

Order of Operations



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HEAD OF DATA VISUALIZATION ENGINEERING | PLURALSIGHT
2018 TABLEAU ZEN MASTER

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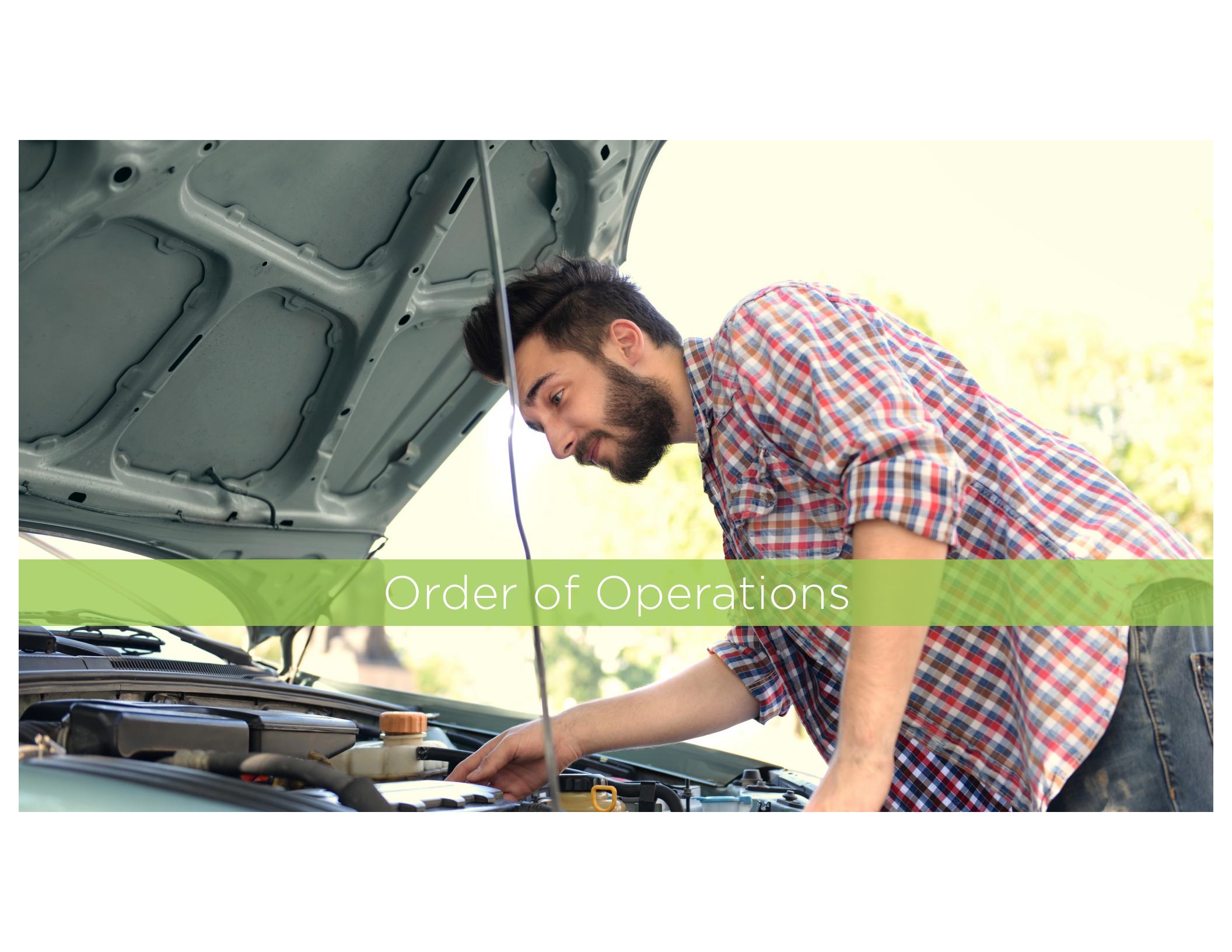
Overview



Order of Operations

- Understanding Order of Operations
- Convert a Dimension Filter to a Context Filter
- Convert a Table Calculation to a Fixed Level of Detail Expression
- Convert a Dimension Filters to a Table Calculation Filter

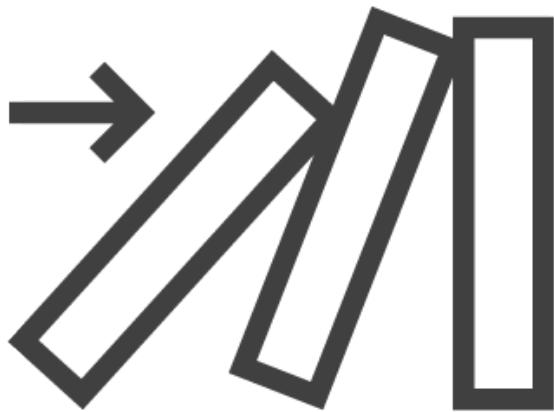


A photograph of a young man with dark hair and a beard, wearing a red, white, and blue plaid shirt, looking up from under the open hood of a car. He appears to be inspecting the engine. The background shows a bright, outdoor setting with trees.

