

# JOURNEY TO YOUR BEST

**WHAT'S THE TOP-DOWN APPROACH AND HOW TO  
APPLY IT TO THE ASSIGNMENT?**





**01**

**TOP-DOWN  
APPROACH?**

**02**

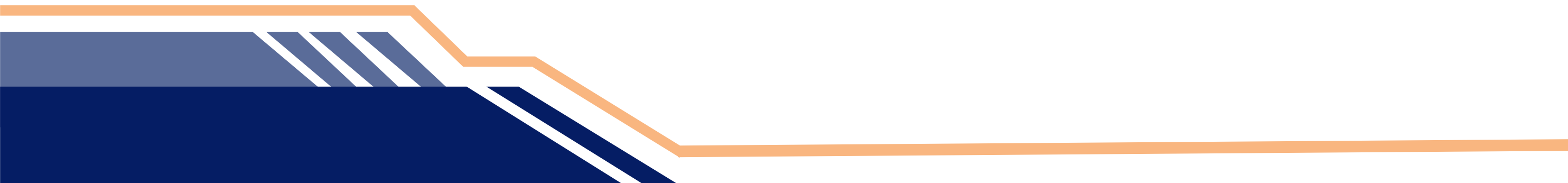
**HOW DOES THE TOP-DOWN  
APPROACH WORK?**

**03**

**HOW TO APPLY THE TOP-DOWN  
APPROACH?**

**04**

**CONCLUTIONS**





# **01: TOP-DOWN APPROACH?**





# WHAT'S A TOP-DOWN APPROACH?

- The approach from top-down is a method of problem-solving by looking at the overall system/problem first, and then breaking it down into smaller parts.
- It keep breaking these modules until they can't be broken anymore. This process, known as '**modularization**'.



# WHAT'S THE MODULARIZATION PROCESS?

1. Clearly define the main goal.
2. Divide it into independent modules.
3. Further break down each module.
4. Handle each module independently.
5. Repeat steps 2, 3, and 4, adjusting for clarity and efficiency





**WHY SHOULD ONE USE A  
TOP-DOWN APPROACH?**



# ADVANTAGES OF TOP-DOWN APPROACH

1. Understand the overall system and structure before delving into details.
2. Clearly grasp the goal that needs to be achieved.
3. Manage details effectively by breaking down large modules into smaller, independent ones.
4. Easily adjust and update when issues arise without affecting other modules.
5. Save time.

# DISADVANTAGES OF TOP-DOWN APPROACH

1. Difficult to change the approach once the project has started.
2. Easy to overlook opportunities or important details.
3. Dependency on the initial design provided.
4. Waste of time
5. It isn't always the best solution.



# WHEN SHOULD A TOP-DOWN APPROACH BE USED?

- The problems are complex.
- Understand the big picture before delving into details.
- Knowing the final output.





# WHERE SHOULD A TOP-DOWN APPROACH BE USED?

- The top-down approach is versatile and applicable in any context.
- It can be utilized at all levels.
- It is most effective for problems that already have optimized and efficient outputs.



