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# Sharing Visualizations Using JMP Clinical and JMP Live

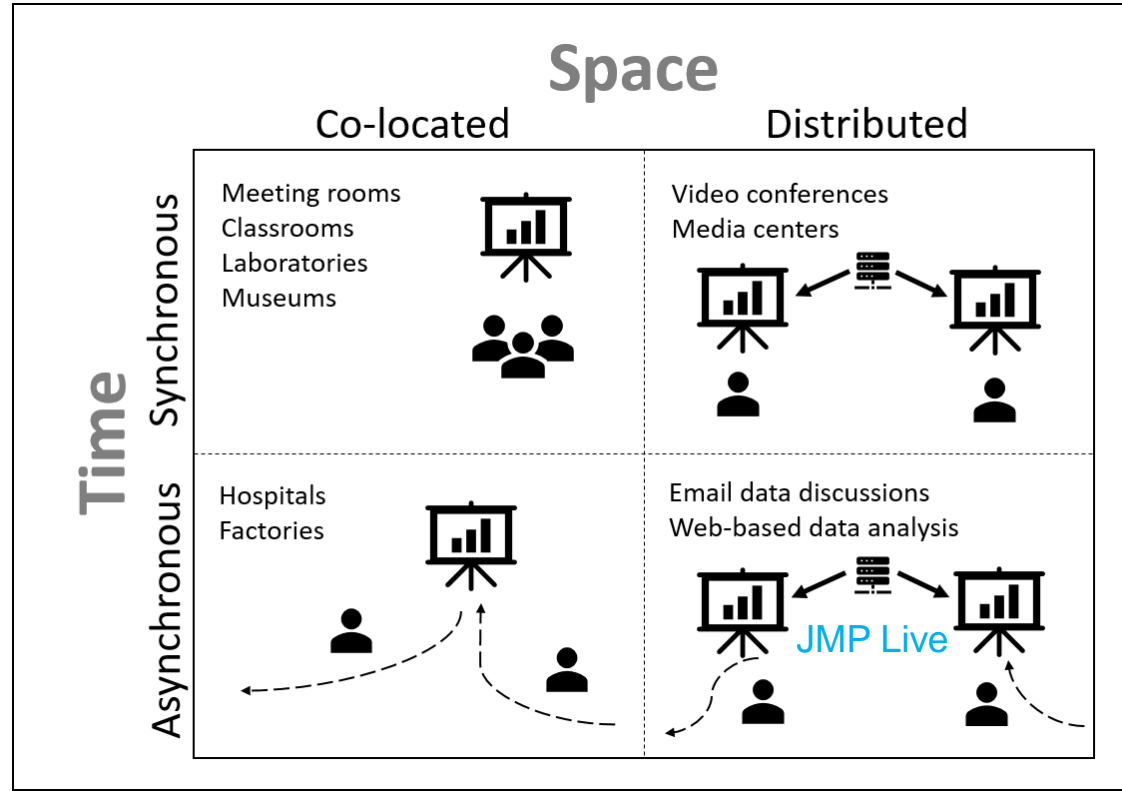
John Cromer, JMP Life Sciences

# Collaborative Visualization

- “...is the shared use of computer-supported, (interactive,) visual representations of data by more than one person with the common goal of contribution to joint information processing activities.”

