# Sudden gains in cognitive therapy for PTSD

# Can large and stable improvements between sessions help us to understand how therapy works?

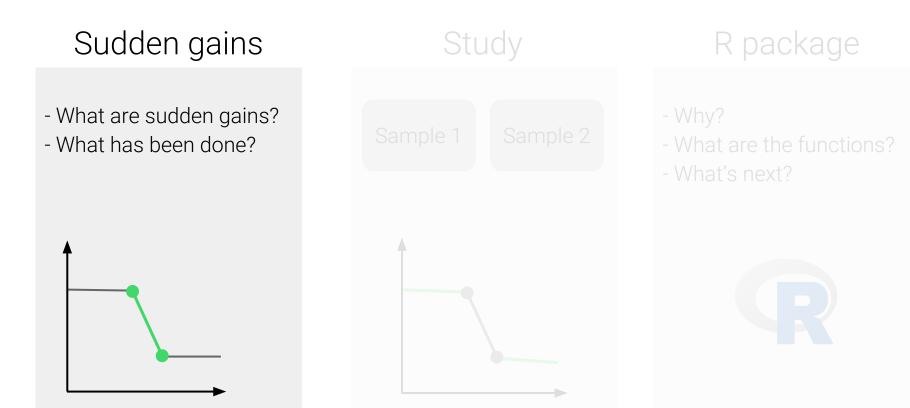


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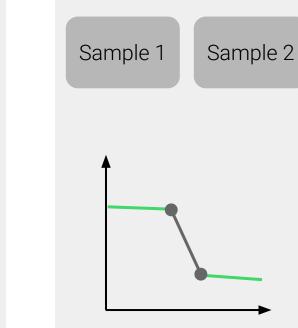




# Sudden gains

- What are sudden gains?

- What has been done?

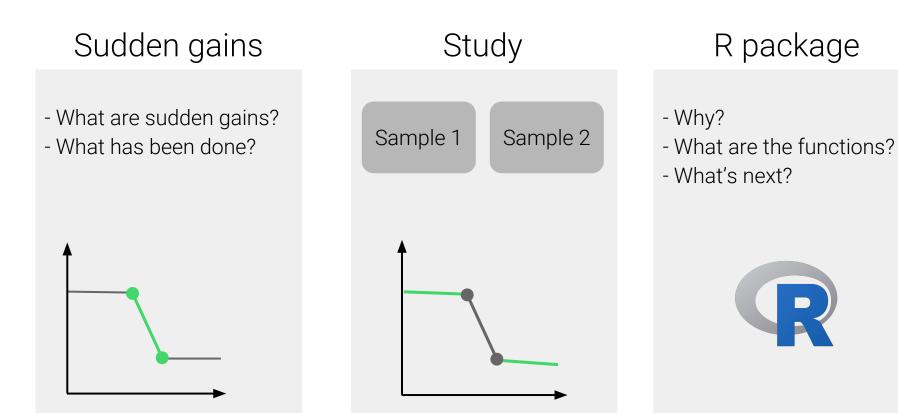


# Study

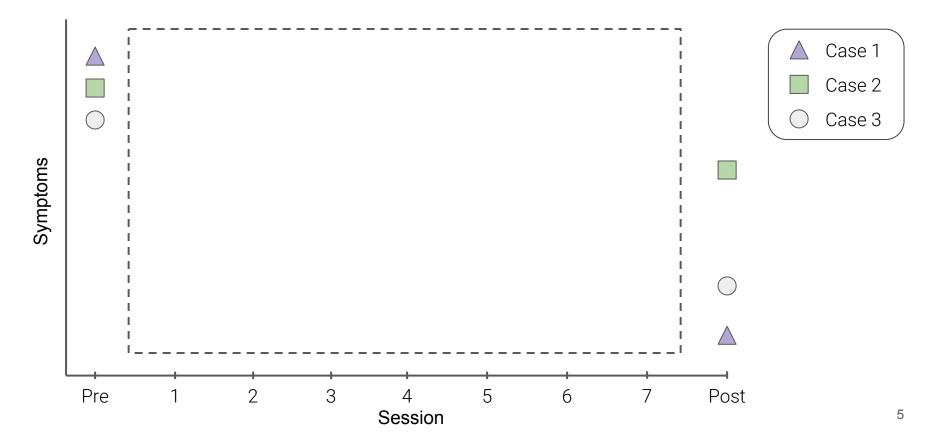
## R package

Why?What are the functions?What's next?

