



# DIRECTED ACYCLIC GRAPH(DAG)

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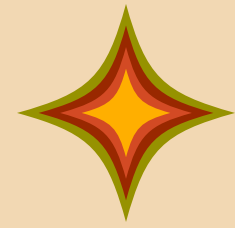
# PRESENTATION OUTLINE



Introduction



Used for



Properties



Examples



Application area



Case Study



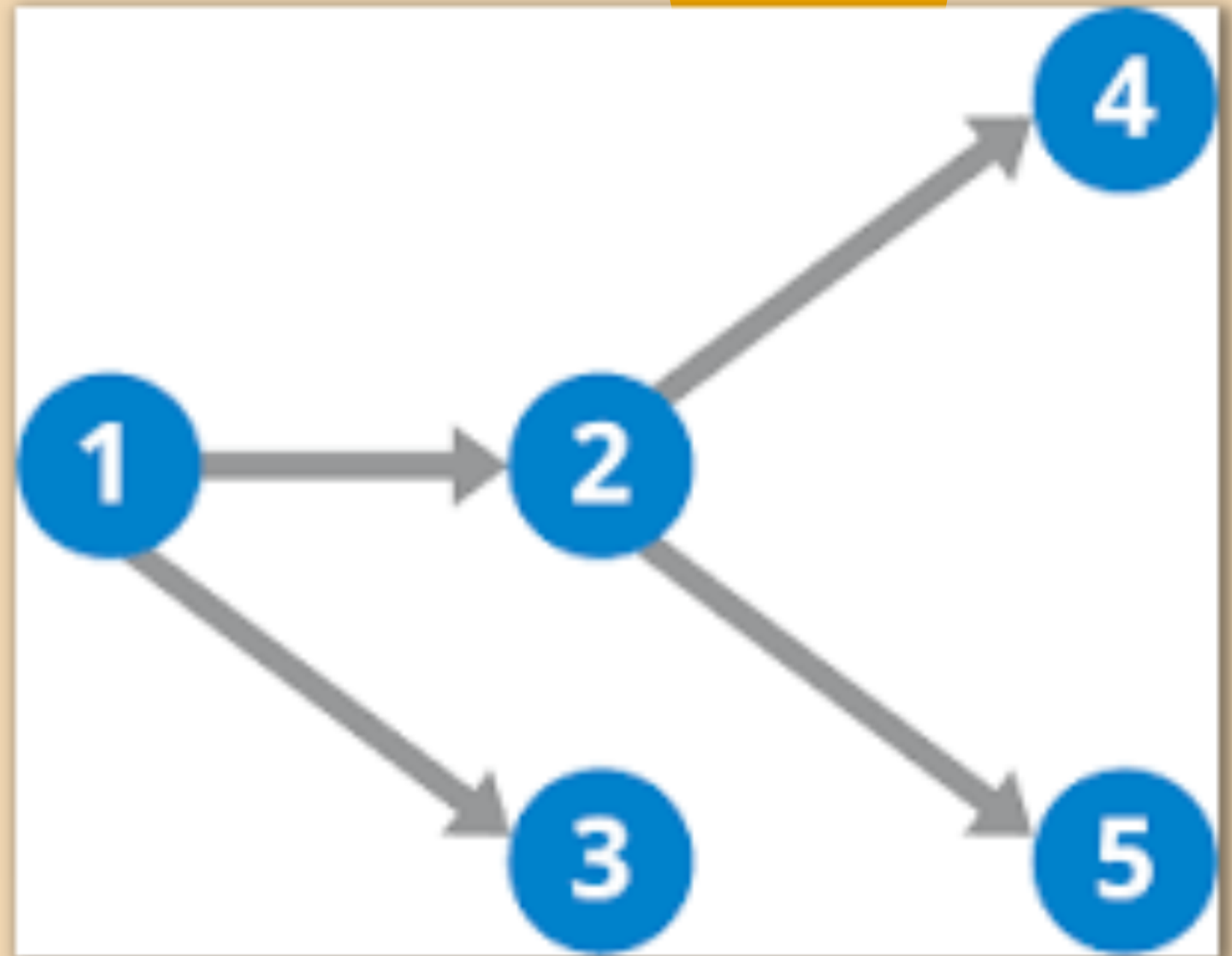


# INTRODUCTION



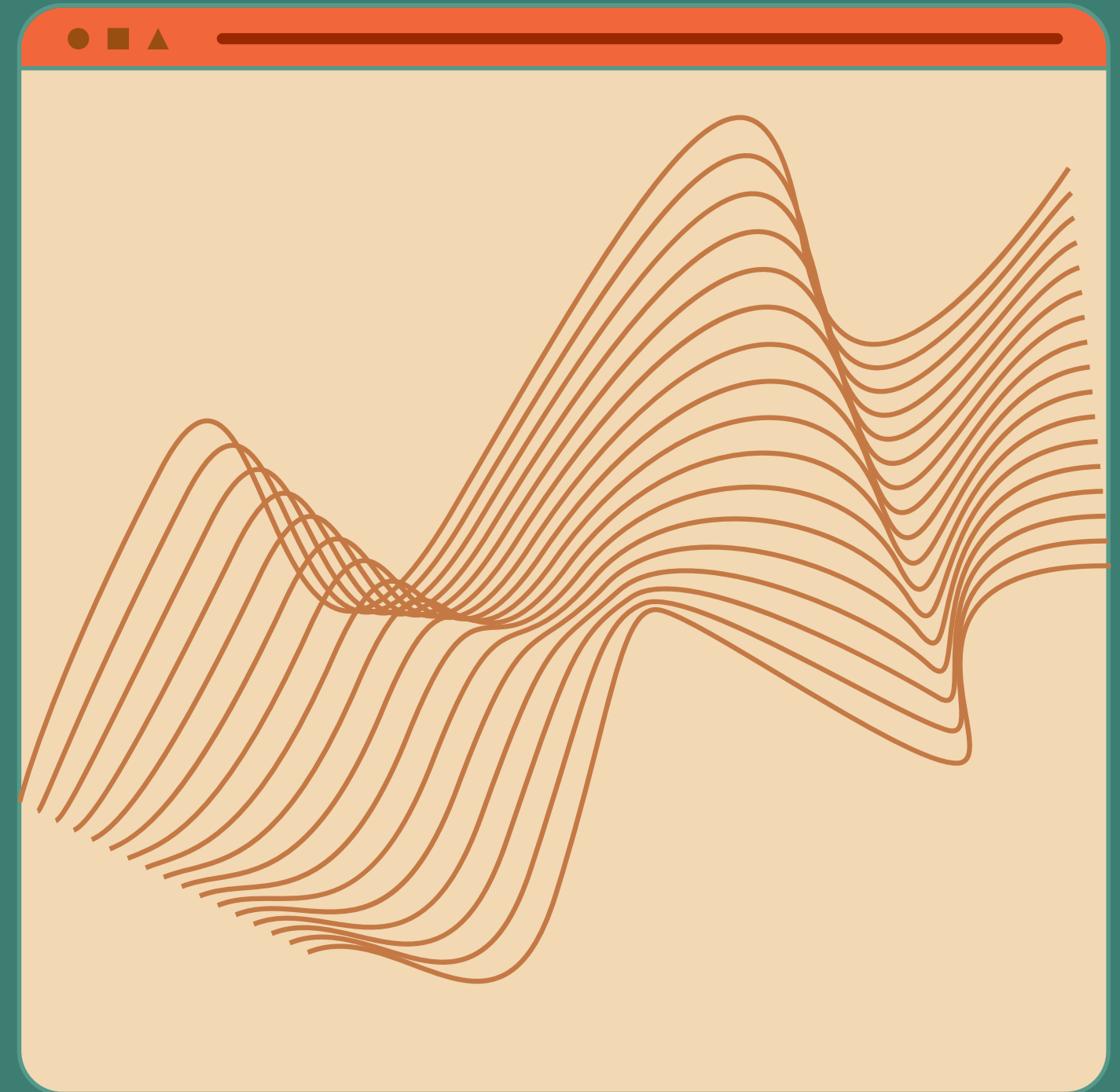
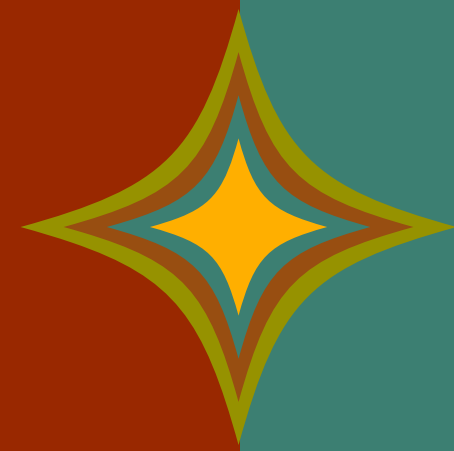
# DEFENITION OF DAG

Conceptual representation  
of a series of activities.



