

JULIE WANTS TO RANDOMLY CHOOSE TWO OUT OF THREE FRIENDS, MARGARITE, ANITA, AND SASHA, TO GO WITH HER

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MAKING DECISIONS ABOUT SOCIAL PLANS CAN SOMETIMES BE SIMPLE, YET OCCASIONALLY REQUIRE A BIT OF LUCK AND RANDOMNESS—ESPECIALLY WHEN CHOOSING BETWEEN FRIENDS TO JOIN YOU FOR AN OUTING. IN THIS ARTICLE, WE EXPLORE THE SCENARIO WHERE JULIE WANTS TO RANDOMLY SELECT TWO FRIENDS OUT OF HER THREE CLOSE FRIENDS: MARGARITE, ANITA, AND SASHA. WE WILL DELVE INTO THE REASONING BEHIND SUCH A CHOICE, THE METHODS TO MAKE IT FAIR AND RANDOM, AND THE BROADER IMPLICATIONS OF CHOOSING FRIENDS RANDOMLY. WHETHER YOU'RE FACING A SIMILAR DILEMMA OR JUST INTERESTED IN THE MATHEMATICS OF PROBABILITY, THIS GUIDE COVERS ALL THE ESSENTIALS.

UNDERSTANDING THE SCENARIO: JULIE'S DILEMMA

WHO ARE THE FRIENDS INVOLVED?

JULIE HAS THREE CLOSE FRIENDS:

- MARGARITE
- ANITA
- SASHA

THEY ARE ALL EQUALLY IMPORTANT TO HER, AND SHE WANTS TO INCLUDE TWO OF THEM IN HER OUTING. THE DECISION IS NOT ABOUT PREFERENCE BUT ABOUT FAIRNESS AND SPONTANEITY.

WHY RANDOM SELECTION?

JULIE MIGHT PREFER TO KEEP HER DECISION UNBIASED, ESPECIALLY IF SHE VALUES ALL HER FRIENDS EQUALLY. RANDOM SELECTION ENSURES:

1. FAIRNESS: NO FRIEND FEELS LEFT OUT UNFAIRLY.
2. SPONTANEITY: THE CHOICE IS MADE BY CHANCE, ADDING AN ELEMENT OF SURPRISE.
3. EQUALITY: EACH PAIR HAS AN EQUAL CHANCE OF BEING SELECTED.

POSSIBLE COMBINATIONS OF FRIENDS

LISTING ALL POSSIBLE PAIRS

SINCE JULIE WANTS TO CHOOSE TWO FRIENDS OUT OF THREE, THE TOTAL NUMBER OF COMBINATIONS CAN BE CALCULATED MATHEMATICALLY. USING COMBINATORICS, THE NUMBER OF WAYS TO SELECT 2 FRIENDS FROM 3 IS:

$$\begin{aligned} & \backslash[\\ & \backslash\text{TEXT{NUMBER OF COMBINATIONS}} = \backslash\text{BINOM}{3}{2} = \backslash\text{FRAC}{3!}{2!(3-2)!} = 3 \\ & \backslash] \end{aligned}$$

THE POSSIBLE PAIRS ARE:

1. MARGARITE AND ANITA
2. MARGARITE AND SASHA
3. ANITA AND SASHA

EACH OF THESE PAIRS HAS AN EQUAL CHANCE OF BEING CHOSEN IF THE SELECTION PROCESS IS RANDOM.

IMPLICATIONS OF EQUAL PROBABILITY

SINCE EACH PAIR IS EQUALLY LIKELY, JULIE CAN USE A FAIR METHOD TO RANDOMLY SELECT ONE OF THESE PAIRS, WHICH ENSURES NO BIAS.

METHODS FOR RANDOMLY SELECTING A PAIR

USING A RANDOM NUMBER GENERATOR

ONE OF THE SIMPLEST AND MOST ACCURATE WAYS TO MAKE A RANDOM CHOICE IS VIA A DIGITAL RANDOM NUMBER GENERATOR.

- ASSIGN EACH PAIR A NUMBER: 1 FOR MARGARITE & ANITA, 2 FOR MARGARITE & SASHA, 3 FOR ANITA & SASHA.
- USE AN ONLINE RANDOM NUMBER GENERATOR OR A CALCULATOR WITH A RANDOM FUNCTION.
- GENERATE A NUMBER BETWEEN 1 AND 3.
- THE CHOSEN NUMBER CORRESPONDS TO THE PAIR TO GO WITH JULIE.