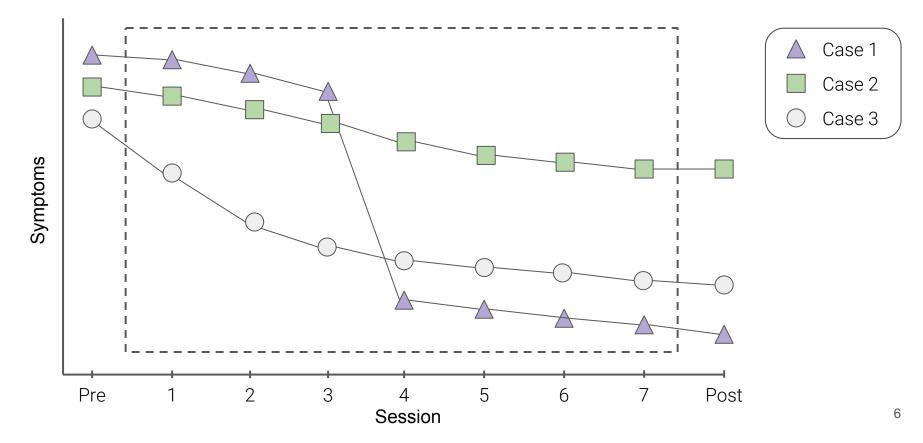


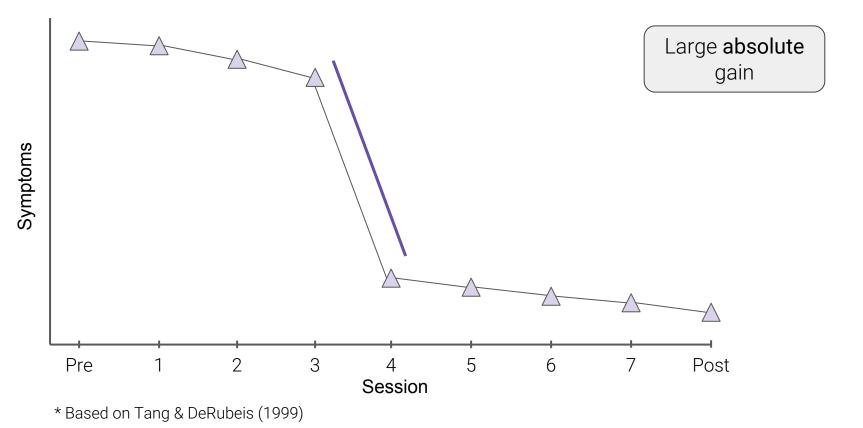


## Therapy trajectories between pre & post?

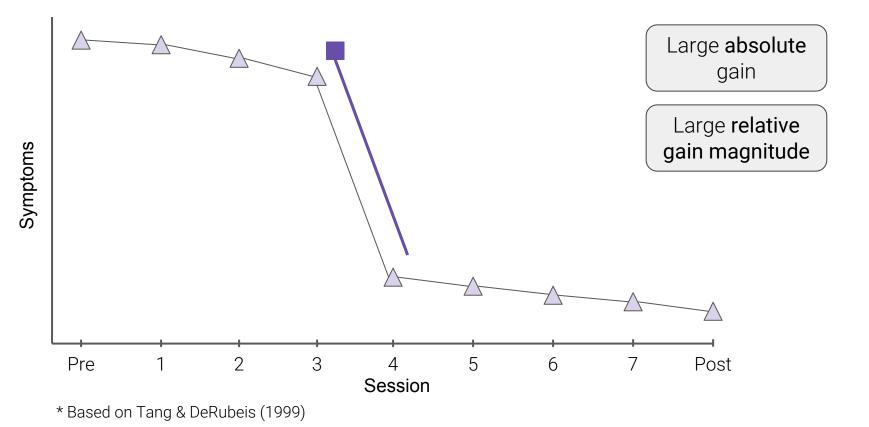


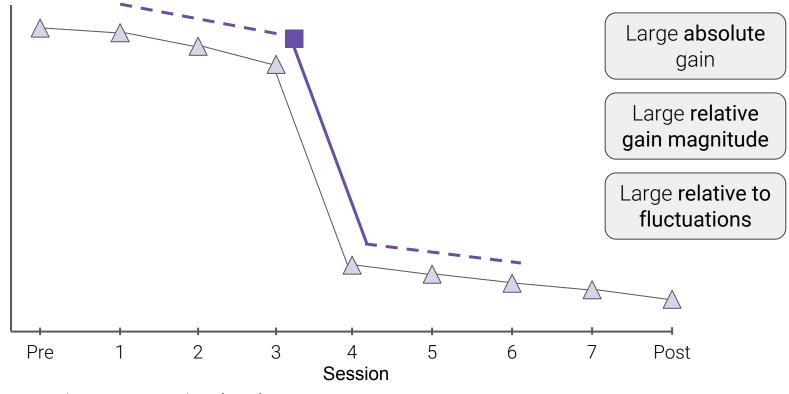
## Therapy trajectories between pre & post?



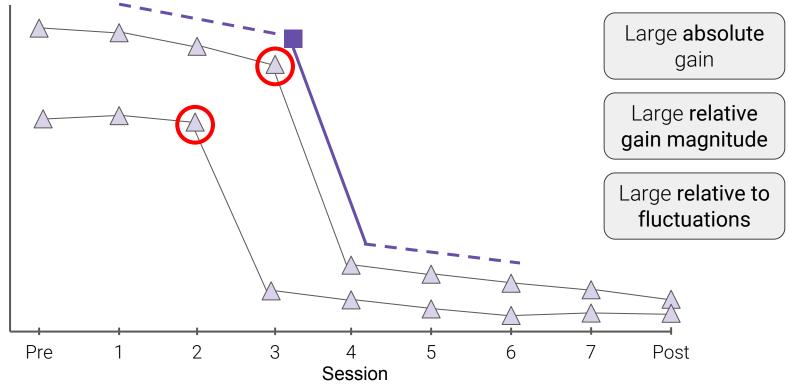


7





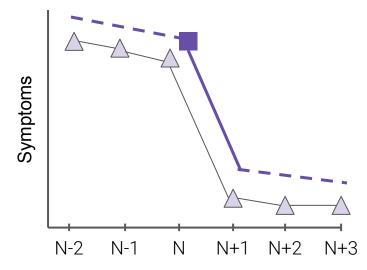
\* Based on Tang & DeRubeis (1999)



Symptoms

<sup>\*</sup> Based on Tang & DeRubeis (1999)