Isenberg, et al. 2011

# Scenarios



Matrix adapted from  
Baecker, 1993,  
Dix, et al. 1998,  
Isenberg, et al. 2011

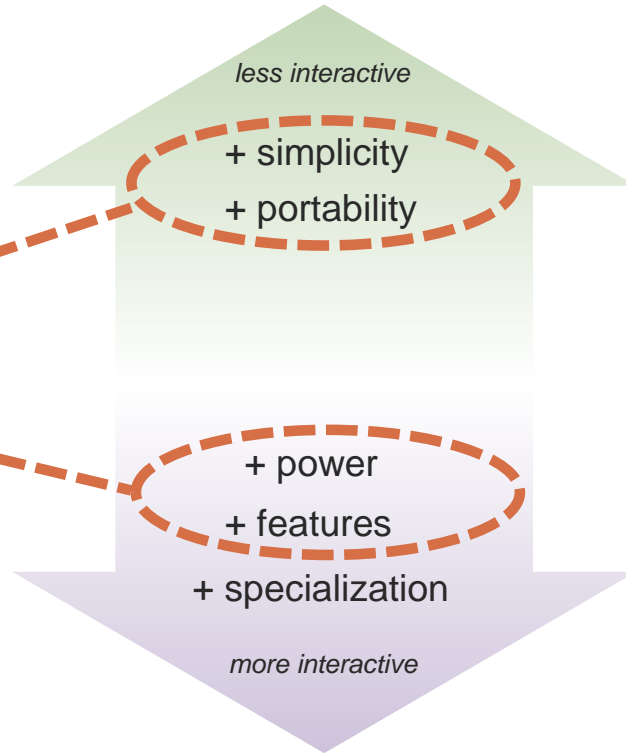
# Levels of Engagement

- Viewing Static Reports
- Interacting and exploring JMP Live
- Creating and sharing JMP, JMP Clinical

Isenberg, et al. 2011,  
Zambrano and Engelhardt, 2008

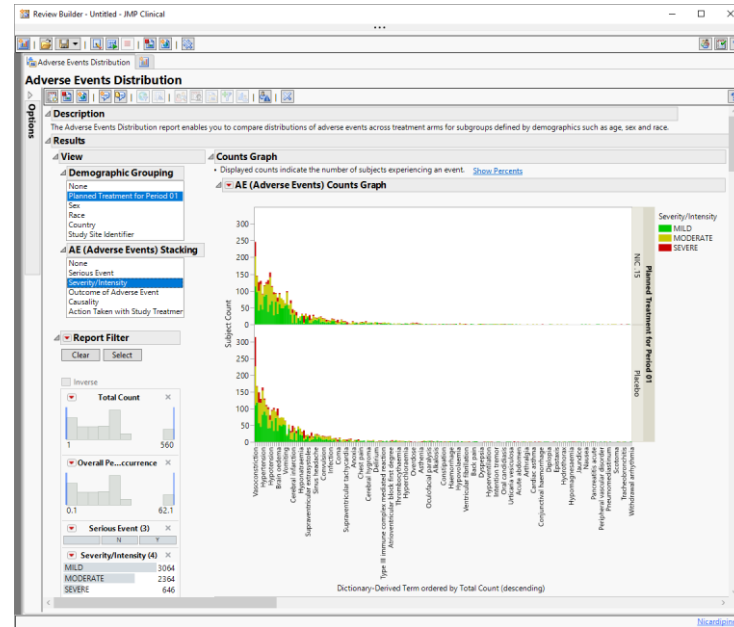
# Interactivity Spectrum

- Static Reports
- Interactive HTML
- JMP Live
- JMP
- JMP Clinical



# JMP Clinical

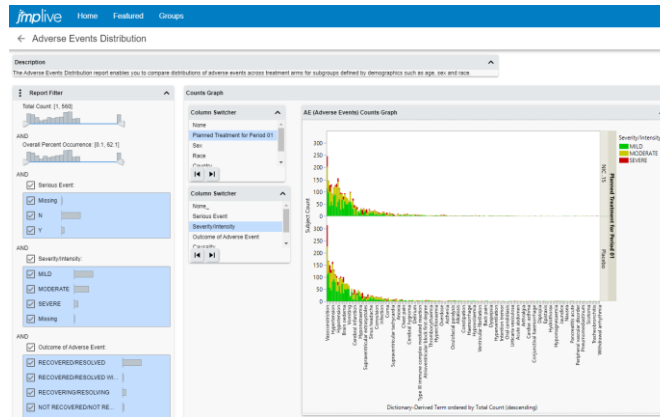
- Workflows based on role
  - Medical monitoring
  - Medical writers
  - Clinical operations
  - Data managers
- Review templates
- Trend and outlier exploration
- Sharing results



[https://www.jmp.com/en\\_us/software/clinical-data-analysis-software.html](https://www.jmp.com/en_us/software/clinical-data-analysis-software.html)