USING PHYSICAL METHODS

IF JULIE PREFERS A MORE TANGIBLE METHOD, SHE CAN USE SIMPLE PHYSICAL TOOLS:

1. **DRAW STRAWS:** PREPARE THREE STRAWS OR SLIPS OF PAPER, TWO LABELED AS ONE PAIR AND ONE AS ANOTHER, THEN SELECT RANDOMLY.

2. **USE A SPINNER:** CREATE A SPINNER DIVIDED INTO THREE EQUAL PARTS, EACH REPRESENTING A PAIR, AND SPIN TO DECIDE.
3. **USE COINS OR DICE:** ASSIGN PAIRS TO COIN FLIPS OR DICE OUTCOMES, ENSURING EACH HAS EQUAL PROBABILITY.

ENSURING FAIRNESS AND TRANSPARENCY

WHICHEVER METHOD JULIE CHOOSES, TRANSPARENCY IS KEY. SHE SHOULD:

- EXPLAIN THE PROCESS TO HER FRIENDS TO AVOID MISUNDERSTANDINGS.
- ENSURE THE METHOD IS TRULY RANDOM AND UNBIASED.
- ALLOW HER FRIENDS TO OBSERVE OR PARTICIPATE IN THE SELECTION PROCESS IF THEY WISH.

BROADER CONSIDERATIONS IN RANDOM FRIEND SELECTION

THE IMPORTANCE OF FAIRNESS IN FRIENDSHIPS

CHOOSING FRIENDS RANDOMLY CAN PREVENT FEELINGS OF FAVORITISM OR EXCLUSION. IT EMPHASIZES THAT ALL FRIENDS ARE VALUED EQUALLY, ESPECIALLY WHEN THE DECISION IS NOT ABOUT PREFERENCE BUT ABOUT FAIRNESS.

THE IMPACT ON FRIEND DYNAMICS

WHILE RANDOM SELECTION CAN BE A FUN WAY TO MAKE A DECISION, IT'S IMPORTANT TO CONSIDER:

1. POTENTIAL FEELINGS OF DISAPPOINTMENT FROM FRIENDS WHO ARE NOT SELECTED.
2. THE IMPORTANCE OF COMMUNICATING THAT THE CHOICE IS RANDOM AND NOT BASED ON PERSONAL BIAS.
3. ENSURING THAT ALL FRIENDS UNDERSTAND THE PROCESS TO MAINTAIN TRUST.

ALTERNATIVE APPROACHES

IF JULIE PREFERS A DIFFERENT METHOD, SHE MIGHT CONSIDER:

- ASKING FRIENDS TO VOLUNTEER AND THEN SELECTING RANDOMLY AMONG VOLUNTEERS.
- ROTATING THE DECISION-MAKING RESPONSIBILITY OVER TIME.
- USING PREFERENCES OR PREVIOUS OUTINGS TO GUIDE FUTURE CHOICES.

EXTENDING THE CONCEPT: CHOOSING MORE OR FEWER FRIENDS

CHOOSING MORE THAN TWO FRIENDS

IF JULIE WANTS TO PICK MORE FRIENDS, SUCH AS ALL THREE, THE PROCESS IS STRAIGHTFORWARD:

- THERE IS ONLY ONE COMBINATION: MARGARITE, ANITA, AND SASHA.
- SHE CAN DECIDE TO INCLUDE ALL FRIENDS OR SELECT A SUBSET BASED ON OCCASION.

SELECTING FEWER FRIENDS

IF SHE'S CHOOSING JUST ONE FRIEND, THEN THE OPTIONS ARE:

1. MARGARITE
2. ANITA
3. SASHA

THE SELECTION PROCESS REMAINS SIMILAR, WITH EQUAL PROBABILITY ASSIGNED TO EACH.