# Identifying sudden gains - Step by step



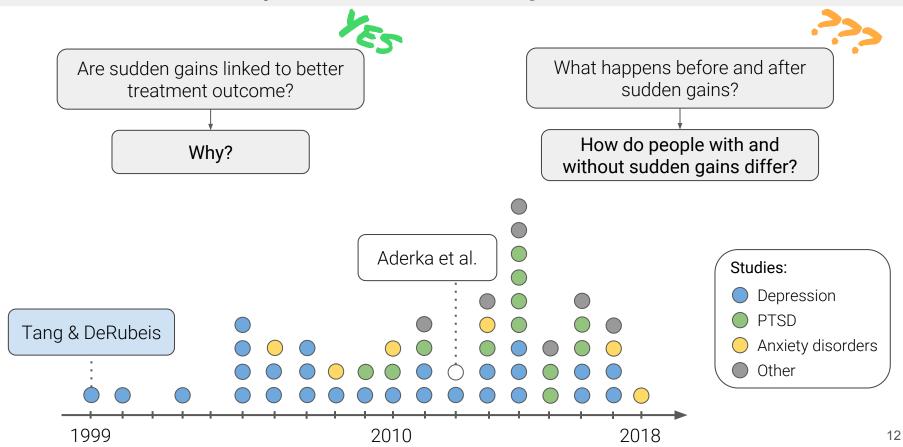


id	s1	s2	s3	s4	s5	sб	s7
1	60	50	40	30	20	10	10
2	55	55	50	20	NA	10	0
3	50	40	30	30	30	20	10
4	50	40	50	40	30	5	0

Large absolute gain

Large **relative gain magnitude**  Large **relative to** fluctuations

# Summary of the sudden gains literature



# Sudden gains

- What are sudden gains? - What has been done?



