

FIND THE AVERAGE COST FUNCTION IF COST AND REVENUE ARE GIVEN BY $C(x) = 131 + 7.4x$ AND $R(x) = 8x - 0.01x^2$.

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INTRODUCTION

IN THE WORLD OF ECONOMICS AND BUSINESS ANALYTICS, UNDERSTANDING THE RELATIONSHIP BETWEEN COST, REVENUE, AND PROFIT IS FUNDAMENTAL TO MAKING INFORMED DECISIONS. FOR ENTREPRENEURS AND MANAGERS, ANALYZING HOW COSTS AND REVENUES BEHAVE WITH VARYING LEVELS OF PRODUCTION OR SALES VOLUME CAN LEAD TO OPTIMIZING PROFITS AND ENSURING SUSTAINABLE GROWTH. ONE OF THE CRITICAL TOOLS IN THIS ANALYSIS IS THE COST FUNCTION, REVENUE FUNCTION, AND THEIR DERIVATIVES, SUCH AS THE AVERAGE COST FUNCTION.

IN THIS ARTICLE, WE WILL EXPLORE HOW TO FIND THE AVERAGE COST FUNCTION GIVEN SPECIFIC COST AND REVENUE FUNCTIONS:

- COST FUNCTION: $C(x) = 131 + 7.4x$
- REVENUE FUNCTION: $R(x) = 8x - 0.01x^2$

WE WILL DELVE INTO THE CONCEPTS OF COST FUNCTIONS, REVENUE FUNCTIONS, AND HOW THESE RELATE TO THE AVERAGE COST. MOREOVER, WE WILL ANALYZE THE IMPLICATIONS OF THESE FUNCTIONS AND THEIR GRAPHS TO UNDERSTAND THE BEHAVIOR OF COSTS AND REVENUES AS PRODUCTION VOLUME CHANGES.

UNDERSTANDING COST AND REVENUE FUNCTIONS

BEFORE CALCULATING THE AVERAGE COST FUNCTION, IT IS ESSENTIAL TO UNDERSTAND THE GIVEN FUNCTIONS AND WHAT THEY REPRESENT.

COST FUNCTION, $C(x)$

THE COST FUNCTION $C(x) = 131 + 7.4x$ MODELS THE TOTAL COST INCURRED TO PRODUCE x UNITS OF A PRODUCT.

- THE TERM 131 REPRESENTS THE FIXED COSTS—EXPENSES THAT REMAIN CONSTANT REGARDLESS OF THE PRODUCTION LEVEL, SUCH AS RENT, SALARIES, OR MACHINERY COSTS.
- THE TERM $7.4x$ INDICATES THE VARIABLE COSTS, WHICH CHANGE WITH THE NUMBER OF UNITS PRODUCED. IN THIS CASE, EACH ADDITIONAL UNIT COSTS 7.4 UNITS OF CURRENCY TO PRODUCE.

REVENUE FUNCTION, $R(x)$

THE REVENUE FUNCTION $R(x) = 8x - 0.01x^2$ REPRESENTS THE TOTAL REVENUE GENERATED FROM SELLING x UNITS.

- THE TERM $8x$ SUGGESTS THAT EACH UNIT SOLD BRINGS IN 8 UNITS OF CURRENCY.
- THE TERM $-0.01x^2$ INDICATES THAT AS SALES INCREASE, THERE IS A DIMINISHING MARGINAL REVENUE, PERHAPS DUE TO MARKET SATURATION OR PRICE REDUCTIONS AT HIGHER SALES VOLUMES.

CALCULATING THE AVERAGE COST FUNCTION

THE AVERAGE COST FUNCTION IS A KEY CONCEPT IN ECONOMICS, REPRESENTING THE COST PER UNIT AT A GIVEN PRODUCTION LEVEL. IT PROVIDES INSIGHTS INTO COST EFFICIENCY AND HELPS IDENTIFY THE PRODUCTION LEVEL THAT MINIMIZES COSTS.

DEFINITION OF AVERAGE COST FUNCTION

MATHEMATICALLY, THE AVERAGE COST (AC) AT PRODUCTION LEVEL X IS GIVEN BY:

$$AC(x) = \frac{C(x)}{x}$$

THIS FORMULA DIVIDES THE TOTAL COST BY THE NUMBER OF UNITS PRODUCED, PROVIDING THE COST PER UNIT.