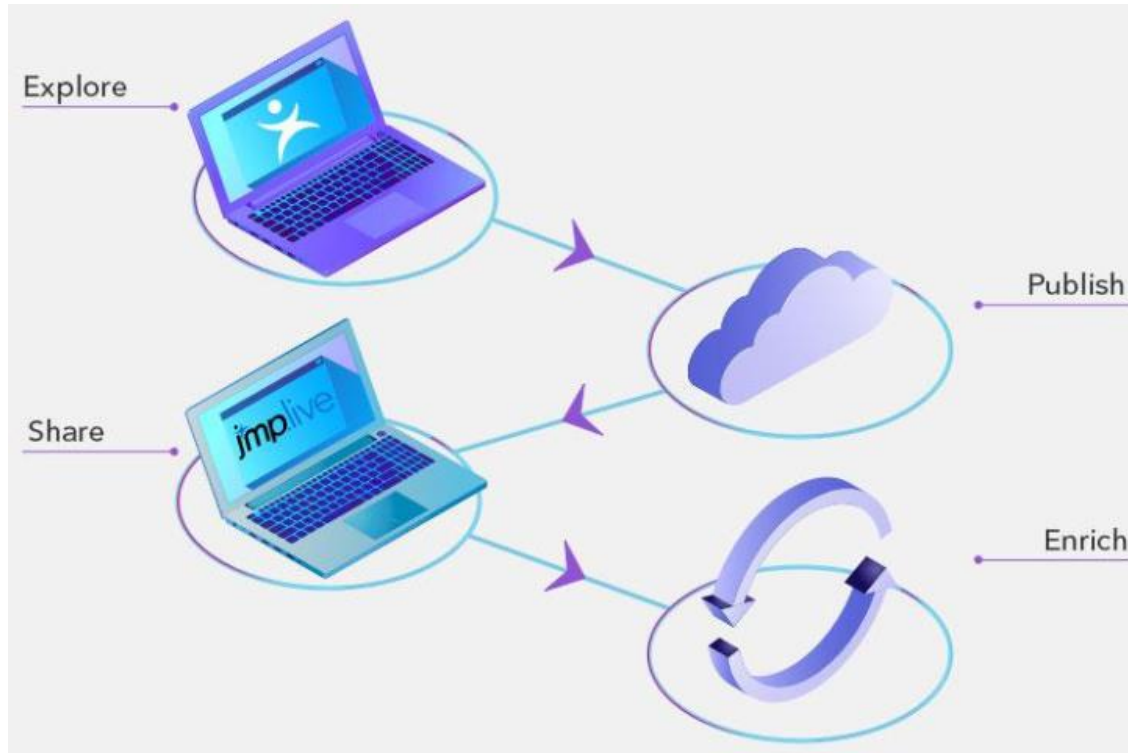
# JMP Live

- Extends power of JMP to web
  - Securely
  - For yourself, groups, or all
- Refresh view in seconds
  - Local data filter
  - Column switcher
- Organize with titles, descriptions, thumbnails
- Ability to write comments



[https://www.jmp.com/en\\_us/software/collaborative-analytics-software.html](https://www.jmp.com/en_us/software/collaborative-analytics-software.html)

# Publishing to JMP Live



[https://www.jmp.com/en\\_us/software/collaborative-analytics-software.html](https://www.jmp.com/en_us/software/collaborative-analytics-software.html)