# WHO THE COMPANIES USING TOP-DOWN APPROACH?



## 1. Microsoft

**Post:** [Microsoft's Bottom-up and Top-down Approach to change its Siloed Culture](#)



## 2. Apple

**Post:** [Apple vs. Google: Top-down vs. Bottom-up Innovation](#)



## 3. Amazon

**Post:** [Scaling the Cloud: A Journey into AWS with a Top-Down Approach](#)



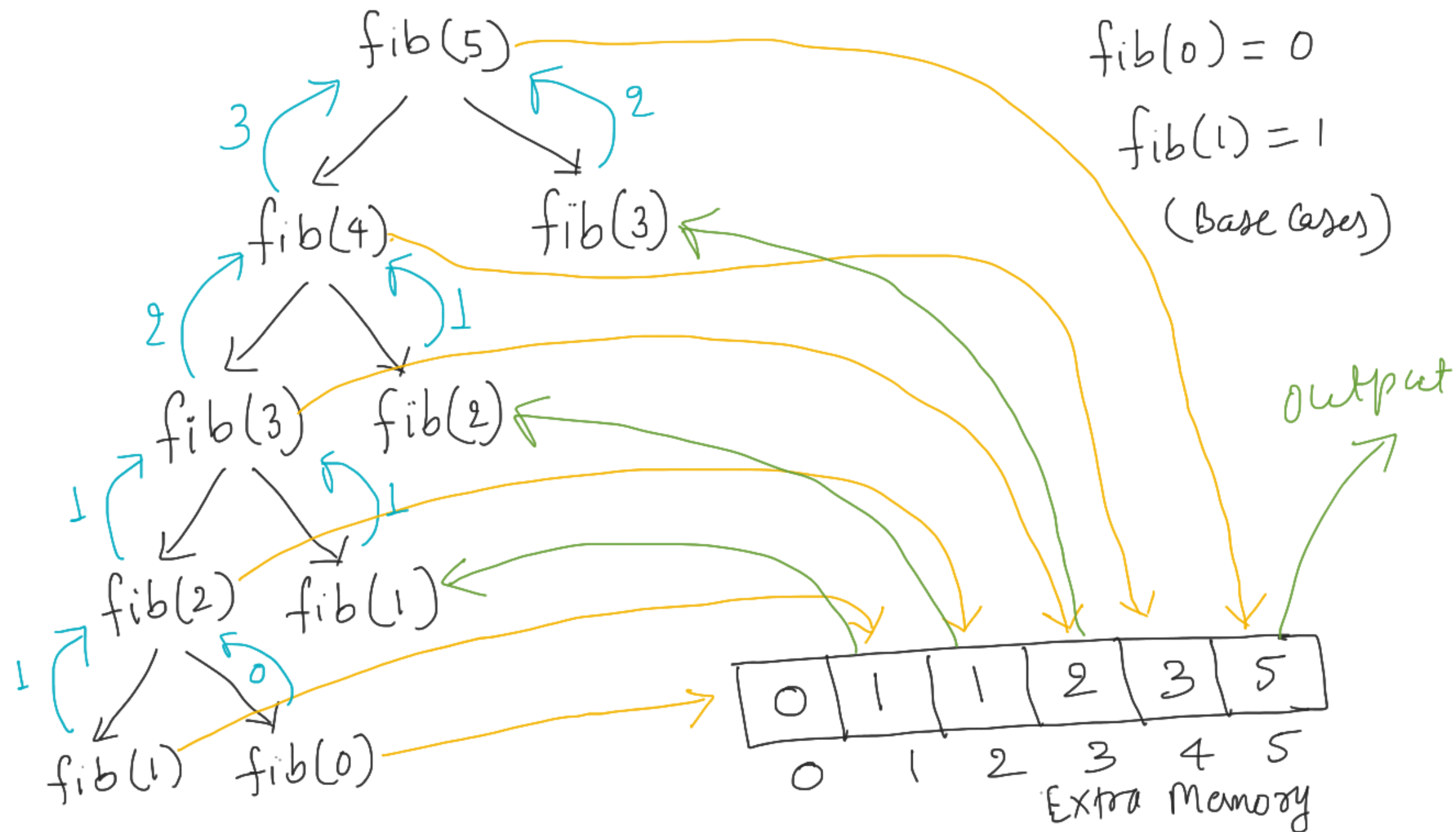


**02:**

# **HOW DOES THE TOP-DOWN APPROACH WORK?**



## Example: Finding the 5<sup>th</sup> Fibonacci using top-down approach.



