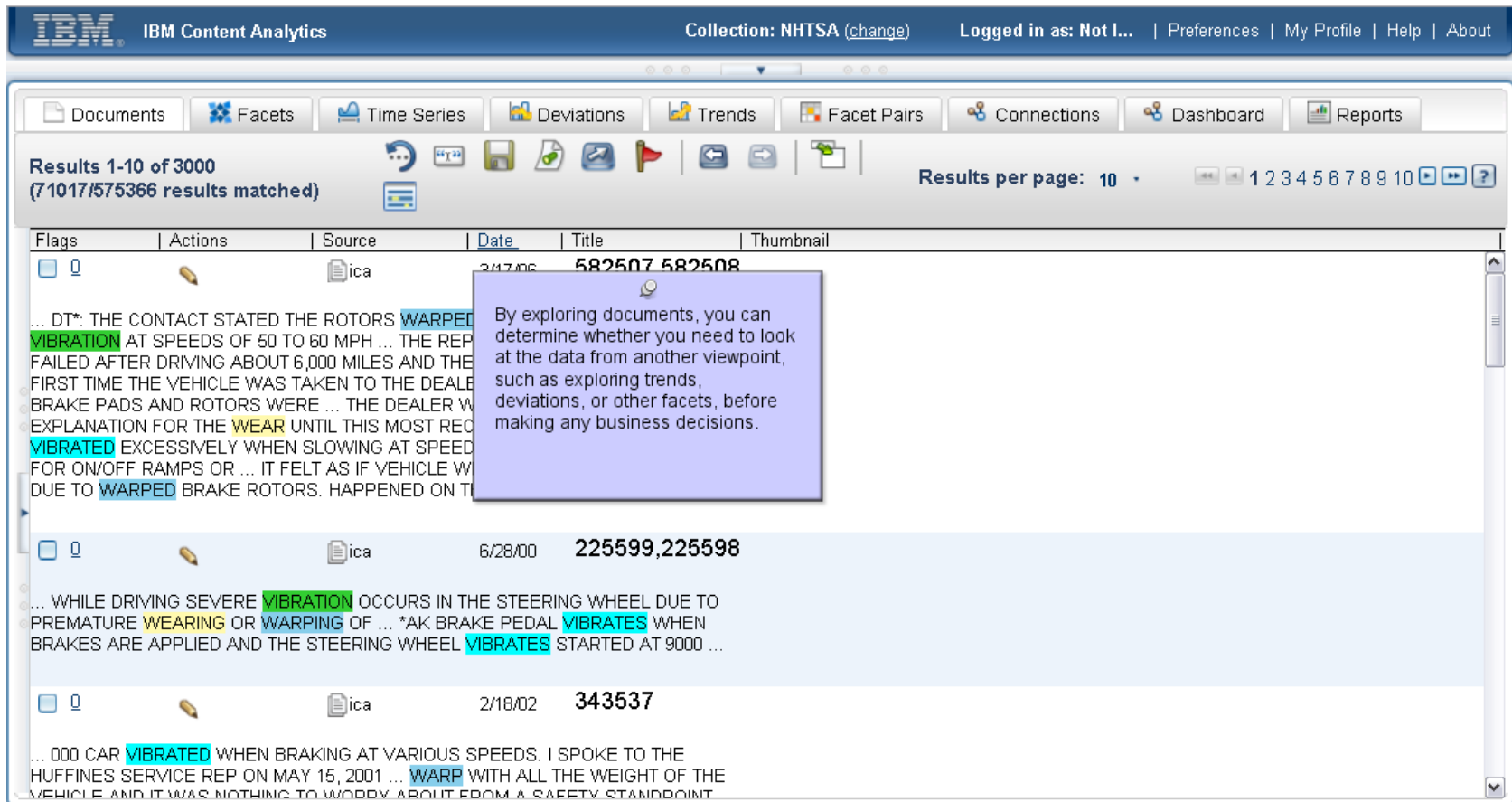
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The view now contains only the documents that match your search conditions.

Now that you've discovered the highly correlated facet pairs click the **Documents** tab to go to the Documents view to explore the actual documents.