Order of Operations

Understanding Order of Operations





What is the order of operations?

- ✓ Query pipeline
- ✓ Order of filters, calculations
and data blending



Extract Filters

Data Source Filters

Context Filters

Sets, Conditional, Top N Filters, FIXED Level of Detail expressions (calculated)

Dimension Filters

Data Blending

INCLUDE and EXCLUDE Level of Detail expressions (calculated)

Measure Filters

Total (calculated)

Forecasts and Table Calculations (calculated)

Trend lines, Reference Lines (calculated)

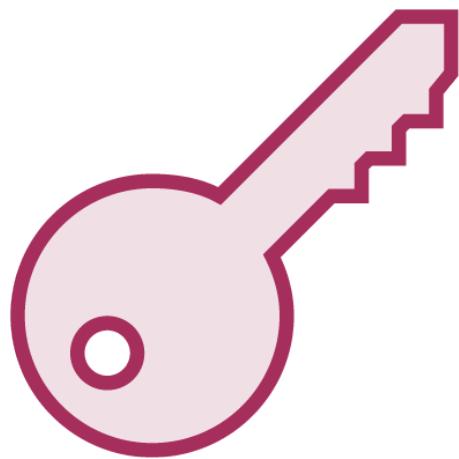
Order of Operations

Indicates Filters

Indicates Calculation

Indicates Data Blending



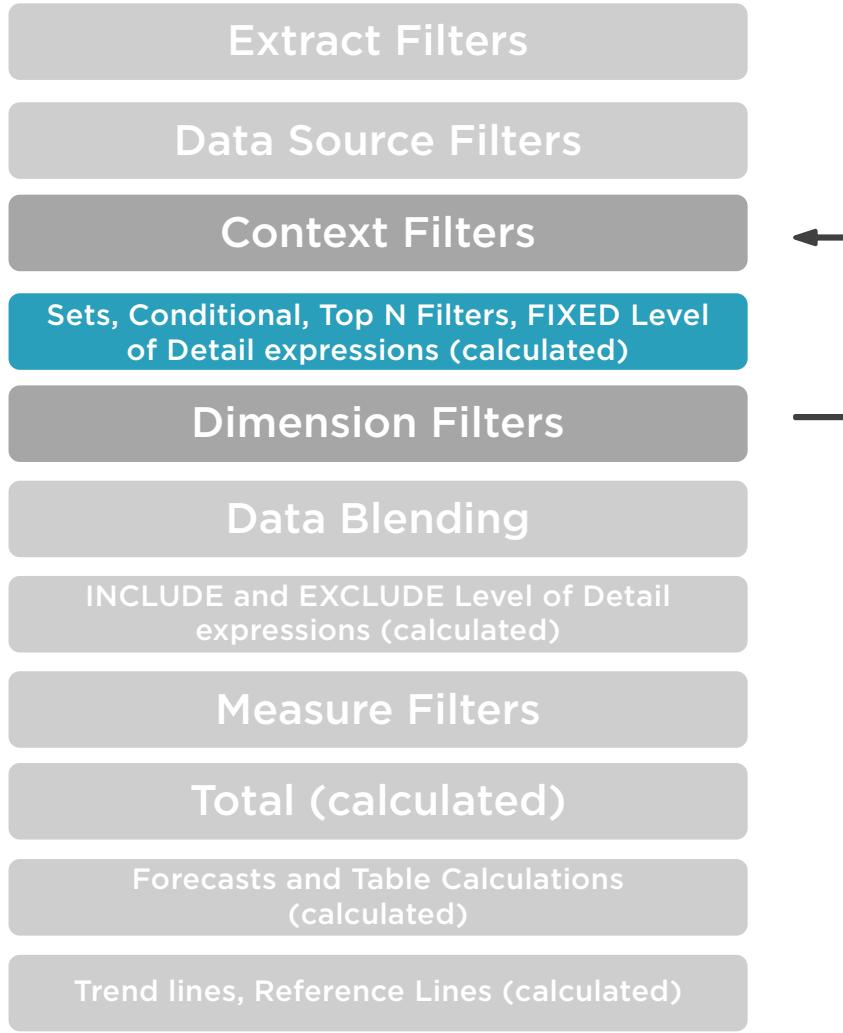


**Understanding the
order of operations is
the key to demystifying