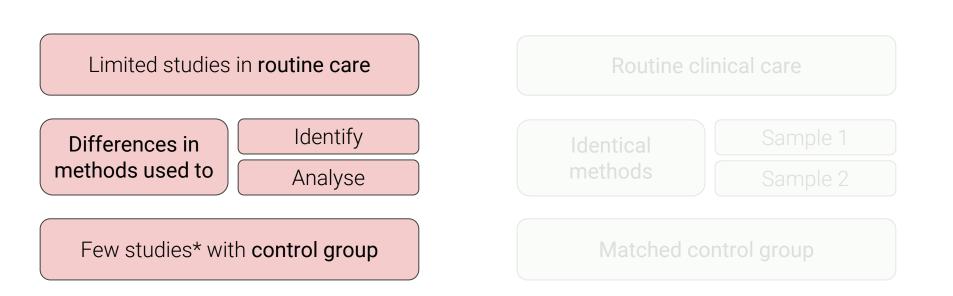
# Study Sample 1 Sample 2

## R package

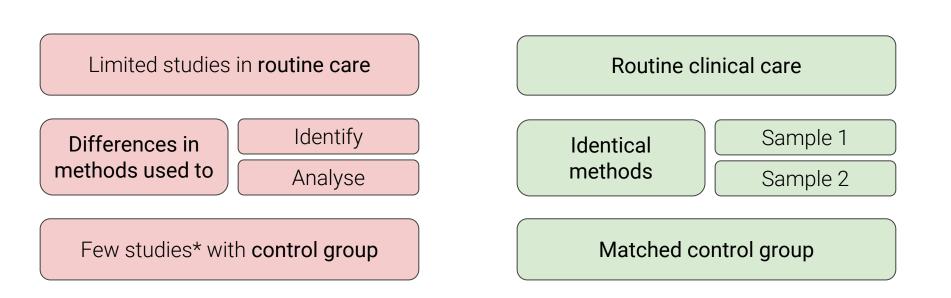
Why?What are the functions?What's next?



# Key challenges & Aims



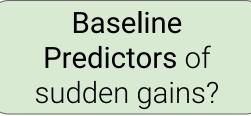
# Key challenges & Aims

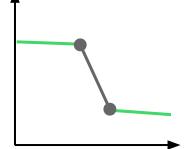


# Research questions

How do process variables<sup>\*1</sup> and symptoms<sup>\*2</sup> change **before**, **during**, and **after** sudden gains?

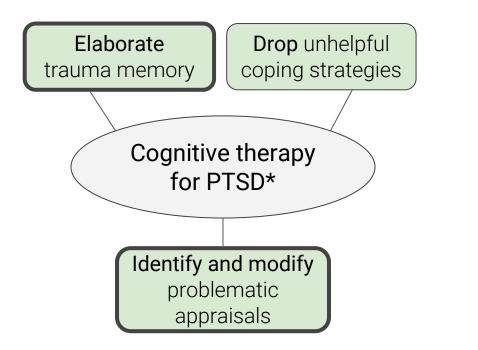
\*1 Negative appraisals, memory characteristics.
\*2 Depression and anxiety symptoms.





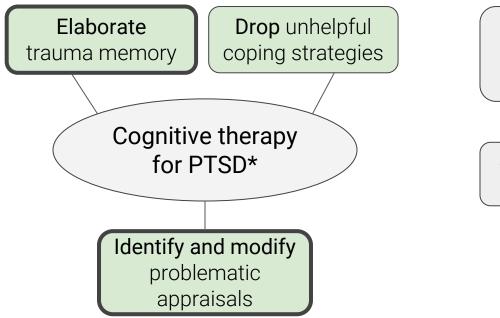
Differences in treatment outcomes at **end** and **follow up**?