CONCLUSION: MAKING FAIR AND FUN DECISIONS

CHOOSING FRIENDS RANDOMLY CAN BE A FUN, FAIR, AND SPONTANEOUS WAY TO PLAN OUTINGS AND SOCIAL ACTIVITIES. BY UNDERSTANDING THE POSSIBLE COMBINATIONS, USING APPROPRIATE RANDOMIZATION METHODS, AND COMMUNICATING TRANSPARENTLY, JULIE CAN ENSURE THAT HER DECISION-MAKING PROCESS REMAINS FAIR AND ENJOYABLE FOR EVERYONE INVOLVED. SUCH APPROACHES ALSO TEACH VALUABLE LESSONS ABOUT FAIRNESS, CHANCE, AND RESPECTING OTHERS' FEELINGS — ESSENTIAL ELEMENTS OF HEALTHY FRIENDSHIPS. WHETHER FOR SMALL GATHERINGS OR LARGER SOCIAL DECISIONS, APPLYING THESE PRINCIPLES MAKES PLANNING MORE INCLUSIVE AND LIGHTHEARTED.

REMEMBER, THE KEY IS TO KEEP THE PROCESS TRANSPARENT AND CONSIDERATE, SO ALL FRIENDS FEEL VALUED REGARDLESS OF THE OUTCOME. AFTER ALL, FRIENDSHIP IS ABOUT SHARING EXPERIENCES AND CREATING MEMORIES, REGARDLESS OF WHO ENDS UP JOINING THE ADVENTURE.

FREQUENTLY ASKED QUESTIONS

WHAT ARE THE POSSIBLE PAIRS JULIE CAN CHOOSE FROM HER THREE FRIENDS

MARGARITE, ANITA, AND SASHA?

THE POSSIBLE PAIRS ARE MARGARITE AND ANITA, MARGARITE AND SASHA, AND ANITA AND SASHA.

HOW MANY DIFFERENT WAYS CAN JULIE SELECT TWO FRIENDS OUT OF THE THREE?

THERE ARE THREE WAYS TO SELECT TWO FRIENDS OUT OF THREE, WHICH CAN BE CALCULATED USING COMBINATIONS: $3 \text{ CHOOSE } 2 = 3$.

IF JULIE RANDOMLY PICKS TWO FRIENDS, WHAT IS THE PROBABILITY SHE CHOOSES MARGARITE AND SASHA?

THE PROBABILITY IS 1 OUT OF 3, SINCE THERE ARE THREE EQUALLY LIKELY PAIRS, SO THE PROBABILITY IS $1/3$.

ARE THE CHOICES MADE BY JULIE INDEPENDENT IF SHE PICKS TWO FRIENDS RANDOMLY?

YES, EACH PAIR IS EQUALLY LIKELY, SO THE CHOICES ARE INDEPENDENT IN TERMS OF PROBABILITY DISTRIBUTION.

WHAT IS THE TOTAL NUMBER OF COMBINATIONS IF JULIE WANTS TO CHOOSE ANY TWO FRIENDS FROM A LARGER GROUP OF FRIENDS?

THE TOTAL NUMBER OF COMBINATIONS IS GIVEN BY THE COMBINATION FORMULA $n \text{ CHOOSE } 2$. FOR THREE FRIENDS, IT'S 3; FOR LARGER GROUPS, USE THE FORMULA $n(n-1)/2$.

CAN JULIE CHOOSE THE SAME FRIEND TWICE WHEN SELECTING TWO FRIENDS?

NO, SINCE SHE IS CHOOSING TWO DIFFERENT FRIENDS, EACH CAN ONLY BE CHOSEN ONCE.

IF JULIE WANTS TO ENSURE SHE DOESN'T PICK THE SAME PAIR TWICE, WHAT METHOD CAN SHE USE?

SHE CAN KEEP TRACK OF THE PAIRS SHE HAS ALREADY SELECTED TO AVOID REPEATS OR USE RANDOM SELECTION WITHOUT REPLACEMENT.

IN TERMS OF PROBABILITY, WHAT IS THE CHANCE THAT JULIE PICKS THE PAIR INCLUDING ANITA?

SINCE THERE ARE THREE PAIRS, AND ONLY ONE INCLUDES ANITA (MARGARITE AND ANITA), THE CHANCE IS $1/3$.

HOW DOES THE CONCEPT OF COMBINATIONS HELP IN SOLVING THIS PROBLEM?

IT HELPS BY DETERMINING THE TOTAL NUMBER OF UNIQUE PAIRS JULIE CAN SELECT WITHOUT CONSIDERING THE ORDER, SIMPLIFYING THE CALCULATION OF PROBABILITIES AND POSSIBLE CHOICES.