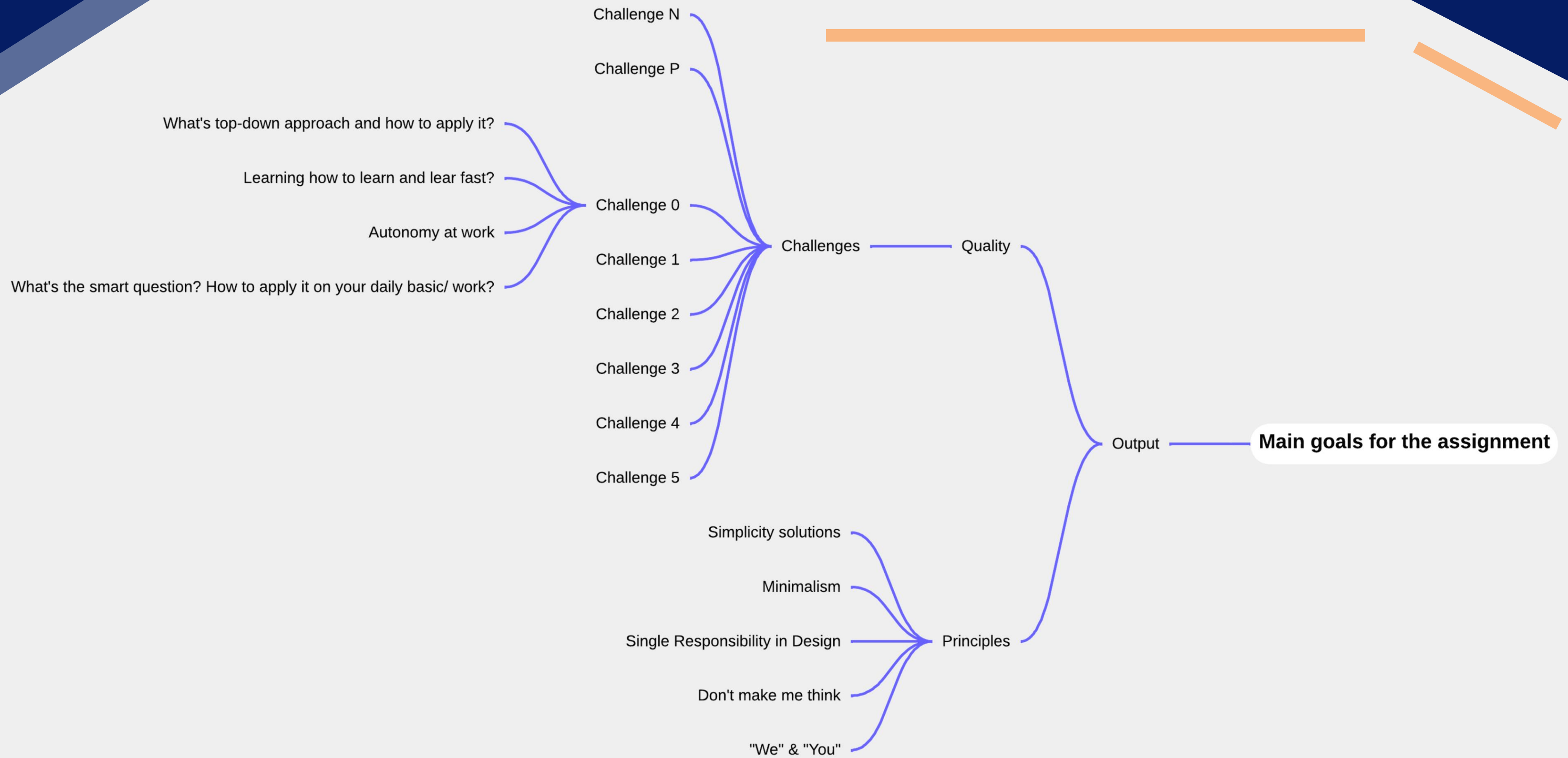


**03:**

# **HOW TO APPLY TOP-DOWN APPROACH?**





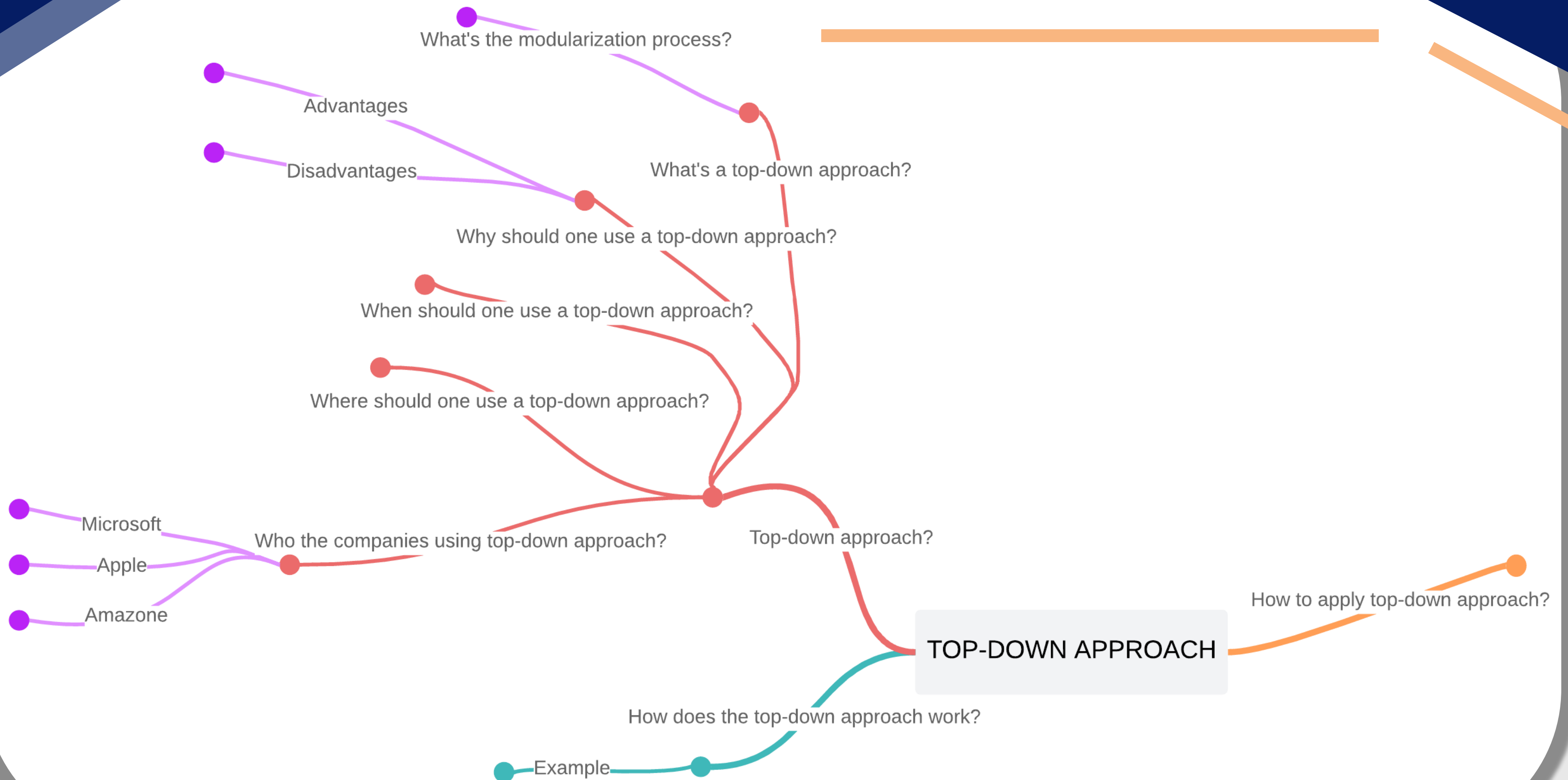




**04:**

# CONCLUTIONS







# THANK YOU FOR READING

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