

CALC 2 CHEAT SHEET

CALC 2 CHEAT SHEET: YOUR COMPREHENSIVE GUIDE TO MASTERING CALCULUS II

CALCULUS II IS A PIVOTAL COURSE IN MANY MATHEMATICS, ENGINEERING, AND SCIENCE CURRICULA. IT BUILDS UPON THE FOUNDATIONAL CONCEPTS OF CALCULUS I, INTRODUCING ADVANCED TECHNIQUES OF INTEGRATION, SERIES, SEQUENCES, AND DIFFERENTIAL EQUATIONS. FOR STUDENTS AIMING TO EXCEL IN THIS CHALLENGING COURSE, HAVING A WELL-ORGANIZED CHEAT SHEET CAN BE AN INVALUABLE RESOURCE. THIS GUIDE OFFERS A DETAILED OVERVIEW OF ESSENTIAL FORMULAS, CONCEPTS, AND STRATEGIES TO HELP YOU NAVIGATE CALCULUS II WITH CONFIDENCE.

UNDERSTANDING THE CORE CONCEPTS OF CALCULUS II

BEFORE DIVING INTO FORMULAS AND TECHNIQUES, IT'S CRUCIAL TO UNDERSTAND THE OVERARCHING THEMES OF CALCULUS II. THIS COURSE PRIMARILY FOCUSES ON:

- TECHNIQUES OF INTEGRATION
- INFINITE SERIES AND SEQUENCES
- PARAMETRIC EQUATIONS AND POLAR COORDINATES
- APPLICATIONS OF INTEGRALS
- DIFFERENTIAL EQUATIONS

HAVING A SOLID GRASP OF THESE AREAS WILL MAKE SOLVING PROBLEMS MORE MANAGEABLE AND EFFICIENT.

TECHNIQUES OF INTEGRATION

ONE OF THE MOST SIGNIFICANT PORTIONS OF CALCULUS II INVOLVES MASTERING VARIOUS METHODS OF INTEGRATION. HERE'S A BREAKDOWN OF THE MOST IMPORTANT TECHNIQUES:

BASIC INTEGRATION RULES

- $\int x^n dx = \frac{x^{n+1}}{n+1} + C$, WHERE $n \neq -1$
- $\int e^x dx = e^x + C$
- $\int a^x dx = \frac{a^x}{\ln a} + C$, $a > 0$, $a \neq 1$
- $\int \frac{1}{x} dx = \ln|x| + C$
- $\int \sin x dx = -\cos x + C$
- $\int \cos x dx = \sin x + C$

INTEGRATION BY SUBSTITUTION

- CHOOSE A SUBSTITUTION $u = g(x)$
- REPLACE dx WITH $du / g'(x)$
- TRANSFORM THE INTEGRAL INTO A SIMPLER FORM

FORMULA:

$$\int f(g(x)) g'(x) dx = \int f(u) du$$

INTEGRATION BY PARTS

- BASED ON THE PRODUCT RULE: $\int u dv = uv - \int v du$

PROCEDURE:

1. IDENTIFY PARTS OF THE INTEGRAND AS u AND dv
2. DIFFERENTIATE u TO GET du
3. INTEGRATE dv TO GET v
4. APPLY THE FORMULA

FORMULA:

$$\int u dv = uv - \int v du$$

TRIGONOMETRIC INTEGRALS

- USE IDENTITIES TO SIMPLIFY INTEGRALS INVOLVING TRIGONOMETRIC FUNCTIONS
- COMMON IDENTITIES:
 - $\sin^2 x + \cos^2 x = 1$
 - $\tan^2 x + 1 = \sec^2 x$
 - $1 + \cot^2 x = \csc^2 x$

PARTIAL FRACTION DECOMPOSITION

- USED FOR INTEGRATING RATIONAL FUNCTIONS
- EXPRESS THE RATIONAL FUNCTION AS A SUM OF SIMPLER FRACTIONS
- BREAK DOWN COMPLEX DENOMINATORS INTO LINEAR OR QUADRATIC FACTORS

STEPS:

1. FACTOR DENOMINATOR
2. SET UP PARTIAL FRACTIONS
3. SOLVE FOR COEFFICIENTS
4. INTEGRATE EACH TERM SEPARATELY

INTEGRATION OF RATIONAL FUNCTIONS AND RATIONALIZING TECHNIQUES

- WHEN DEALING WITH RATIONAL FUNCTIONS, PARTIAL FRACTIONS ARE OFTEN NECESSARY
- FOR IRRATIONAL DENOMINATORS, RATIONALIZE OR USE SUBSTITUTION

INTEGRATION OF TRIGONOMETRIC SUBSTITUTIONS

- USEFUL WHEN INTEGRAND CONTAINS $\sqrt{a^2 - x^2}$, $\sqrt{a^2 + x^2}$, OR $\sqrt{x^2 - a^2}$
- COMMON SUBSTITUTIONS:
 - $x = a \sin \theta$
 - $x = a \tan \theta$
 - $x = a \sec \theta$

INFINITE SERIES AND SEQUENCES

CALCULUS II INTRODUCES THE CONCEPT OF INFINITE SERIES, WHICH ARE SUMS OF INFINITELY MANY TERMS. UNDERSTANDING CONVERGENCE AND DIVERGENCE IS KEY.

SEQUENCES

- AN ORDERED LIST OF NUMBERS: $\{a_n\}$
- LIMIT OF A SEQUENCE: $\lim_{n \rightarrow \infty} a_n$

SERIES

- SUM OF SEQUENCE TERMS: $\sum_{n=1}^{\infty} a_n$

TESTS FOR CONVERGENCE

1. **NTH-TERM TEST:** IF $\lim_{n \rightarrow \infty} a_n \neq 0$, THE SERIES DIVERGES.
2. **GEOMETRIC SERIES:** $\sum_{n=0}^{\infty} ar^n$ CONVERGES IF $|r| < 1$, $SUM = a / (1 - r)$.
3. **P-SERIES:** $\sum_{n=1}^{\infty} 1/n^p$ CONVERGES IF $p > 1$.
4. **COMPARISON TEST:** COMPARE WITH A KNOWN CONVERGENT OR DIVERGENT SERIES.
5. **RATIO TEST:** $\lim_{n \rightarrow \infty} |a_{n+1} / a_n| = L$
 - CONVERGES IF $L < 1$
 - DIVERGES IF $L > 1$
6. **ROOT TEST:** $\lim_{n \rightarrow \infty} |a_n|^{1/n} = L$
 - CONVERGES IF $L < 1$

POWER SERIES

- SERIES OF THE FORM: $\sum_{n=0}^{\infty} c_n (x - a)^n$
- HAS A RADIUS OF CONVERGENCE R

- CAN REPRESENT FUNCTIONS WITHIN THE INTERVAL OF CONVERGENCE

TAYLOR AND MACLAURIN SERIES

- POLYNOMIAL APPROXIMATIONS OF FUNCTIONS
- TAYLOR SERIES CENTERED AT A:

$$f(x) = \sum_{n=0}^{\infty} \frac{f^{(n)}(a)}{n!} (x - a)^n$$

- MACLAURIN SERIES: TAYLOR SERIES CENTERED AT 0

PARAMETRIC EQUATIONS AND POLAR COORDINATES

CALCULUS II EXTENDS THE STUDY OF CURVES TO PARAMETRIC AND POLAR FORMS.

PARAMETRIC EQUATIONS

- REPRESENT CURVES WITH:

$$x = x(t), y = y(t)$$

- DERIVATIVES:

$$dy/dx = (dy/dt) / (dx/dt)$$

- ARC LENGTH:

$$L = \int_a^b \sqrt{(dx/dt)^2 + (dy/dt)^2} dt$$

POLAR COORDINATES

- REPRESENT POINTS AS (r, θ)
- CONVERSION BETWEEN CARTESIAN AND POLAR:

$$x = r \cos \theta, y = r \sin \theta$$

- DERIVATIVE FORMULAS:

$$dy/dx = (dy/d\theta) / (dx/d\theta)$$

- ARC LENGTH:

$$L = \int_a^b \sqrt{r^2 + (dr/d\theta)^2} d\theta$$

APPLICATIONS OF INTEGRALS

CALCULUS II EMPHASIZES REAL-WORLD APPLICATIONS:

AREA BETWEEN CURVES

- FOR FUNCTIONS $y = f(x)$ AND $y = g(x)$:

$$A = \int_a^b |f(x) - g(x)| dx$$

VOLUME OF SOLIDS OF REVOLUTION

- DISK METHOD:

$$V = \pi \int_a^b [f(x)]^2 dx$$

- WASHERS (HOLES):

$$V = \pi \int_a^b ([\text{OUTER RADIUS}]^2 - [\text{INNER RADIUS}]^2) dx$$

- SHELL METHOD:

$$V = 2\pi \int_a^b x f(x) dx$$

ARC LENGTH AND SURFACE AREA

- ARC LENGTH OF A CURVE $y = f(x)$:

$$L = \int_a^b \sqrt{1 + (dy/dx)^2} dx$$

- SURFACE AREA OF REVOLUTION:

$$A = 2\pi \int_a^b f(x) \sqrt{1 + (dy/dx)^2} dx$$

DIFFERENTIAL EQUATIONS IN CALCULUS II

SOLVING BASIC DIFFERENTIAL EQUATIONS IS A CRITICAL SKILL:

SEPARABLE DIFFERENTIAL EQUATIONS

- FORM:

$$dy/dx = g(x) h(y)$$

- SOLUTION:

$$\int (1/h(y)) dy = \int g(x) dx + C$$

LINEAR DIFFERENTIAL EQUATIONS

- STANDARD FORM:

$$dy/dx + P(x)y = Q(x)$$

- SOLUTION INVOLVES AN INTEGRATING FACTOR:

$$M(x) = e^{\int P(x) dx}$$

- GENERAL SOLUTION:

$$y(x) = (1/M(x)) \left[\int M(x) Q(x) dx + C \right]$$

FINAL TIPS FOR SUCCESS IN CALCULUS II

- MEMORIZE KEY FORMULAS AND PRACTICE THEIR APPLICATIONS REGULARLY.
- UNDERSTAND THE DERIVATION OF TECHNIQUES TO REINFORCE LEARNING.
- USE THE CHEAT SHEET AS A QUICK REFERENCE DURING PROBLEM-SOLVING.
- PRACTICE A VARIETY OF PROBLEMS TO RECOGNIZE WHICH TECHNIQUES TO APPLY.
- DON'T JUST MEMORIZE—AIM TO UNDERSTAND CONCEPTS DEEPLY.

THIS COMPREHENSIVE CHEAT SHEET CONDENSES THE ESSENTIAL FORMULAS AND CONCEPTS NEEDED FOR CALCULUS II. WHETHER YOU'RE REVIEWING BEFORE EXAMS, TACKLING HOMEWORK PROBLEMS, OR PREPARING FOR FUTURE COURSES, KEEPING THIS GUIDE HANDY CAN BOOST YOUR CONFIDENCE AND PERFORMANCE. REMEMBER, MASTERY COMES WITH PRACTICE AND UNDERSTANDING, SO COMBINE THIS CHEAT SHEET WITH CONSISTENT PROBLEM-SOLVING TO EXCEL IN CALCULUS II.

FREQUENTLY ASKED QUESTIONS

WHAT KEY TOPICS ARE TYPICALLY INCLUDED IN A CALC 2 CHEAT SHEET?

A CALC 2 CHEAT SHEET USUALLY COVERS TOPICS LIKE INTEGRATION TECHNIQUES (SUBSTITUTION, INTEGRATION BY PARTS), SEQUENCES AND SERIES, PARAMETRIC EQUATIONS, POLAR COORDINATES, AND DIFFERENTIAL EQUATIONS.

HOW CAN A CALC 2 CHEAT SHEET HELP ME IMPROVE MY EXAM PERFORMANCE?

IT PROVIDES QUICK ACCESS TO ESSENTIAL FORMULAS, METHODS, AND CONCEPTS, ALLOWING YOU TO SAVE TIME DURING EXAMS AND REINFORCE YOUR UNDERSTANDING OF COMPLEX TOPICS.

