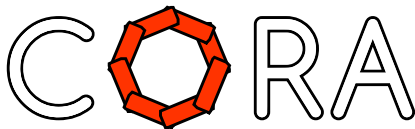


# The cora-macs Package

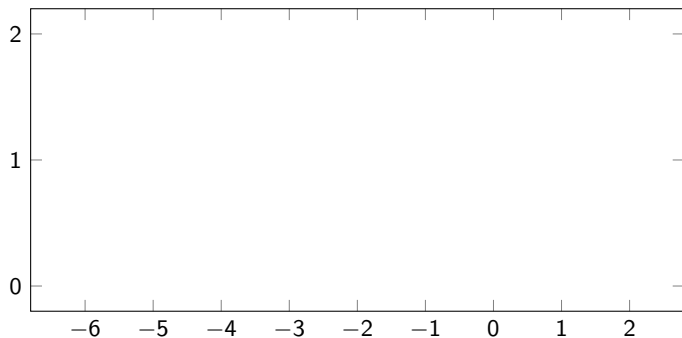
Tobias Ladner, Lukas Koller  
TUM - Cyber-Physical Systems Group  
tobias.ladner@tum.de, lukas.koller@tum.de

2024-12-11



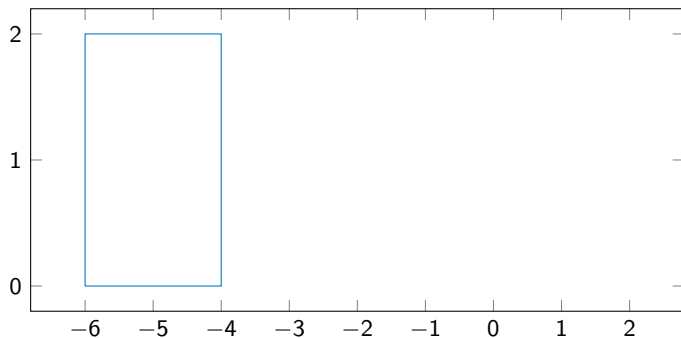
# Introduction to CORA

CORA provides you with a wide range of plotting capabilities:



# Introduction to CORA

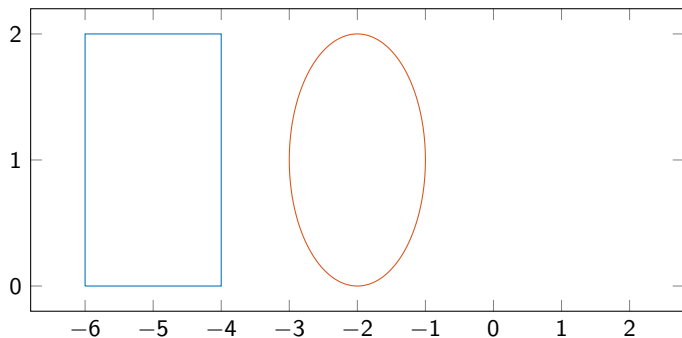
CORA provides you with a wide range of plotting capabilities:



We can plot intervals,

# Introduction to CORA

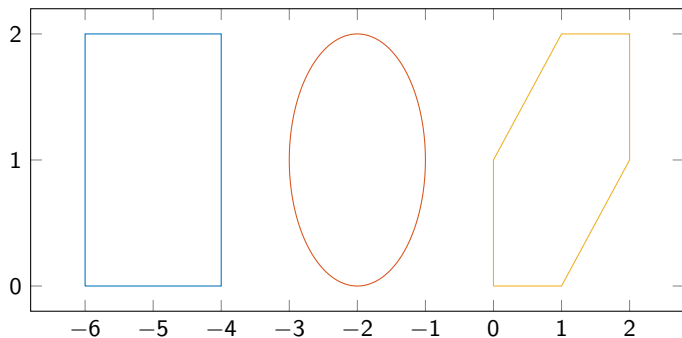
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We can plot intervals, ellipsoids,

# Introduction to CORA

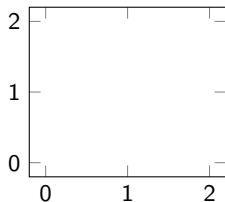
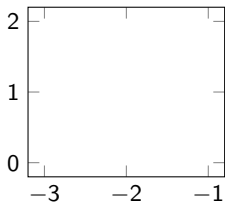
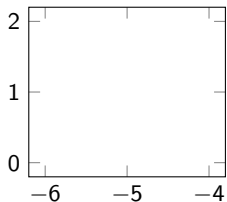
CORA provides you with a wide range of plotting capabilities:



We can plot intervals, ellipsoids, and zonotopes!

