

Triangulator


This application has been designed to take in line-by-line claims data, produce diagnostics & triangles, and then help the user dig into the underlying claims to truly understand triangle patterns.


Explore the application

If you would like to explore the capabilities of the applications, feel free to download the sample data and run it through the application.

Don't worry, the claims data is completely fictitious and has been generated using R!

Download Sample Data

 Download Sample Data

 Download Sample Mapping

Import

This is the import tab, you need to import your line-by-line claims file, and tell the applications what your column names are! You are in luck however, the mapping should be smooth sailing!

Step 1: Upload Claims

Link up your line-by-line Claims database

Browse...

No file selected

Once you upload your file, and after you click the "Show Data:" button, you will be able to see the first few rows of your dataset and the column names you currently have – this is just for your FYI.

Step 1: Upload Claims

Link up your line-by-line Claims database.

Browse...

sample_database.xlsx

Upload complete

☒ Show Data:

policy_id_test	claim_id_test	grouping_1_test	grouping_2_test	date_issue_test	date_stamp_test	date_incident_test	date_reported_test	paid_test
POL000001	CLM000001	travel	cancellation	1664712914.94	1678060800.00	1676764800.00	1678060800.00	0.00
POL000001	CLM000001	travel	cancellation	1664712914.94	1681776000.00	1676764800.00	1678060800.00	832.37
POL000001	CLM000002	travel	medical_expense	1661134007.69	1675382400.00	1673222400.00	1675382400.00	0.00
POL000001	CLM000002	travel	medical_expense	1661134007.69	1685836800.00	1673222400.00	1675382400.00	0.00
POL000002	CLM000003	travel	cancellation	1663498874.65	1672272000.00	1671580800.00	1672272000.00	0.00
POL000002	CLM000004	travel	medical_expense	1673992860.00	1693094400.00	1692144000.00	1693094400.00	0.00

You will scroll down and have to assign your variables. There are a few ways to do this.

Firstly, if this is your first time using the app you will have to use the manual way.

To do this, click the button “first time selecting variables?”, and the below inputs will appear

Manual Selections

Policy Id:

policy_id_test ▼

Claim Id:

claim_id_test ▼

Groupings:

grouping_1_test grouping_2_test

Incident Date:

date_incident_test ▼

Observation Date:

date_stamp_test ▼

Policy Issue Date:

date_issue_test ▼

Report Date:

date_reported_test ▼

Paid Claims:

paid_test ▼

Case Estimates:

case_test ▼

Assign Variables

Just to note, the following columns currently aren't used in the code: Policy_Id, so you can just have a column full of “unknowns” in your source data.

Once you click “assign variables” after inputting your manual selections, you will have the option to download the variables you manually selected. This is useful as you if you use the app again, you can skip the manual selections, and just import your selections.

Import Selections

Upload CSV File

Browse...	variable_selections.csv
Upload complete	

Note: if you are importing your selections, you will still have to click “assign variables”.

Once you click assign, you will see your assigned variables.

Assigned Selections

```
$user_policy_id
[1] "policy_id_test"

$user_claim_id
[1] "claim_id_test"

$user_groupings
[1] "grouping_1_test" "grouping_2_test"

$user_date_incident
[1] "date_incident_test"

$user_date_stamp
[1] "date_stamp_test"

$user_date_issue
[1] "date_issue_test"

$user_date_reported
[1] "date_reported_test"

$user_paid
[1] "paid_test"

$user_case
[1] "case_test"
```

Next, you will click the button to perform data checks.

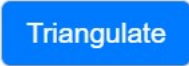
Step 3: Data Checks & Validations

Perform Data Checks

If you don't get a data score of 100%, then you should click the "Show Detailed Checks" button and make any corrections to your underlying data file.

Finally, all you have to do is click triangulate! – you will now be good to get analysing your data.

Step 4: Click Button

A blue rectangular button with rounded corners and the word "Triangulate" in white text.

Dashboard

Once your data is uploaded, you will automatically be taken to the Dashboard.

This tab is the reason for using the applications, explore your triangles, and the underlying claims behind them!

Inputs are on the left, results are on the right.

Just FYI the following definitions are used:

- **ITOT** = Incurred Claims
 - **PTOT** = Paid Claims
 - **NTOT** = Numbers Reported
 - **STOT** = Numbers Settled
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Thank you for using the application

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