STEP-BY-STEP CALCULATION

GIVEN THE COST FUNCTION:

$$C(x) = 131 + 7.4x$$

THE AVERAGE COST FUNCTION BECOMES:

$$AC(x) = \frac{131 + 7.4x}{x}$$

WE CAN REWRITE THIS AS:

$$AC(x) = \frac{131}{x} + 7.4$$

THIS EXPRESSION INDICATES THAT THE AVERAGE COST COMPRISES TWO PARTS: A FIXED COMPONENT PER UNIT, $\left(\frac{131}{x}\right)$, WHICH DECREASES AS PRODUCTION INCREASES, AND A VARIABLE COMPONENT, 7.4, WHICH REMAINS CONSTANT.

ANALYZING THE AVERAGE COST FUNCTION

UNDERSTANDING THE SHAPE AND BEHAVIOR OF THE AVERAGE COST FUNCTION IS CRUCIAL FOR DECISION-MAKING.

GRAPHICAL BEHAVIOR

- AS $x \rightarrow \infty$, $\left(\frac{131}{x}\right) \rightarrow 0$, SO THE AVERAGE COST APPROACHES 7.4.
- WHEN x IS SMALL, $\left(\frac{131}{x}\right)$ BECOMES LARGE, RESULTING IN HIGH AVERAGE COSTS.
- THE GRAPH OF $AC(x)$ IS A DECREASING FUNCTION THAT APPROACHES 7.4 FROM ABOVE AS PRODUCTION INCREASES.

PRACTICAL IMPLICATIONS

- THE MINIMUM AVERAGE COST OCCURS AT VERY HIGH PRODUCTION LEVELS, WHERE THE FIXED COSTS ARE SPREAD OVER MANY UNITS.
- THE COST PER UNIT IS HIGHEST AT LOW PRODUCTION LEVELS, WHICH CAN BE INEFFICIENT FOR SMALL-SCALE PRODUCTION.

FINDING THE MINIMUM AVERAGE COST

TO DETERMINE THE PRODUCTION LEVEL THAT MINIMIZES THE AVERAGE COST, WE CAN ANALYZE THE FUNCTION $AC(x)$ MATHEMATICALLY.

$$AC(x) = \frac{131}{x} + 7.4$$

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SINCE (7.4) IS CONSTANT, THE MINIMUM OCCURS BY MINIMIZING $(\frac{131}{x})$:

- $(\frac{131}{x})$ DECREASES AS (x) INCREASES.
- THEORETICALLY, $(AC(x))$ DECREASES INDEFINITELY AS $(x \rightarrow \infty)$.

HOWEVER, IN PRACTICAL SCENARIOS, OTHER CONSTRAINTS SUCH AS CAPACITY, DEMAND, OR MARKET SATURATION LIMIT THE FEASIBLE PRODUCTION LEVELS.

REVENUE, COST, AND PROFIT ANALYSIS

WHILE THE AVERAGE COST FUNCTION HELPS UNDERSTAND EFFICIENCY, PROFIT ANALYSIS IS VITAL FOR OVERALL BUSINESS SUCCESS.

PROFIT FUNCTION

PROFIT $(P(x))$ IS THE DIFFERENCE BETWEEN REVENUE AND TOTAL COST:

$$P(x) = R(x) - C(x)$$

SUBSTITUTING THE GIVEN FUNCTIONS:

$$P(x) = (8x - 0.01x^2) - (131 + 7.4x)$$

SIMPLIFY:

$$P(x) = 8x - 0.01x^2 - 131 - 7.4x$$

$$P(x) = (8x - 7.4x) - 0.01x^2 - 131$$

$$P(x) = 0.6x - 0.01x^2 - 131$$

THIS QUADRATIC PROFIT FUNCTION CAN BE ANALYZED TO FIND THE PRODUCTION LEVEL THAT MAXIMIZES PROFIT.

MAXIMIZING PROFIT

SET THE DERIVATIVE OF $(P(x))$ WITH RESPECT TO (x) TO ZERO:

$$P'(x) = 0.6 - 0.02x = 0$$

SOLVE FOR (x) :

$$0.02x = 0.6$$

\]

\[

$$x = \frac{0.6}{0.02} = 30$$

\]

THE PROFIT IS MAXIMIZED AT $(x = 30)$ UNITS.