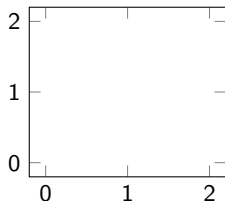
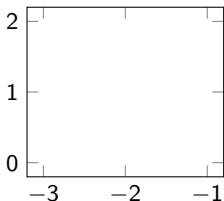
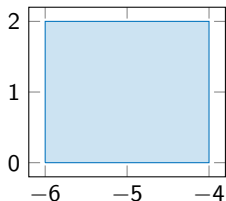
## Figures with Multiple Subplots

These animations also work for figures with multiple subplots and one can even get more advanced using the `alt` option:



## Figures with Multiple Subplots

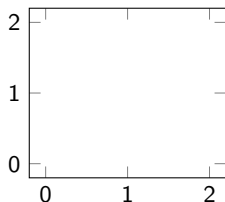
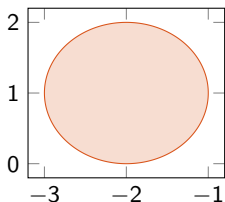
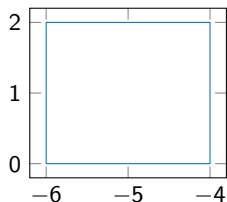
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We can plot intervals,

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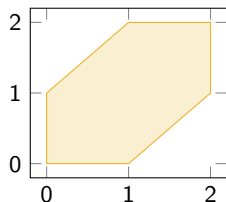
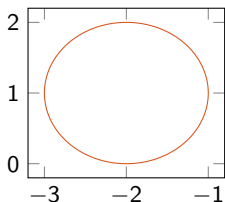
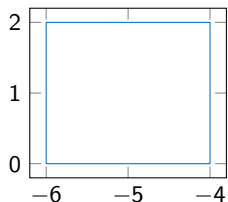


We can plot intervals, ellipsoids,



## Figures with Multiple Subplots

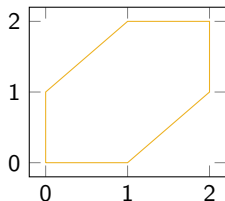
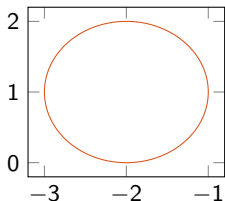
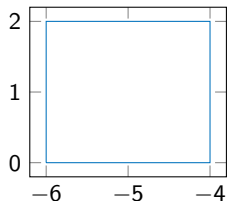
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We can plot intervals, ellipsoids, and zonotopes!

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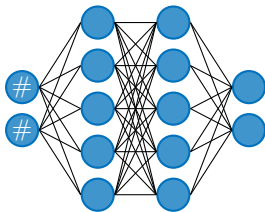
We can plot intervals, ellipsoids, and zonotopes!

## Show Information on Specific Overlays

Use `\only` to show text on specific overlays.

*Example:*

An input is propagated layer by layer through a neural network to compute its output.

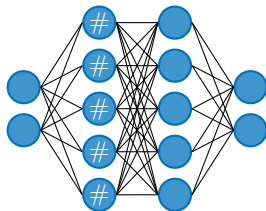


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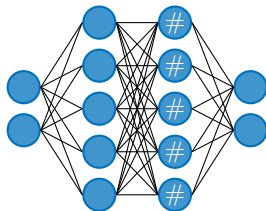


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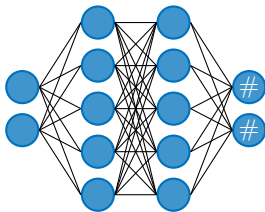


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## Conclusion

We hope this short presentation gave a good overview about the capabilities of the `cora-macs` package to visualize and animate your TikZ figures.

If you have any questions, don't hesitate to contact us.