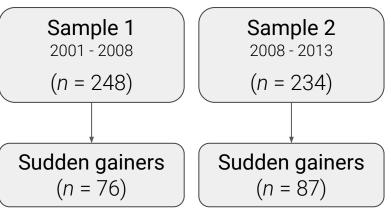
# **Treatment & Samples**



\* Based on Ehlers and Clark (2000) and Ehlers et al. (2005).

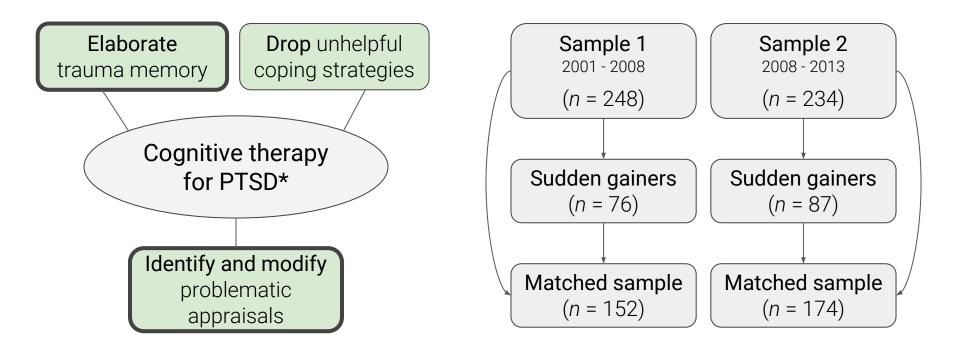
# **Treatment & Samples**





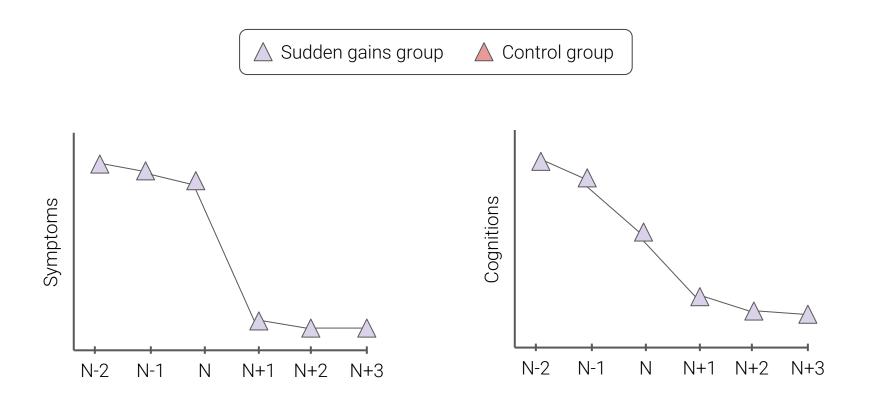
\* Based on Ehlers and Clark (2000) and Ehlers et al. (2005).