IF JULIE REPEATS THE SELECTION PROCESS MULTIPLE TIMES, WHAT ARE THE CHANCES OF SELECTING THE SAME PAIR TWICE?

ASSUMING INDEPENDENT RANDOM CHOICES EACH TIME, THE PROBABILITY OF SELECTING THE SAME PAIR TWICE DEPENDS ON THE TOTAL NUMBER OF REPETITIONS AND REMAINS $1/3$ FOR EACH SPECIFIC PAIR PER SELECTION.

ADDITIONAL RESOURCES

JULIE WANTS TO RANDOMLY CHOOSE TWO OUT OF THREE FRIENDS, MARGARITE, ANITA, AND SASHA, TO GO WITH HER

IN SOCIAL DYNAMICS, MAKING DECISIONS AMONG FRIENDS CAN SOMETIMES BE AS COMPLEX AS SOLVING A MATHEMATICAL PUZZLE. RECENTLY, JULIE FOUND HERSELF IN A FAMILIAR YET INTRIGUING SITUATION: SHE WANTED TO PICK TWO FRIENDS OUT OF HER THREE CLOSE COMPANIONS—MARGARITE, ANITA, AND SASHA—TO ACCOMPANY HER ON AN UPCOMING OUTING. WHILE AT FIRST GLANCE THIS MIGHT SEEM LIKE A STRAIGHTFORWARD CHOICE, THE PROCESS OF SELECTING TWO FRIENDS RANDOMLY INVOLVES INTERESTING CONSIDERATIONS ROOTED IN PROBABILITY, COMBINATORICS, AND DECISION-MAKING PRINCIPLES. THIS ARTICLE EXPLORES THE VARIOUS FACETS OF THIS SCENARIO, PROVIDING A COMPREHENSIVE AND READER-FRIENDLY ANALYSIS OF HOW JULIE CAN APPROACH HER SELECTION PROCESS.

UNDERSTANDING THE SCENARIO: THE BASIC SETUP

JULIE'S DECISION INVOLVES SELECTING TWO FRIENDS FROM A GROUP OF THREE—MARGARITE, ANITA, AND SASHA. EACH FRIEND IS EQUALLY LIKELY TO BE CHOSEN, AND JULIE WANTS HER SELECTION TO BE RANDOM, ENSURING NO BIAS OR FAVORITISM INFLUENCES HER CHOICE.

KEY POINTS OF THE SCENARIO:

- PARTICIPANTS: THREE FRIENDS — MARGARITE, ANITA, SASHA
- SELECTION: TWO FRIENDS TO ACCOMPANY JULIE
- OBJECTIVE: RANDOM AND FAIR SELECTION PROCESS
- CONSTRAINTS: EACH FRIEND CAN ONLY BE SELECTED ONCE IN EACH CHOICE

THIS SETUP IS A CLASSIC EXAMPLE OF A SIMPLE COMBINATORIAL PROBLEM, WHICH INVOLVES UNDERSTANDING HOW MANY POSSIBLE CHOICES EXIST AND HOW TO SELECT AMONG THEM FAIRLY.

BREAKING DOWN THE POSSIBLE COMBINATIONS

THE CORE OF THIS PROBLEM REVOLVES AROUND UNDERSTANDING HOW MANY DIFFERENT PAIRS OF FRIENDS CAN BE FORMED FROM THE GROUP OF THREE.

LIST OF POSSIBLE PAIRS

GIVEN THREE FRIENDS, THE PAIRS JULIE COULD POTENTIALLY CHOOSE ARE:

1. MARGARITE AND ANITA
2. MARGARITE AND SASHA
3. ANITA AND SASHA

THESE OPTIONS ARE MUTUALLY EXCLUSIVE AND COLLECTIVELY EXHAUSTIVE, MEANING THEY COVER ALL POSSIBLE PAIRS JULIE MIGHT SELECT.