VERIFYING THE MAXIMUM

CALCULATE THE SECOND DERIVATIVE:

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$$P''(x) = -0.02 < 0$$

\]

SINCE THE SECOND DERIVATIVE IS NEGATIVE, $(x = 30)$ CORRESPONDS TO A MAXIMUM POINT.

PRACTICAL RECOMMENDATIONS

BASED ON THE ANALYSIS:

- TO MINIMIZE AVERAGE COSTS, PRODUCE AT A HIGH VOLUME, WHERE THE FIXED COSTS ARE SPREAD OUT, APPROACHING AN AVERAGE COST OF APPROXIMATELY 7.4 UNITS.
- TO MAXIMIZE PROFIT, PRODUCE AROUND 30 UNITS, WHERE PROFIT REACHES ITS PEAK.

UNDERSTANDING THESE DYNAMICS ALLOWS BUSINESS MANAGERS TO BALANCE BETWEEN COST EFFICIENCY AND PROFITABILITY.

CONCLUSION

IN THIS COMPREHENSIVE ANALYSIS, WE EXAMINED HOW TO FIND AND INTERPRET THE AVERAGE COST FUNCTION GIVEN SPECIFIC COST AND REVENUE FUNCTIONS. THE KEY TAKEAWAYS INCLUDE:

- THE AVERAGE COST FUNCTION $(AC(x) = \frac{131}{x} + 7.4)$ DECREASES AS PRODUCTION INCREASES.
- THE MINIMUM AVERAGE COST APPROACHES 7.4 UNITS AS PRODUCTION BECOMES VERY LARGE, HIGHLIGHTING ECONOMIES OF SCALE.
- THE PROFIT FUNCTION $(P(x) = 0.6x - 0.01x^2 - 131)$ REACHES ITS MAXIMUM AT 30 UNITS, GUIDING OPTIMAL PRODUCTION LEVELS FOR PROFIT MAXIMIZATION.
- A BALANCED APPROACH CONSIDERING BOTH COST EFFICIENCY AND PROFIT OPTIMIZATION CAN HELP SUSTAIN LONG-TERM BUSINESS SUCCESS.

BY UNDERSTANDING THESE FUNCTIONS AND THEIR IMPLICATIONS, BUSINESSES CAN MAKE DATA-DRIVEN DECISIONS TO OPTIMIZE PRODUCTION, REDUCE COSTS, AND ENHANCE PROFITABILITY.

ADDITIONAL TIPS FOR BUSINESS ANALYSIS

- ALWAYS CONSIDER PRACTICAL CONSTRAINTS SUCH AS CAPACITY, MARKET DEMAND, AND COMPETITION.
- USE SENSITIVITY ANALYSIS TO UNDERSTAND HOW CHANGES IN PARAMETERS AFFECT COSTS AND PROFITS.
- REGULARLY UPDATE FUNCTIONS WITH REAL-WORLD DATA TO REFINE DECISION-MAKING MODELS.

FINAL THOUGHTS

THE ABILITY TO ANALYZE AND INTERPRET COST AND REVENUE FUNCTIONS IS A VITAL SKILL FOR ENTREPRENEURS AND BUSINESS ANALYSTS. MASTERY OF CONCEPTS LIKE THE AVERAGE COST FUNCTION AND PROFIT MAXIMIZATION ENABLES STRATEGIC PLANNING AND OPERATIONAL EFFICIENCY, ULTIMATELY LEADING TO IMPROVED FINANCIAL PERFORMANCE AND COMPETITIVE ADVANTAGE IN THE MARKETPLACE.

KEYWORDS FOR SEO OPTIMIZATION:

- AVERAGE COST FUNCTION
- COST AND REVENUE ANALYSIS
- PROFIT MAXIMIZATION
- BUSINESS COST FUNCTIONS
- REVENUE FUNCTIONS
- ECONOMICS OF PRODUCTION
- COST ANALYSIS
- BUSINESS OPTIMIZATION
- FIXED AND VARIABLE COSTS
- ECONOMIES OF SCALE

FREQUENTLY ASKED QUESTIONS

WHAT IS THE FORMULA FOR THE COST FUNCTION $C(x)$ GIVEN IN THE PROBLEM?