# **Treatment & Samples**

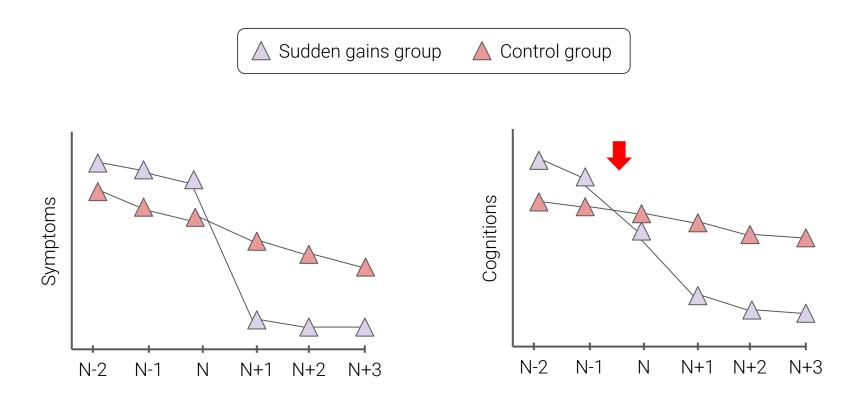


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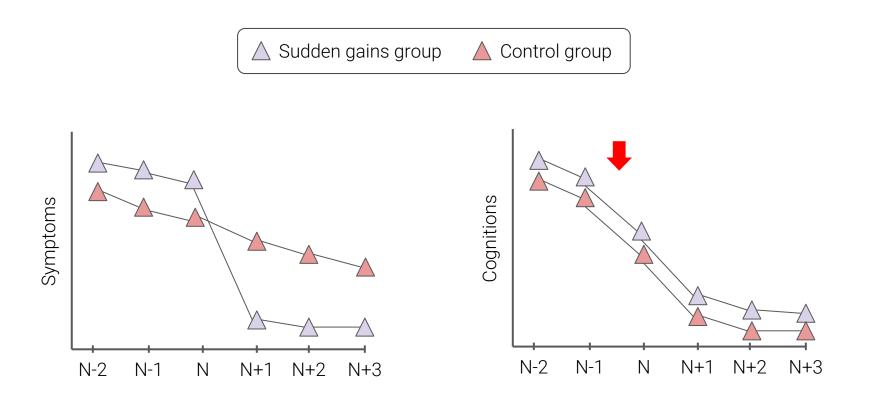
# Why is it important to have a **control group**?



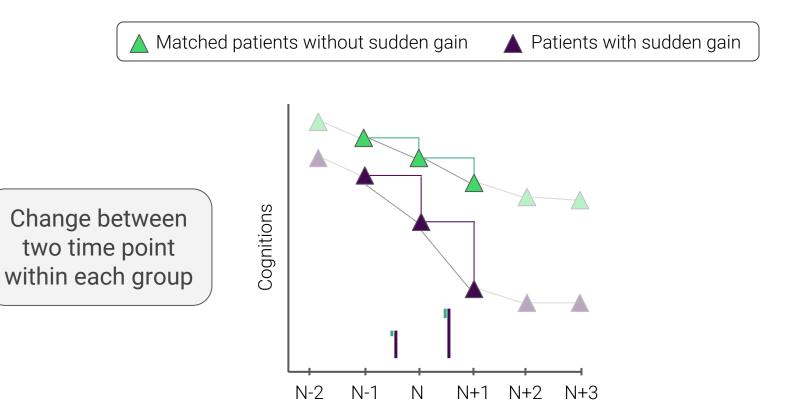
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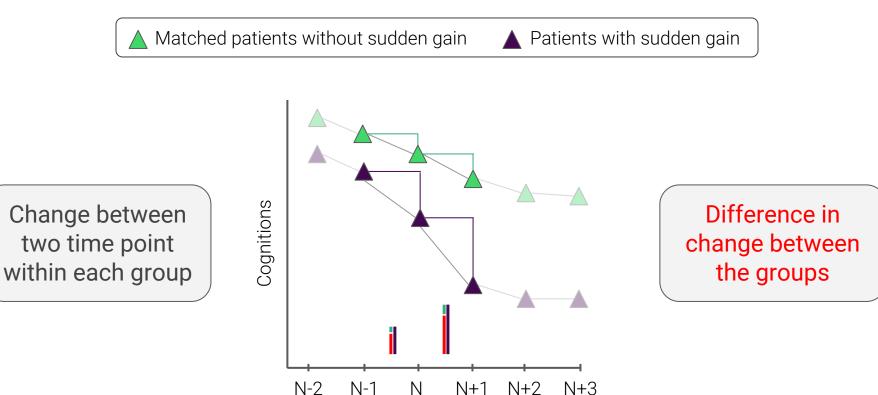


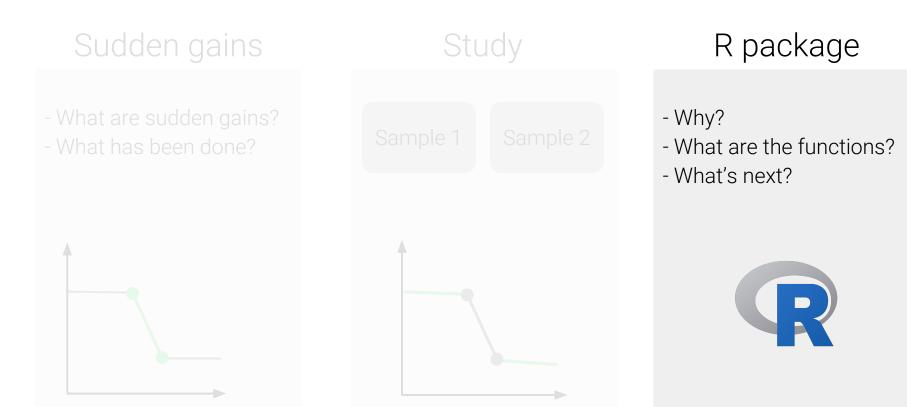
# Modeling approach



23

# Modeling approach





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# > What is $\mathbf{R}$ ?