# USED FOR

- used to represent the structure of basic blocks, to visualize the flow of values between basic blocks, and to provide optimization techniques in the basic block



# PROPERTIES OF DAG

**PROCESS  
TRANSACTIONS  
WITHOUT  
WAITING FOR  
BLOCKS.**

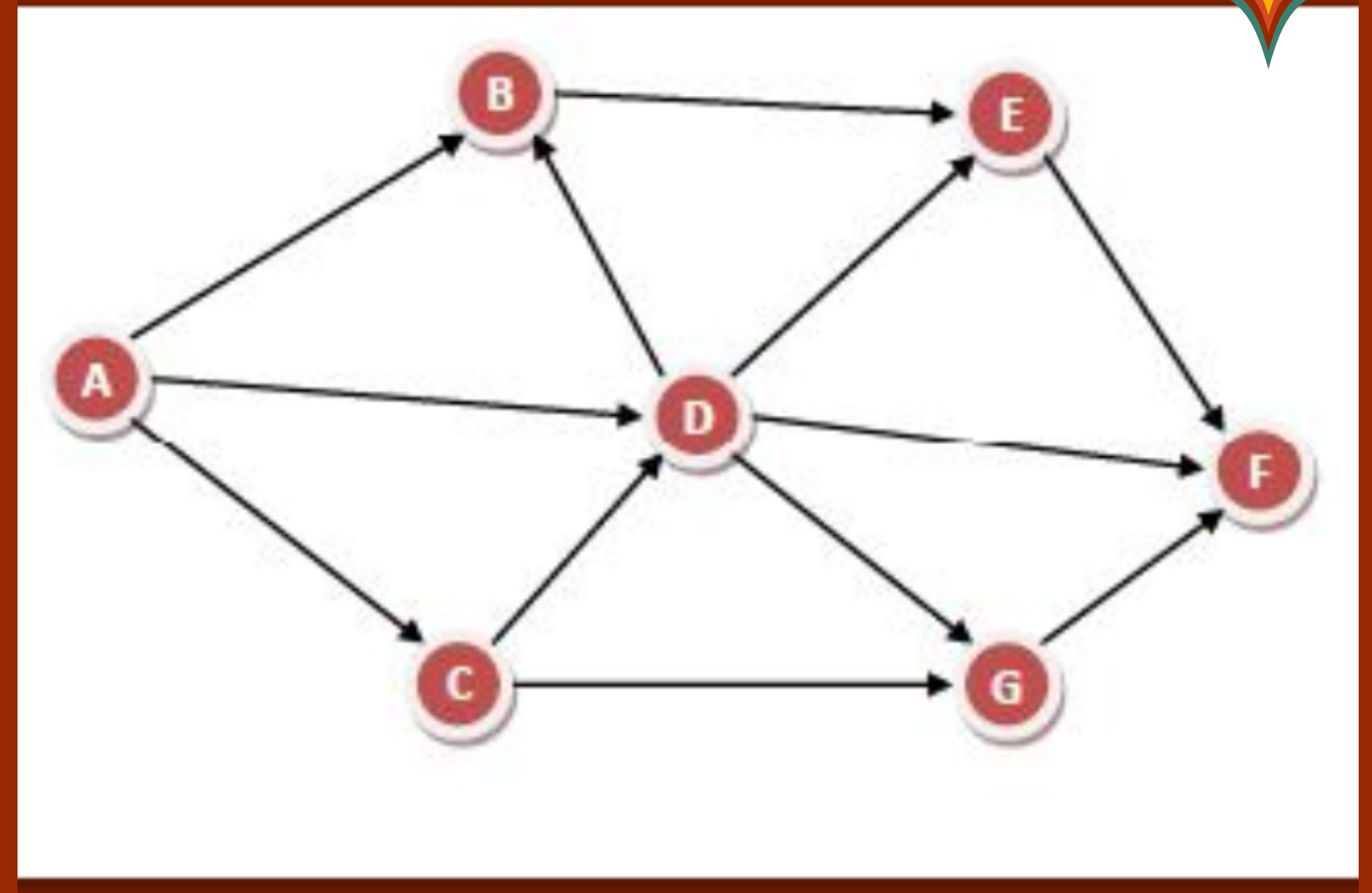
**SAVE ENERGY**

**PROCESSING  
MICROPAYMENTS**



# EXAMPLE

a graph refers to a set of vertices that are connected by lines called edges. In a directed graph or a digraph, each edge is associated with a direction from a start vertex to an end vertex.