THE COST FUNCTION IS $C(x) = 131 + 7.4x$.

WHAT IS THE REVENUE FUNCTION $R(x)$ PROVIDED IN THE PROBLEM?

THE REVENUE FUNCTION IS $R(x) = 8x - 0.01x$.

HOW DO YOU FIND THE AVERAGE COST FUNCTION FROM THE TOTAL COST FUNCTION?

THE AVERAGE COST FUNCTION IS FOUND BY DIVIDING THE TOTAL COST $C(x)$ BY THE NUMBER OF UNITS x , SO IT IS $AC(x) = C(x) / x$.

WHAT IS THE SIMPLIFIED FORM OF THE REVENUE FUNCTION $R(x)$?

SIMPLIFYING $R(x)$: $8x - 0.01x = (8 - 0.01)x = 7.99x$.

HOW DO YOU COMPUTE THE AVERAGE COST FUNCTION FOR THE GIVEN $C(x)$?

DIVIDE $C(x)$ BY x : $AC(x) = (131 + 7.4x) / x = 131/x + 7.4$.

WHAT IS THE FORMULA FOR THE AVERAGE REVENUE PER UNIT BASED ON $R(x)$?

AVERAGE REVENUE PER UNIT IS $R(x) / x$, WHICH SIMPLIFIES TO $7.99x / x = 7.99$.

WHAT IS THE SIGNIFICANCE OF FINDING THE AVERAGE COST FUNCTION IN BUSINESS?

IT HELPS DETERMINE THE COST PER UNIT AT DIFFERENT PRODUCTION LEVELS, AIDING IN PRICING AND PROFIT ANALYSIS.

How would you interpret the average cost function $AC(x) = 131/x + 7.4$ in a real-world context?

It shows that the average cost decreases as production increases due to fixed costs being spread over more units, with a variable cost component of 7.4 per unit.

Additional Resources

Find the average cost function if cost and revenue are given by $C(x) = 131 + 7.4x$ and $R(x) = 8x - 0.01x$

Understanding the relationship between cost, revenue, and profit is fundamental in economics and business analysis. When analyzing a firm's performance, a key step is to derive the average cost function, which provides insight into how costs per unit change as production volume varies. Given the total cost function $C(x) = 131 + 7.4x$ and total revenue function $R(x) = 8x - 0.01x$, our goal is to find the average cost function. This involves dividing the total cost by the number of units produced, x , and examining its behavior across different production levels.

Understanding the Cost and Revenue Functions

Before delving into the calculation of the average cost function, it's essential to comprehend the provided functions and their implications.

Cost Function: $C(x) = 131 + 7.4x$

- **Fixed Cost (FC):** The constant term, 131, represents the fixed costs—expenses that do not vary with production volume, such as rent, salaries, and equipment.
- **Variable Cost per Unit (VC):** The coefficient of x , 7.4, indicates the variable cost per unit produced, including raw materials and direct labor.
- **Overall Cost Behavior:** As production increases, total costs increase linearly, reflecting a cost structure with constant variable costs plus fixed costs.

Revenue Function: $R(x) = 8x - 0.01x$

- **Simplification:** $R(x)$ simplifies to $(8 - 0.01)x$, which equals $7.99x$. This suggests revenue increases linearly with output but slightly less than the price per unit suggests, possibly indicating some form of discount, diminishing price, or other factors.
- **Implication:** The revenue per unit is effectively 7.99, close to the variable cost per unit, which could imply a breakeven point or a detailed analysis of profit margins at different levels of x .