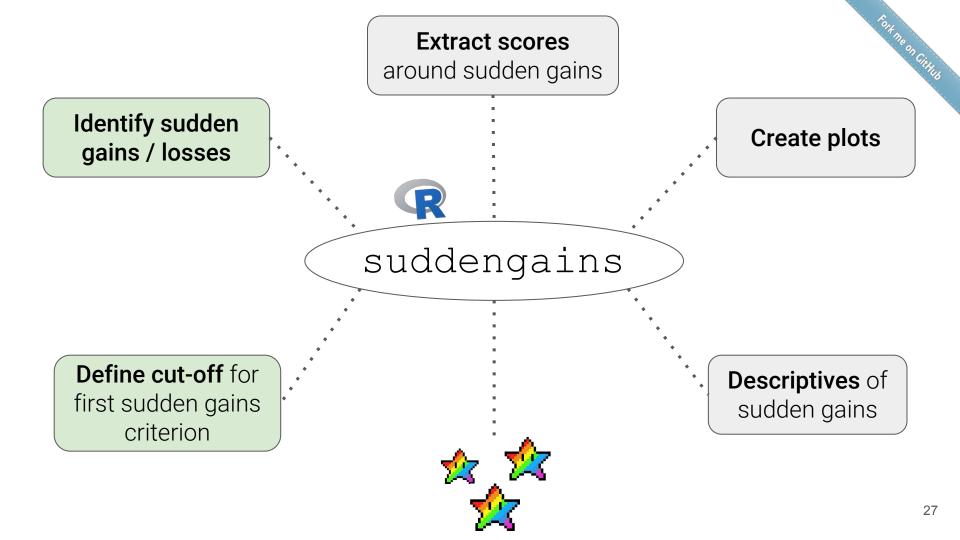


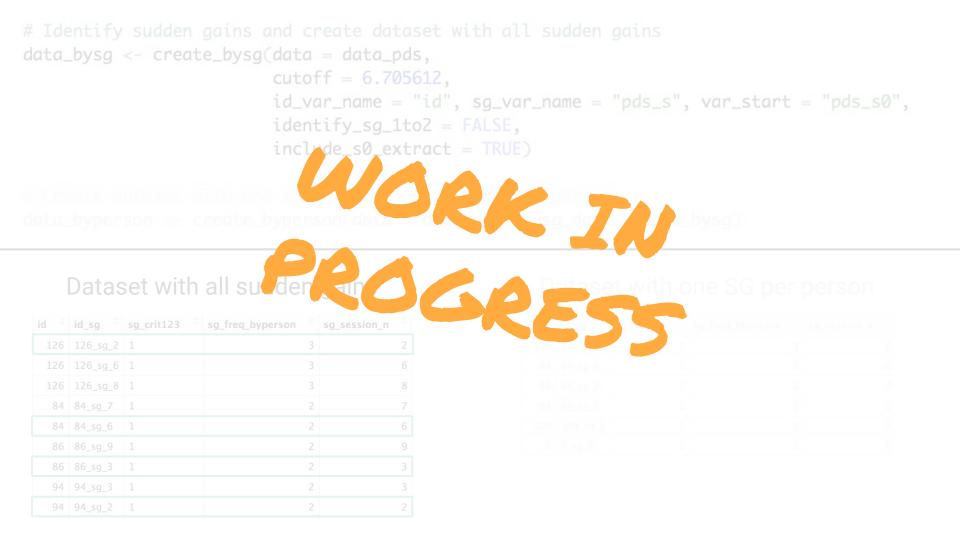












# Acknowledgements

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# Thank you



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