# APPLICATION AREAS

- Routing in computer networks
- Job scheduling
- Data processing
- Genealogy
- Citation graphs





# CASE STUDY USE OF DIRECTED ACYCLIC GRAPHS (DAGS)

## A TOOL FOR CAUSAL STUDIES IN PEDIATRICS

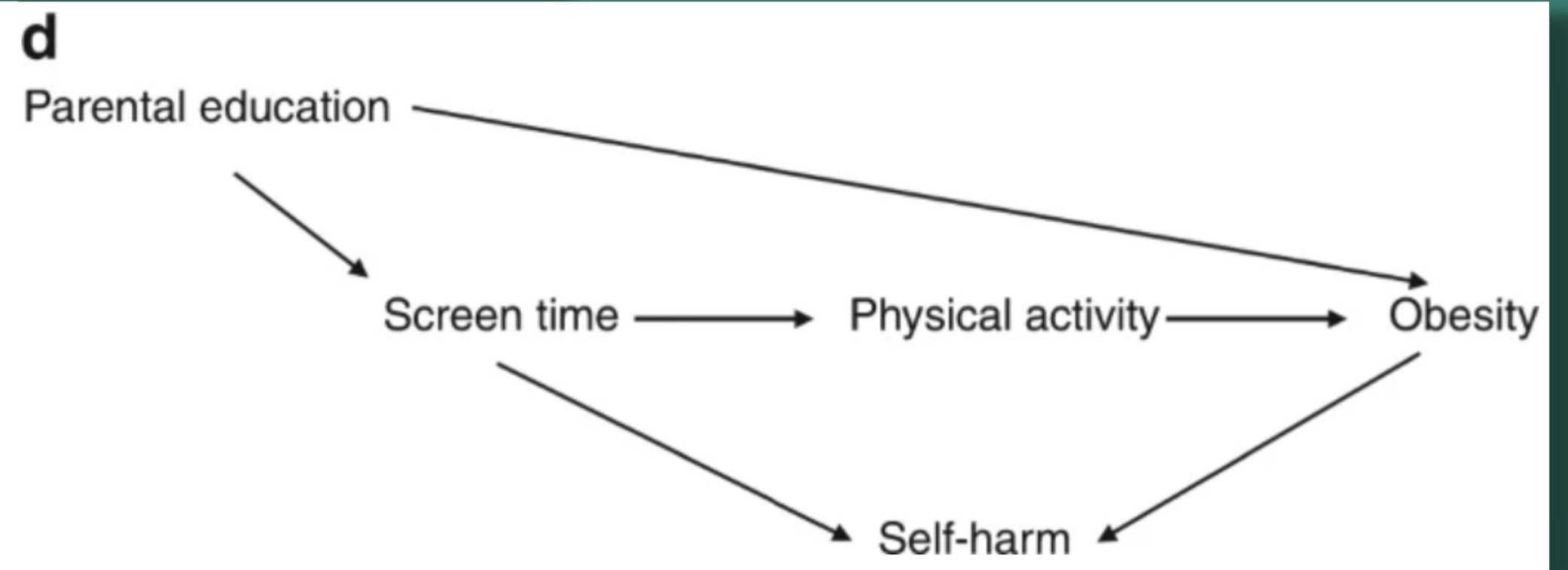
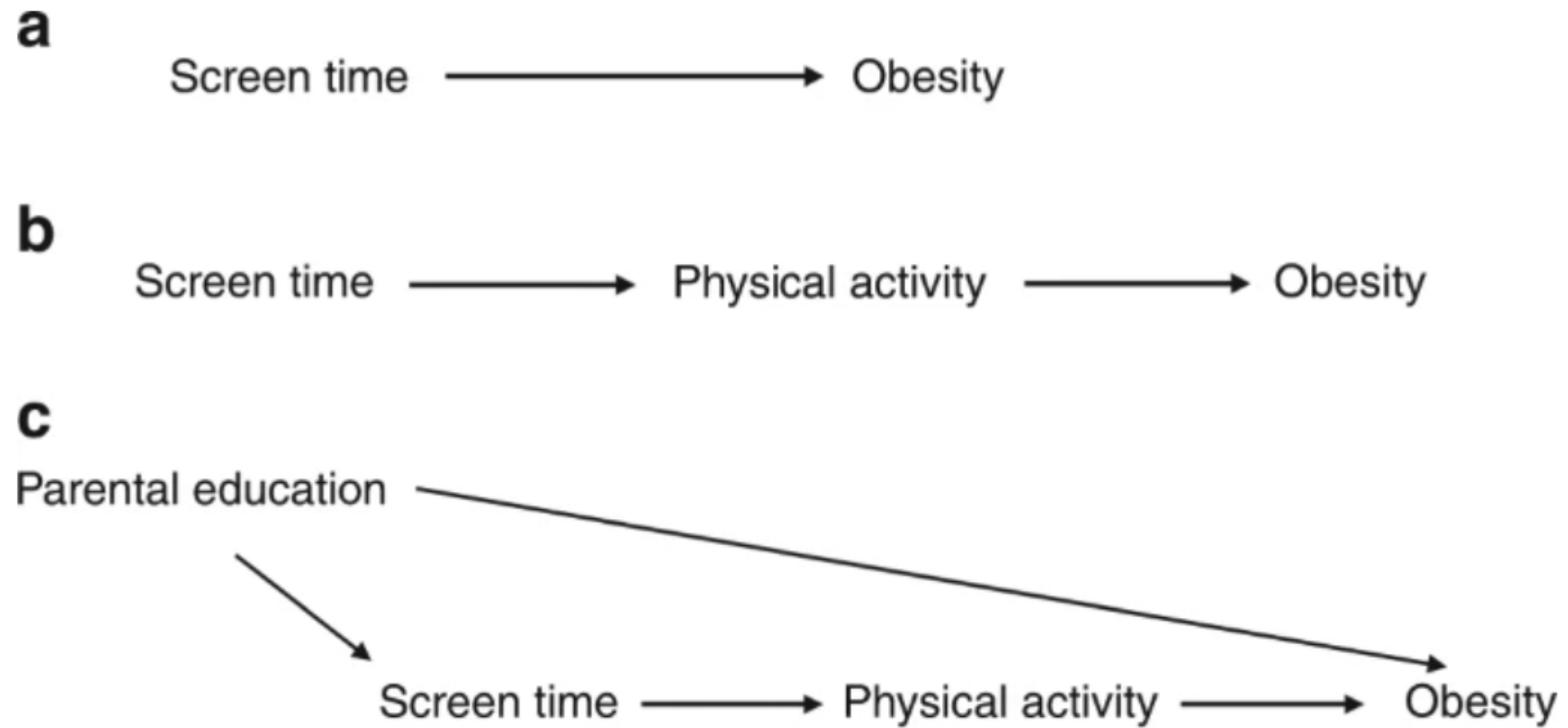
### MAIN ISSUE