COUNTING THE COMBINATIONS

MATHEMATICALLY, THE NUMBER OF WAYS TO CHOOSE 2 FRIENDS OUT OF 3 IS EXPRESSED USING COMBINATIONS, DENOTED AS “N CHOOSE K” (WRITTEN AS $C(n, k)$). THE FORMULA FOR COMBINATIONS IS:

$$C(n, k) = \frac{n!}{k!(n - k)!}$$

WHERE:

- $\binom{n}{k}$ IS THE TOTAL NUMBER OF ITEMS (FRIENDS)
- $\binom{n}{k}$ IS THE NUMBER OF ITEMS TO CHOOSE
- $!$ DENOTES FACTORIAL, THE PRODUCT OF ALL POSITIVE INTEGERS UP TO THAT NUMBER

APPLYING THIS FORMULA:

$$\binom{3}{2} = \frac{3!}{2!(3-2)!} = \frac{3 \times 2 \times 1}{(2 \times 1)(1)} = \frac{6}{2} = 3$$

THUS, THERE ARE EXACTLY THREE POSSIBLE PAIRS OF FRIENDS THAT JULIE COULD SELECT.

PROBABILITY AND FAIRNESS IN RANDOM SELECTION

HAVING IDENTIFIED THE THREE POTENTIAL COMBINATIONS, THE NEXT STEP IS UNDERSTANDING HOW TO SELECT ONE PAIR FAIRLY AND RANDOMLY.

UNIFORM PROBABILITY DISTRIBUTION

IF JULIE USES A PERFECTLY RANDOM METHOD—SUCH AS DRAWING NAMES FROM A HAT, SPINNING A WHEEL WITH THREE OPTIONS, OR USING A COMPUTER-GENERATED RANDOM NUMBER—THE PROBABILITY OF EACH PAIR BEING SELECTED IS EQUAL:

- PROBABILITY OF SELECTING MARGARITE AND ANITA: $\frac{1}{3}$
- PROBABILITY OF SELECTING MARGARITE AND SASHA: $\frac{1}{3}$
- PROBABILITY OF SELECTING ANITA AND SASHA: $\frac{1}{3}$

THIS ENSURES AN UNBIASED PROCESS WHERE NO PAIR HAS AN ADVANTAGE OVER THE OTHERS.

ENSURING FAIRNESS: PRACTICAL APPROACHES

JULIE CAN IMPLEMENT SEVERAL METHODS TO GUARANTEE FAIRNESS:

- DRAWING NAMES: WRITE EACH PAIR ON A SLIP OF PAPER, SHUFFLE, AND PICK ONE AT RANDOM.
- DIGITAL RANDOMIZATION: USE AN APP OR WEBSITE THAT GENERATES A RANDOM SELECTION FROM THE LIST OF PAIRS.
- ROTATIONAL SYSTEM: KEEP TRACK OF PREVIOUS CHOICES TO PREVENT REPEATS, IF THE GOAL IS VARIETY OVER TIME.

IMPLICATIONS OF RANDOM SELECTION

FROM A SOCIAL PERSPECTIVE, RANDOM SELECTION REMOVES SUBJECTIVE BIAS AND HELPS MAINTAIN FAIRNESS AMONG FRIENDS. IT ENSURES EACH GROUP COMBINATION HAS AN EQUAL CHANCE, PROMOTING TRANSPARENCY AND MINIMIZING FEELINGS OF FAVORITISM OR EXCLUSION.

BEYOND BASIC COMBINATORICS: CONSIDERING ADDITIONAL FACTORS

WHILE THE MATHEMATICAL FRAMEWORK PROVIDES CLARITY, REAL-WORLD SCENARIOS OFTEN INVOLVE ADDITIONAL LAYERS OF COMPLEXITY.

FRIEND PREFERENCES AND CONSTRAINTS

- AVAILABILITY: PERHAPS MARGARITE IS UNAVAILABLE THAT DAY.

- PREFERENCES: ANITA MIGHT PREFER GOING WITH JULIE, WHILE SASHA HAS OTHER COMMITMENTS.
- GROUP DYNAMICS: SOMETIMES, FRIENDS MAY PREFER TO BE IN DIFFERENT PAIRS TO AVOID CONFLICTS OR FOSTER DIVERSE INTERACTIONS.

IN SUCH CASES, PURE PROBABILITY MAY NEED TO BE BALANCED WITH SOCIAL CONSIDERATIONS, LEADING TO MORE NUANCED DECISION-MAKING PROCESSES.