CALCULATING THE AVERAGE COST FUNCTION

THE AVERAGE COST FUNCTION, DENOTED AS $AC(x)$, IS OBTAINED BY DIVIDING THE TOTAL COST FUNCTION $C(x)$ BY THE NUMBER OF UNITS PRODUCED, x :

$$AC(x) = \frac{C(x)}{x}$$

GIVEN $C(x) = 131 + 7.4x$, THE CALCULATION PROCEEDS AS FOLLOWS:

$$AC(x) = \frac{131 + 7.4x}{x}$$

THIS EXPRESSION CAN BE BROKEN DOWN INTO SIMPLER TERMS:

$$AC(x) = \frac{131}{x} + 7.4$$

INTERPRETING THE AVERAGE COST FUNCTION

- **FIXED COST PER UNIT:** THE TERM $\frac{131}{x}$ DIMINISHES AS PRODUCTION INCREASES, INDICATING THAT FIXED COSTS ARE SPREAD OVER MORE UNITS, REDUCING THE FIXED COST CONTRIBUTION PER UNIT.
- **VARIABLE COST:** THE CONSTANT 7.4 REMAINS, REPRESENTING THE VARIABLE COST PER UNIT, WHICH REMAINS UNCHANGED REGARDLESS OF PRODUCTION VOLUME.
- **BEHAVIOR OF $AC(x)$:** AS x BECOMES VERY LARGE, $\frac{131}{x}$ APPROACHES ZERO, AND THE AVERAGE COST APPROACHES THE VARIABLE COST PER UNIT, 7.4. CONVERSELY, AT VERY LOW PRODUCTION LEVELS, THE FIXED COST PER UNIT IS HIGH, LEADING TO ELEVATED AVERAGE COSTS.

GRAPHICAL REPRESENTATION AND ANALYSIS

VISUALIZING THE AVERAGE COST FUNCTION PROVIDES VALUABLE INSIGHTS INTO THE COST STRUCTURE:

- **SHAPE OF THE GRAPH:** IT IS A HYPERBOLIC CURVE APPROACHING THE ASYMPTOTE $y=7.4$ AS x INCREASES.
- **MINIMUM POINT:** SINCE THE FUNCTION IS DECREASING WITH INCREASING x , THE LOWEST AVERAGE COST IS APPROACHED AT HIGH PRODUCTION LEVELS, WHICH IS DESIRABLE FOR EFFICIENCY.
- **IMPLICATION FOR BUSINESS DECISIONS:**
 - PRODUCING MORE UNITS REDUCES AVERAGE COST DUE TO SPREADING FIXED COSTS.
 - AT LOW PRODUCTION LEVELS, HIGH AVERAGE COSTS MAY MAKE PRODUCTION UNPROFITABLE.

PROFIT ANALYSIS USING REVENUE AND COST FUNCTIONS

WHILE THE PRIMARY GOAL IS TO FIND THE AVERAGE COST FUNCTION, UNDERSTANDING THE PROFIT FUNCTION IS ALSO CRUCIAL.

PROFIT FUNCTION: $P(x) = R(x) - C(x)$

SUBSTITUTING THE GIVEN FUNCTIONS:

$$P(x) = (8x - 0.01x^2) - (131 + 7.4x) = 7.99x - 131 - 7.4x$$

SIMPLIFY:

$$P(x) = (7.99x - 7.4x) - 131 = 0.59x - 131$$

- BREAK-EVEN POINT: WHEN PROFIT EQUALS ZERO:

$$0.59x - 131 = 0 \rightarrow x = \frac{131}{0.59} \approx 222$$

- INTERPRETATION: PRODUCING APPROXIMATELY 222 UNITS BALANCES COSTS AND REVENUE, RESULTING IN ZERO PROFIT.

- PROFITABILITY THRESHOLD: FOR PRODUCTION LEVELS EXCEEDING 222 UNITS, THE FIRM BEGINS TO GENERATE PROFIT; BELOW THAT, IT INCURS LOSSES.

FEATURES AND PRACTICAL IMPLICATIONS OF THE AVERAGE COST FUNCTION

UNDERSTANDING THE FEATURES OF THE AVERAGE COST FUNCTION HELPS IN MAKING INFORMED PRODUCTION DECISIONS.

FEATURES:

- DECREASING AT LOW LEVELS: DUE TO FIXED COSTS BEING SPREAD OVER MORE UNITS, AVERAGE COSTS DECREASE AS x INCREASES.

- ASYMPTOTIC BEHAVIOR: THE FUNCTION APPROACHES THE VARIABLE COST PER UNIT (7.4) ASYMPTOTICALLY, INDICATING THE MINIMUM ACHIEVABLE AVERAGE COST.

- COST EFFICIENCY: HIGHER PRODUCTION LEVELS LEAD TO MORE COST-EFFICIENT OPERATIONS, EMPHASIZING ECONOMIES OF SCALE.