The central part of the interface features a network graph where nodes represent facet values and edges represent correlations. The nodes are arranged in a hierarchical structure, with 'GRAND AM' at the top, connected to 'grind'. Below 'grind' are 'EXPEDITION' and 'damage'. 'EXPEDITION' is connected to 'blow', which is connected to 'UNKNOWN'. 'UNKNOWN' is connected to 'wear', which is connected to 'tear'. 'tear' is connected to 'break', 'fall', and 'loose'. 'break' is connected to 'rough'. 'fall' is connected to 'loose'. 'loose' is connected to 'loose' and 'rough'. 'loose' is also connected to 'leak'. 'leak' is connected to 'crack', 'burn', 'stick', and 'smell'. 'crack' is connected to 'burn', 'stick', and 'smell'. 'burn' is connected to 'stick' and 'smell'. 'stick' is connected to 'smell'. 'smell' is connected to 'smell'. 'DAKOTA' is connected to 'warp', which is connected to 'MALIBU'. 'CHEROKEE' is also connected to 'warp'.

Explore Relationships Between Facet Values



IBM Content Analytics Collection: NHTSA (change) Logged in as: Not I... | Preferences | My Profile | Help | About

Documents Facets Time Series Deviations Trends Facet Pairs Connections Dashboard Reports

Results 1-10 of 3000 (71017/575366 results matched) Results per page: 10 1 2 3 4 5 6 7 8 9 10

Flags	Actions	Source	Date	Title	Thumbnail
<input type="checkbox"/>		ica	2/17/06	582507,582508	
<p>... DT*: THE CONTACT STATED THE ROTORS WARPED VIBRATION AT SPEEDS OF 50 TO 60 MPH ... THE REP FAILED AFTER DRIVING ABOUT 6,000 MILES AND THE FIRST TIME THE VEHICLE WAS TAKEN TO THE DEALER BRAKE PADS AND ROTORS WERE ... THE DEALER W EXPLANATION FOR THE WEAR UNTIL THIS MOST REC VIBRATED EXCESSIVELY WHEN SLOWING AT SPEED FOR ON/OFF RAMPS OR ... IT FELT AS IF VEHICLE W DUE TO WARPED BRAKE ROTORS. HAPPENED ON T</p>					
<input type="checkbox"/>		ica	6/28/00	225599,225598	
<p>... WHILE DRIVING SEVERE VIBRATION OCCURS IN THE STEERING WHEEL DUE TO PREMATURE WEARING OR WARPING OF ... *AK BRAKE PEDAL VIBRATES WHEN BRAKES ARE APPLIED AND THE STEERING WHEEL VIBRATES STARTED AT 9000 ...</p>					
<input type="checkbox"/>		ica	2/18/02	343537	
<p>... 000 CAR VIBRATED WHEN BRAKING AT VARIOUS SPEEDS. I SPOKE TO THE HUFFINES SERVICE REP ON MAY 15, 2001 ... WARP WITH ALL THE WEIGHT OF THE VEHICLE AND IT WAS NOTHING TO WORRY ABOUT FROM A SAFETY STANDPOINT</p>					

By exploring documents, you can determine whether you need to look at the data from another viewpoint, such as exploring trends, deviations, or other facets, before making any business decisions.

Explore Relationships Between Facet Values

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Flags	Actions	Source	Date	Title	Thumbnail
<input type="checkbox"/>		ica	2/17/06	582507,582508	
... DT*: THE CONTACT STATED THE ROTORS WARPED VIBRATION AT SPEEDS OF 50 TO 60 MPH ... THE REP FAILED AFTER DRIVING ABOUT 6,000 MILES AND THE FIRST TIME THE VEHICLE WAS TAKEN TO THE DEALER BRAKE PADS AND ROTORS WERE ... THE DEALER W EXPLANATION FOR THE WEAR UNTIL THIS MOST REC VIBRATED EXCESSIVELY WHEN SLOWING AT SPEED FOR ON/OFF RAMPS OR ... IT FELT AS IF VEHICLE W DUE TO WARPED BRAKE ROTORS. HAPPENED ON T					
<input type="checkbox"/>		ica	6/28/00	225599,225598	
... WHILE DRIVING SEVERE VIBRATION OCCURS IN THE STEERING WHEEL DUE TO PREMATURE WEARING OR WARPING OF ... *AK BRAKE PEDAL VIBRATES WHEN BRAKES ARE APPLIED AND THE STEERING WHEEL VIBRATES STARTED AT 9000 ...					
<input type="checkbox"/>		ica	2/18/02	343537	
... 000 CAR VIBRATED WHEN BRAKING AT VARIOUS SPEEDS. I SPOKE TO THE HUFFINES SERVICE REP ON MAY 15, 2001 ... WARP WITH ALL THE WEIGHT OF THE VEHICLE AND IT WAS NOTHING TO WORRY ABOUT FROM A SAFETY STANDPOINT					