MULTIPLE ROUNDS AND VARIATIONS

IF JULIE PLANS TO GO OUT MULTIPLE TIMES WITH DIFFERENT PAIRS, SHE MIGHT WANT TO ROTATE THROUGH THE OPTIONS TO ENSURE FAIRNESS OVER TIME. THIS COULD INVOLVE:

- TRACKING PAST CHOICES TO AVOID REPEATS
- IMPLEMENTING WEIGHTED PROBABILITIES IF SOME FRIENDS ARE MORE AVAILABLE OR INTERESTED
- USING A SYSTEMATIC APPROACH TO ENSURE ALL PAIRS GET A TURN

ETHICAL AND SOCIAL IMPLICATIONS

DECIDING RANDOMLY CAN SOMETIMES OVERLOOK THE NUANCES OF FRIENDSHIPS AND INDIVIDUAL CIRCUMSTANCES. TRANSPARENCY ABOUT THE PROCESS AND OPENNESS TO FEEDBACK ARE KEY TO MAINTAINING HEALTHY RELATIONSHIPS.

MATHEMATICAL TOOLS AND CONCEPTS IN ACTION

JULIE'S SCENARIO PROVIDES AN EXCELLENT ILLUSTRATION OF HOW FUNDAMENTAL MATHEMATICAL CONCEPTS UNDERPIN EVERYDAY SOCIAL DECISIONS.

COMBINATORICS IN PRACTICE

- THE CALCULATION OF COMBINATIONS HELPS QUANTIFY THE POSSIBLE OPTIONS.
- RANDOMIZED ALGORITHMS ENSURE FAIRNESS AND OBJECTIVITY.
- AWARENESS OF PROBABILITIES GUIDES EXPECTATIONS AND PLANNING.

PROBABILISTIC THOUGHT PROCESS

BY UNDERSTANDING THAT EACH PAIR HAS AN EQUAL $1/3$ CHANCE OF BEING SELECTED, JULIE CAN COMMUNICATE HER DECISION-MAKING PROCESS CLEARLY, FOSTERING TRUST AMONG HER FRIENDS.

DECISION-MAKING MODELS

IN COMPLEX SOCIAL CHOICES, COMBINING RANDOMNESS WITH SOCIAL CONSIDERATIONS LEADS TO BALANCED DECISIONS. FOR EXAMPLE:

- USING PROBABILISTIC METHODS FOR INITIAL SELECTION.
- ADJUSTING BASED ON INDIVIDUAL PREFERENCES AND CONSTRAINTS.
- ENSURING THAT OVER MULTIPLE OUTINGS, ALL FRIENDS GET EQUITABLE OPPORTUNITIES.

CONCLUSION: MAKING FAIR AND INFORMED CHOICES

JULIE'S SIMPLE DESIRE TO PICK TWO FRIENDS RANDOMLY FROM HER TRIO OF CLOSE COMPANIONS EXEMPLIFIES HOW BASIC COMBINATORIAL PRINCIPLES AND PROBABILITY CAN INFORM EVERYDAY DECISIONS. BY UNDERSTANDING THE POSSIBLE

COMBINATIONS, CALCULATING THEIR PROBABILITIES, AND CONSIDERING SOCIAL FACTORS, SHE CAN MAKE HER CHOICE FAIRLY AND TRANSPARENTLY. WHETHER SHE OPTS FOR A QUICK RANDOM DRAW OR A MORE NUANCED APPROACH, THE KEY LIES IN BALANCING MATHEMATICAL FAIRNESS WITH SOCIAL AWARENESS. THIS SCENARIO UNDERSCORES THE IMPORTANCE OF APPLYING LOGICAL AND MATHEMATICAL REASONING IN SOCIAL CONTEXTS, ENSURING THAT DECISIONS FOSTER FRIENDSHIP, FAIRNESS, AND FUN.

IN THE END, WHETHER JULIE CHOOSES MARGARITE AND ANITA, MARGARITE AND SASHA, OR ANITA AND SASHA, THE PROCESS ITSELF HIGHLIGHTS THE VALUE OF FAIRNESS, RANDOMNESS, AND THOUGHTFUL CONSIDERATION IN SOCIAL INTERACTIONS. AFTER ALL, SOMETIMES THE BEST DECISIONS ARE THOSE MADE WITH A BLEND OF LOGIC AND HEART.

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