FIND A SIMPLE WAY OF GRAPHICALLY KEY CONCEPTS OF RELEVANCE TO PRACTICING CLINICIANS AND RESEARCHERS

### SOLUTION

THE USE OF A GRAPHICAL TOOL, CAUSAL DIRECTED ACYCLIC GRAPHS (DAGS).

# CASE STUDY



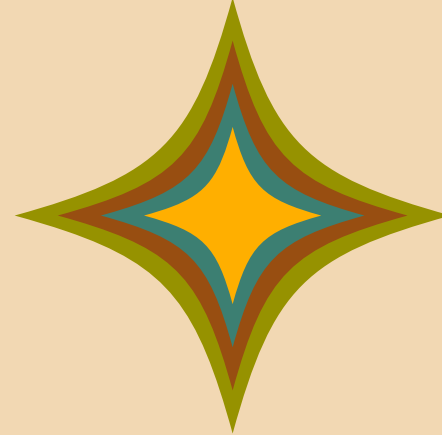
# CASE STUDY

## CONCLUSION

1. OUTLINING SOME OF THE LIMITATIONS OF DAGS
2. CONCLUDING THOUGHTS ON HOW DAGS MIGHT PROVE USEFUL FOR RESEARCHERS AND CLINICIANS.

# REFERENCES

1. [HTTPS://WWW.TUTORIALSPOINT.COM/DIRECTED-ACYCLIC-GRAPH-DAG](https://www.tutorialspoint.com/directed-acyclic-graph-dag)
2. [HTTPS://LEARN.BYBIT.COM/CRYPTO/WHAT-IS-A-DIRECTED-ACYCLIC-GRAPH-DAG/](https://learn.bybit.com/crypto/what-is-a-directed-acyclic-graph-dag/)
3. WILLIAMS, T. C., BACH, C. C., MATTHIESEN, N. B., HENRIKSEN, T. B., & GAGLIARDI, L. (2018). DIRECTED ACYCLIC GRAPHS: A TOOL FOR CAUSAL STUDIES IN PAEDIATRICS. PEDIATRIC RESEARCH, 84(4), 487-493.



THANK YOU!