# Publishing to JMP Live (Demo)

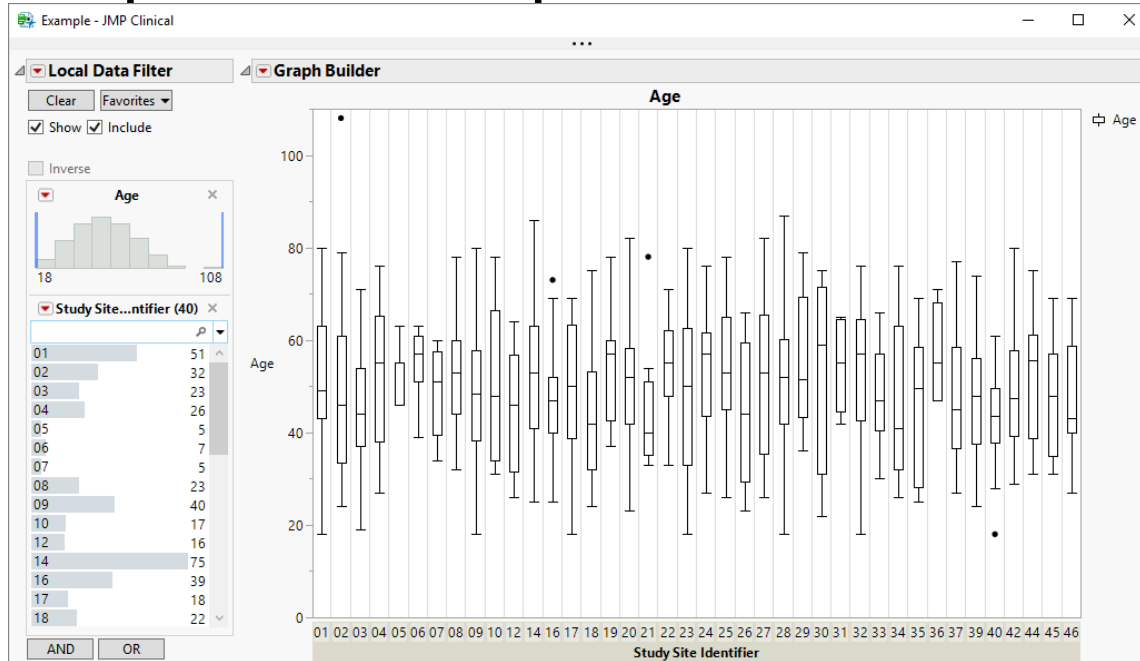
- 1. Prepare JMP report.

```
dt = Open( "C:\Program Files\SASHome\JMPClinical\15\LifeSciences\Sample Data\Nicardipine\SDTM\dm.sas7bdat", Invisible );

jmpreport = NewWindow("Example",
  VListBox(
    DataFilterContextBox(
      HListBox(
        dt << DataFilter( Conditional, Local, Add Filter( Columns( :Age, :Study Site Identifier ) ) ),
        dt << GraphBuilder(
          Show Control Panel( 0 ),
          Fit to Window( "On" ),
          X Group Edge( "Bottom" ),
          Variables(
            Y( :Age ),
            Group X( :Study Site Identifier )
          ),
          Elements( Box Plot( Y, Legend( 1 ), Jitter( "None" ), Box Style( "Normal" ) ) )
        )
      )
    )
  )
);
```

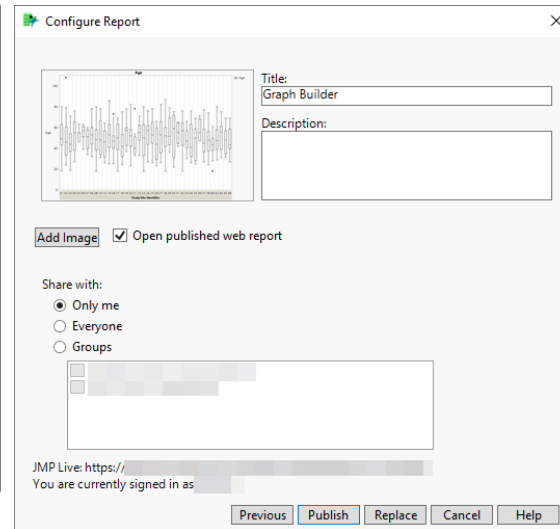
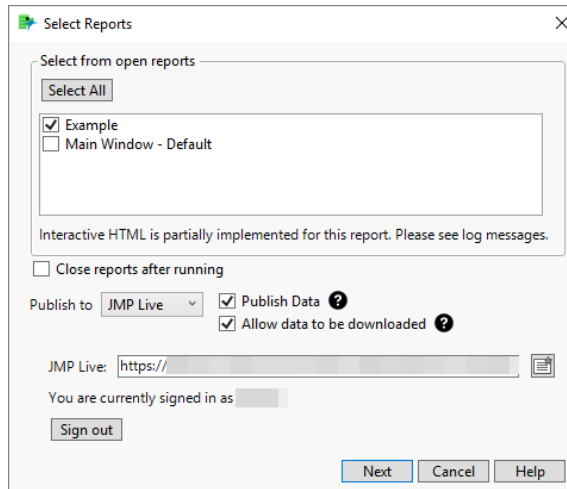
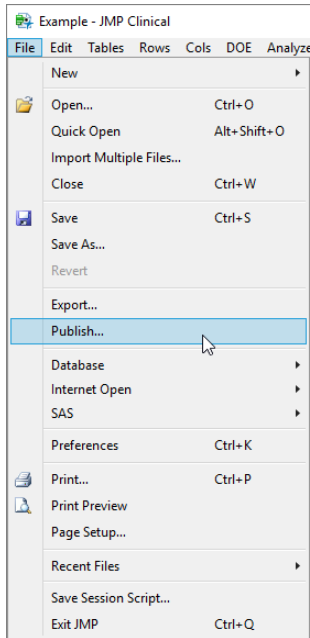
# Publishing to JMP Live (Demo)

- 1. Prepare JMP report.