PRACTICAL IMPLICATIONS:

- PRODUCTION PLANNING: TO MINIMIZE COSTS, THE FIRM SHOULD AIM FOR HIGHER PRODUCTION VOLUMES, IDEALLY BEYOND THE BREAK-EVEN POINT.

- PRICING STRATEGY: SINCE REVENUE PER UNIT (7.99) IS CLOSE TO THE VARIABLE COST (7.4), PRICING MUST BE CAREFULLY MANAGED TO ENSURE PROFITABILITY AT DIFFERENT LEVELS OF PRODUCTION.

- COST CONTROL: IDENTIFYING FIXED COSTS AND VARIABLE COSTS HELPS IN CONTROLLING EXPENSES AND IMPROVING OVERALL PROFITABILITY.

PROS AND CONS OF THE COST AND REVENUE STRUCTURES

PROS:

- TRANSPARENCY: THE LINEAR NATURE OF THE FUNCTIONS MAKES CALCULATIONS STRAIGHTFORWARD.
- SCALABILITY: THE DECREASING AVERAGE COST WITH INCREASING X PROMOTES ECONOMIES OF SCALE.
- DECISION-MAKING AID: CLEAR IDENTIFICATION OF BREAKEVEN POINTS AND PROFIT THRESHOLDS.

CONS:

- SIMPLIFICATION: REAL-WORLD COST AND REVENUE FUNCTIONS MAY BE NONLINEAR OR MORE COMPLEX.
- FIXED COSTS ASSUMPTION: FIXED COSTS ARE ASSUMED CONSTANT, WHICH MIGHT NOT HOLD IF SCALE EFFECTS INFLUENCE EXPENSES.
- LIMITED REVENUE DYNAMICS: THE REVENUE FUNCTION SUGGESTS DECREASING REVENUE PER UNIT WITH INCREASED SALES, WHICH MAY NOT REFLECT ACTUAL MARKET BEHAVIOR.

CONCLUSION

THE DERIVATION OF THE AVERAGE COST FUNCTION FROM THE PROVIDED TOTAL COST FUNCTION $C(x) = 131 + 7.4x$ RESULTS IN:

$$\begin{aligned} & \backslash[\\ AC(x) &= \frac{131}{x} + 7.4 \\ & \backslash] \end{aligned}$$

THIS FUNCTION ENCAPSULATES KEY INSIGHTS INTO HOW FIXED COSTS ARE AMORTIZED OVER PRODUCTION AND HOW VARIABLE COSTS INFLUENCE THE OVERALL UNIT COST. AS PRODUCTION INCREASES, THE AVERAGE COST DECREASES, APPROACHING THE VARIABLE COST PER UNIT, INDICATING IMPROVED EFFICIENCY AND ECONOMIES OF SCALE. COUPLED WITH THE REVENUE FUNCTION $R(x) = 8x - 0.01x^2$, WHICH SIMPLIFIES TO $7.99x$, THE ANALYSIS REVEALS A BREAKEVEN POINT AT APPROXIMATELY 222 UNITS. BEYOND THIS, THE FIRM CAN GENERATE PROFITS, MAKING STRATEGIC DECISIONS AROUND PRODUCTION LEVELS ESSENTIAL FOR PROFITABILITY.

THIS COMPREHENSIVE ANALYSIS UNDERSCORES THE IMPORTANCE OF UNDERSTANDING COST AND REVENUE FUNCTIONS FOR EFFECTIVE BUSINESS PLANNING. IT HIGHLIGHTS THE CRITICAL BALANCE BETWEEN FIXED AND VARIABLE COSTS, PRODUCTION SCALE, AND PRICING STRATEGIES TO OPTIMIZE PROFITABILITY AND OPERATIONAL EFFICIENCY. BY MASTERING SUCH FUNDAMENTAL CONCEPTS, BUSINESSES CAN BETTER NAVIGATE MARKET CHALLENGES AND MAKE DATA-DRIVEN DECISIONS TO ENHANCE THEIR FINANCIAL HEALTH.

Find The Average Cost Function If Cost And Revenue Are Given By $C(x) = 131 - 7(4x)$ And $R(x) = 8x - 0.01x^2$

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