Tableau**

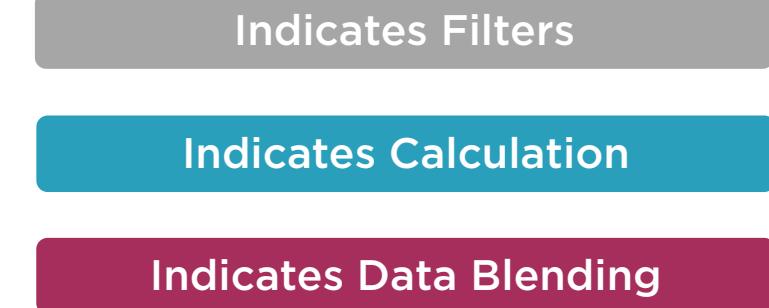


Convert a Dimension Filter to a Context Filter

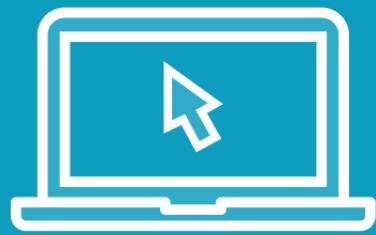




Order of Operations



Demo

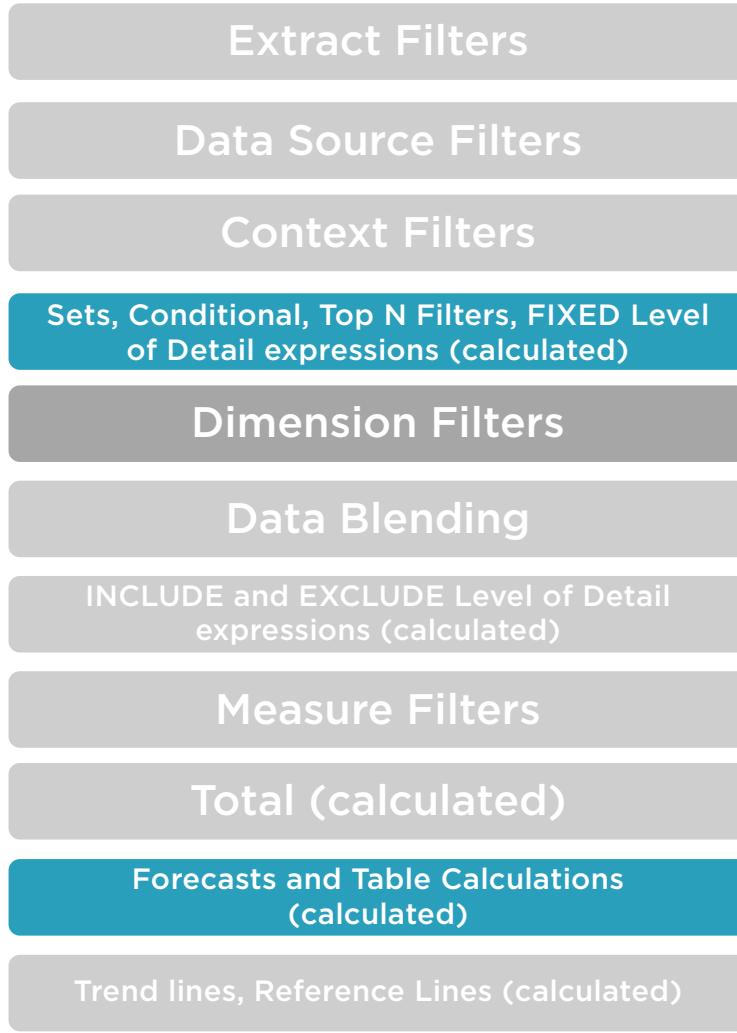


**Convert a Dimension Filter
to a Context Filter**

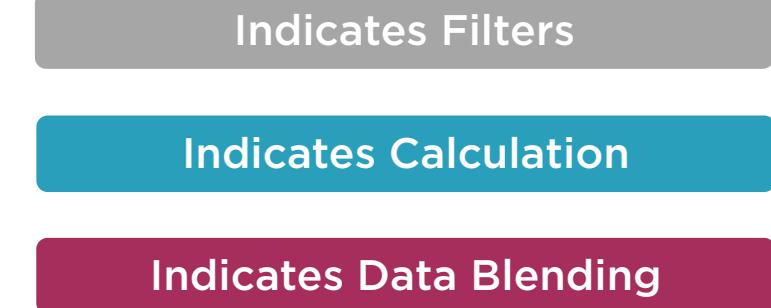


Convert a Table Calculation to a Fixed Level of Detail Expression

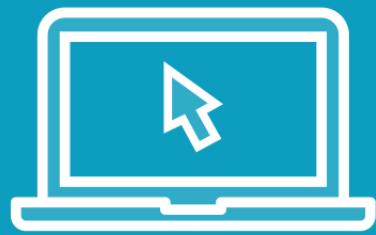




Order of Operations



Demo

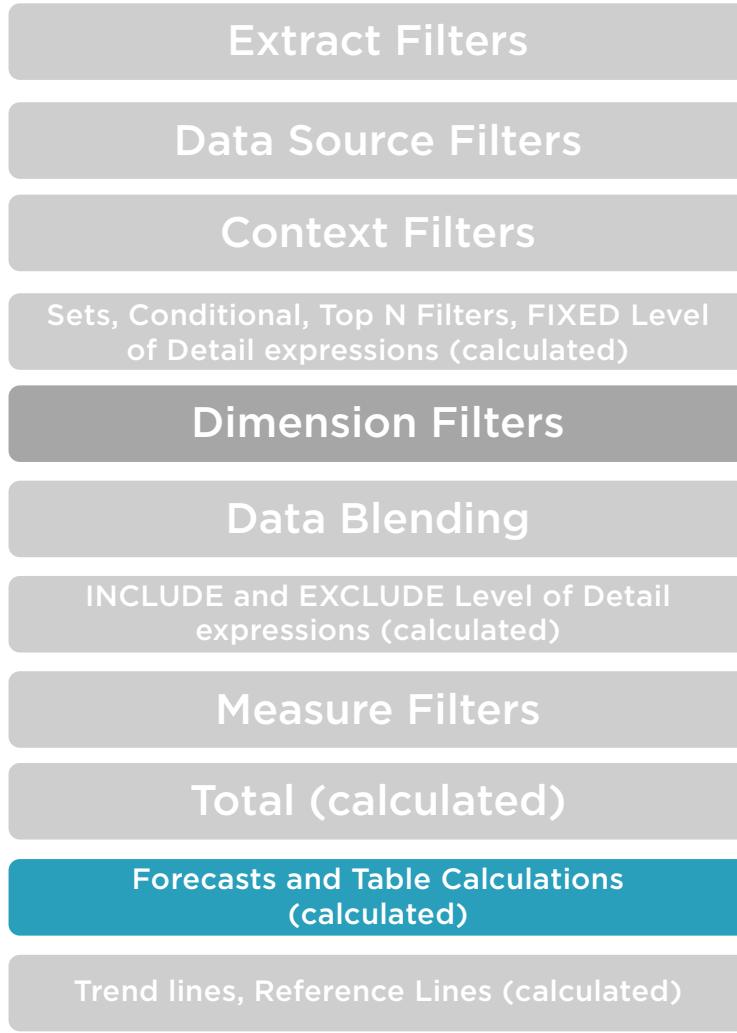


**Convert a Table Calculation to a
Fixed Level of Detail Expression**



Convert a Dimension Filter to a Table Calculation Filter





Order of Operations

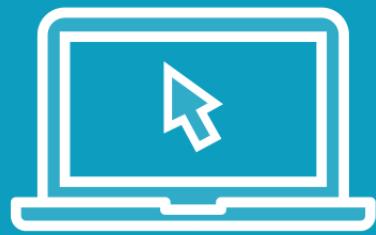
Indicates Filters

Indicates Calculation

Indicates Data Blending



Demo



**Convert a Dimension Filter
to a Table Calculation Filter**



Summary



Order of Operations

- Understanding Order of Operations
- Convert a Dimension Filter to a Context Filter
- Convert a Table Calculation to a Fixed Level of Detail Expression
- Convert a Dimension Filters to a Table Calculation Filter



Things to Remember

Context filters are required to filter sets or fixed level of detail expressions

Fixed level of detail expressions are not impacted by dimension filters

Table calculations are computed near the end of the order of operations

You can move up or down the order of operations depending on your view configuration



Wrapping up the Course



Organize



Explore



Transform



Order of
Operations





Thank You