# Publishing to JMP Live (Demo)

- 2. Use File > Publish for Interactive publish.



# Publishing to JMP Live (Demo)

- 2. Alternatively, use script to publish.

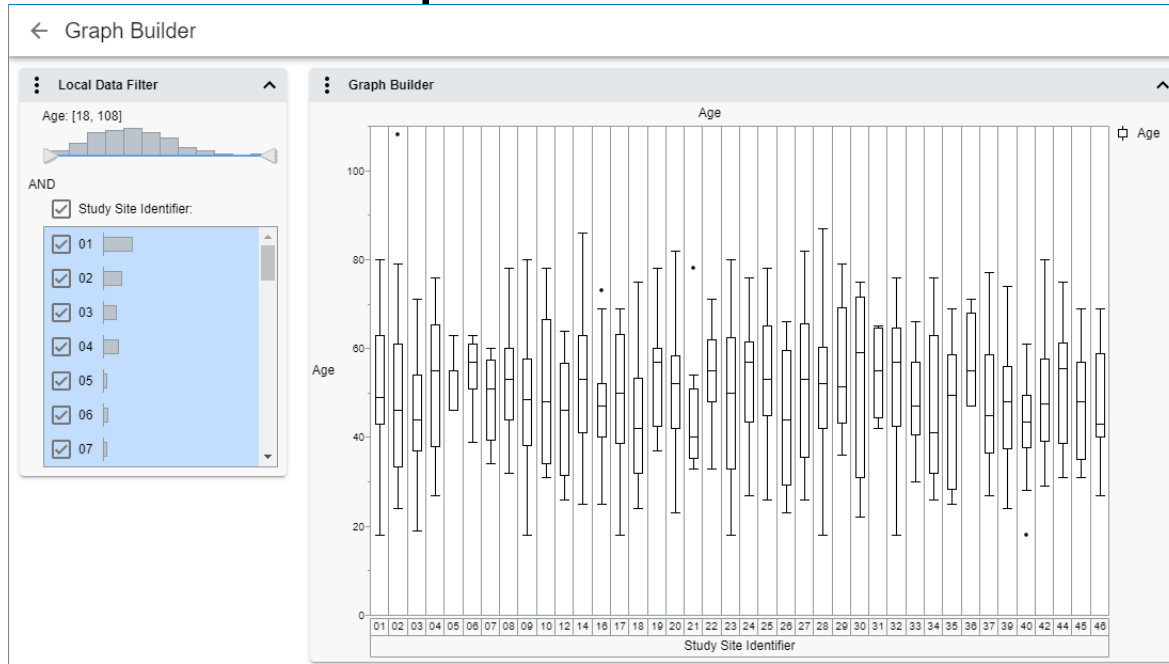
```
webreport = New Web Report();
webreport << Add Report(
    jmpreport,
    Title( "Example" )
);

url = webreport << Publish(URL(example:myLiveURL), username(example:myLiveUsername), ApiKey(example:myLiveAPIKey));

If( !Is Empty( url ),
    Web( url )
);
```

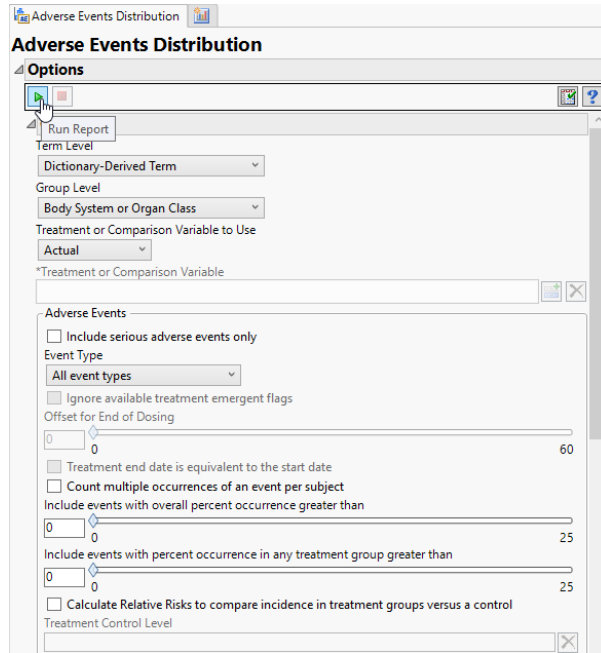
# Publishing to JMP Live (Demo)

- 3. View and explore on JMP Live.



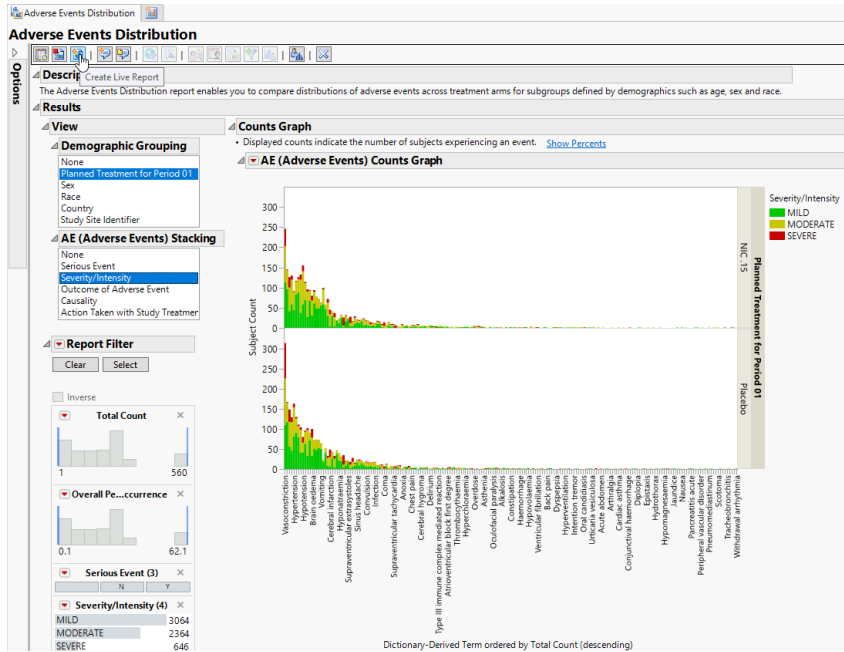
# JMP Clinical to JMP Live (Demo)

- 1. Run a Clinical report or review.



# JMP Clinical to JMP Live (Demo)

## 2. Publish using “Create Live Report”.



Create Live Report

Publish Notes

Specify JMP Live Publishing Options

Publish to: **JMP Live**  Publish Data  Allow data to be downloaded

URL:

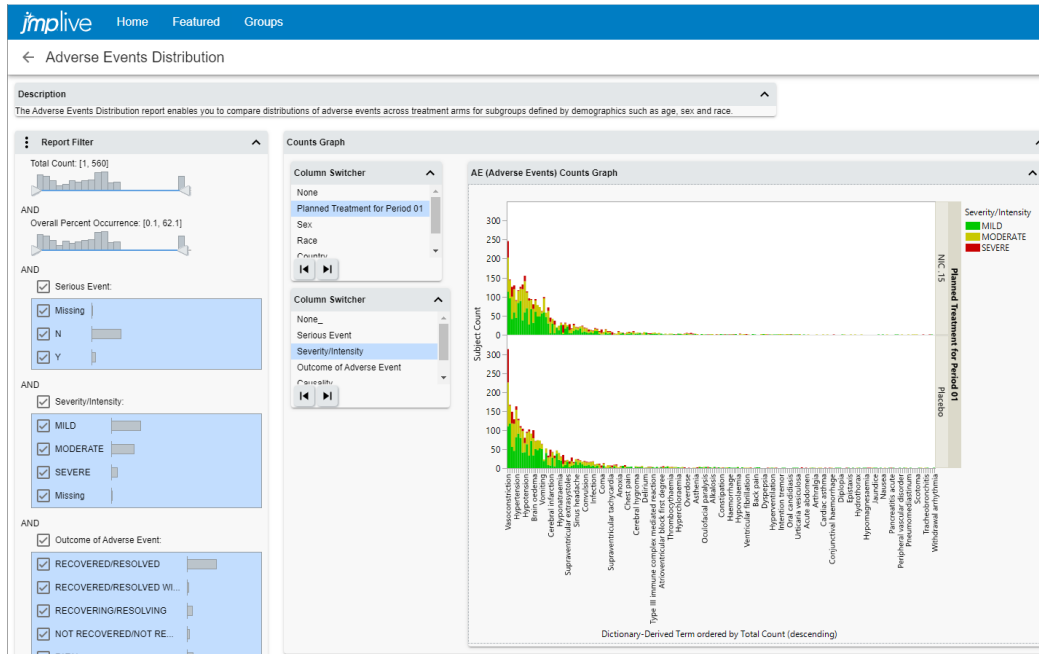
Share with:

- Only me
- Everyone
- Groups

Groups:

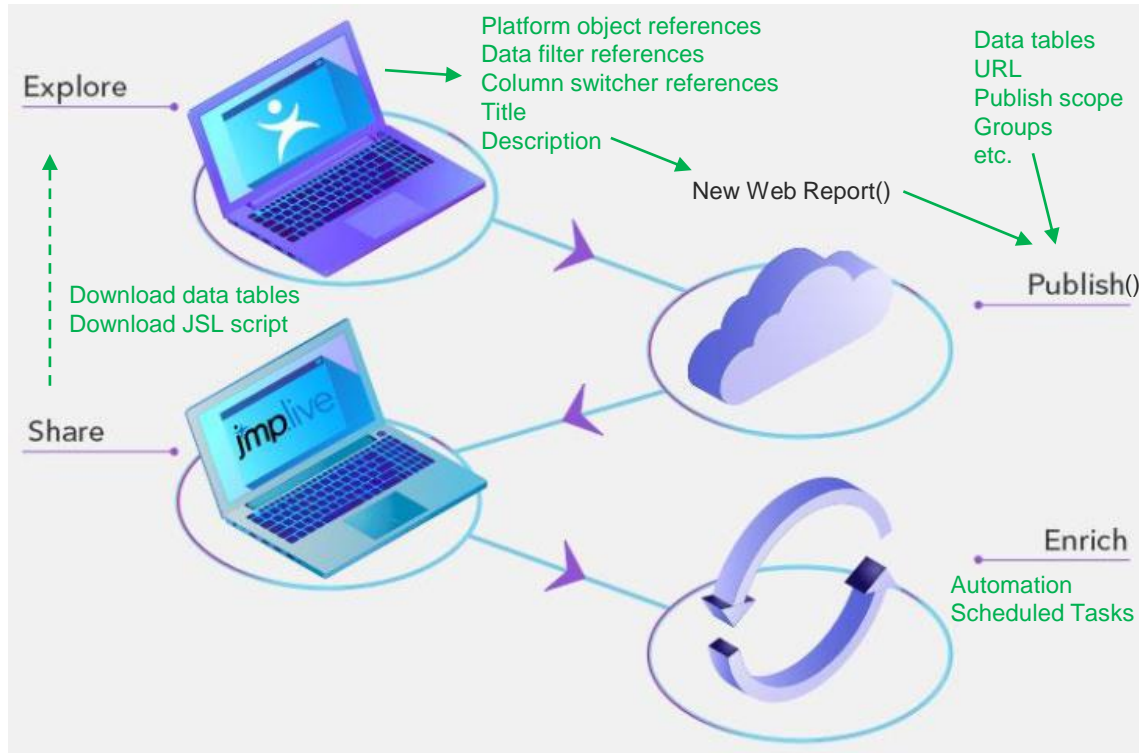
# JMP Clinical to JMP Live (Demo)

- 3. View and explore on JMP Live.





# Script Publishing to JMP Live



[https://www.jmp.com/en\\_us/software/collaborative-analytics-software.html](https://www.jmp.com/en_us/software/collaborative-analytics-software.html)

# References

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- JMP Clinical. [https://www.jmp.com/en\\_us/software/clinical-data-analysis-software.html](https://www.jmp.com/en_us/software/clinical-data-analysis-software.html)
- JMP Live. [https://www.jmp.com/en\\_us/software/collaborative-analytics-software.html](https://www.jmp.com/en_us/software/collaborative-analytics-software.html)
- Zambrano RN and Engelhardt Y. Diagrams for the masses: Raising public awareness—from Neurath to Gapminder and Google Earth. In *Diagrammatic Representation and Inference*. Vol. 5223/2008, Heidelberg, Berlin: Springer-Verlag, 2008, pp. 282–292.