ARE THERE ANY RECOMMENDED FORMATS OR LAYOUTS FOR CREATING AN EFFECTIVE CALC 2 CHEAT SHEET?

YES, USING ORGANIZED SECTIONS, CLEAR HEADINGS, COLOR CODING, AND CONCISE FORMULAS CAN MAKE YOUR CHEAT SHEET MORE READABLE AND EASIER TO NAVIGATE UNDER EXAM CONDITIONS.

WHERE CAN I FIND RELIABLE CALC 2 CHEAT SHEETS FOR STUDY AND REVIEW?

RELIABLE RESOURCES INCLUDE UNIVERSITY WEBSITES, ONLINE EDUCATIONAL PLATFORMS LIKE KHAN ACADEMY OR PAUL'S ONLINE MATH NOTES, AND DEDICATED CALCULUS HELP WEBSITES THAT OFFER DOWNLOADABLE CHEAT SHEETS.

WHAT ARE SOME COMMON MISTAKES TO AVOID WHEN USING A CALC 2 CHEAT SHEET?

AVOID OVERLOADING IT WITH UNNECESSARY INFORMATION, RELYING SOLELY ON IT WITHOUT UNDERSTANDING CONCEPTS, AND NOT PRACTICING PROBLEMS TO ENSURE YOU CAN APPLY THE FORMULAS AND METHODS EFFECTIVELY.

ADDITIONAL RESOURCES

CALC 2 CHEAT SHEET: YOUR ULTIMATE GUIDE TO MASTERING CALCULUS II

CALCULUS II IS OFTEN CONSIDERED ONE OF THE MORE CHALLENGING COURSES IN A TYPICAL MATHEMATICS CURRICULUM, COVERING TOPICS THAT REQUIRE BOTH CONCEPTUAL UNDERSTANDING AND COMPUTATIONAL PROFICIENCY. A WELL-STRUCTURED CALC 2 CHEAT SHEET CAN SERVE AS AN INVALUABLE RESOURCE, HELPING STUDENTS TO QUICKLY REVIEW FUNDAMENTAL CONCEPTS, FORMULAS, AND TECHNIQUES ESSENTIAL FOR SUCCESS. IN THIS COMPREHENSIVE REVIEW, WE'LL EXPLORE THE KEY COMPONENTS OF AN EFFECTIVE CALCULUS II CHEAT SHEET, ANALYZE ITS FEATURES, AND PROVIDE INSIGHTS INTO HOW SUCH A RESOURCE CAN BOLSTER YOUR LEARNING PROCESS.

UNDERSTANDING THE PURPOSE OF A CALC 2 CHEAT SHEET

A CHEAT SHEET IS DESIGNED TO CONDENSE VAST AMOUNTS OF INFORMATION INTO A MANAGEABLE, EASY-TO-REFERENCE FORMAT. FOR CALCULUS II, WHICH ENCOMPASSES SERIES, SEQUENCES, INTEGRATION TECHNIQUES, AND DIFFERENTIAL EQUATIONS, A CHEAT SHEET ACTS AS A QUICK REFRESHER, HELPING STUDENTS RECALL FORMULAS, THEOREMS, AND PROBLEM-SOLVING STRATEGIES DURING EXAMS OR PRACTICE SESSIONS.

FEATURES OF AN EFFECTIVE CALC 2 CHEAT SHEET:

- CONCISE SUMMARIES OF KEY CONCEPTS
- STEP-BY-STEP METHODS FOR COMMON PROBLEM TYPES
- CRITICAL FORMULAS AND IDENTITIES
- VISUAL AIDS SUCH AS GRAPHS AND DIAGRAMS
- ORGANIZED LAYOUT FOR EASY NAVIGATION

BENEFITS:

- SAVES TIME DURING PROBLEM-SOLVING
- REINFORCES MEMORY OF ESSENTIAL FORMULAS
- BUILDS CONFIDENCE BY PROVIDING QUICK ACCESS TO NEEDED INFORMATION
- ENHANCES UNDERSTANDING THROUGH STRUCTURED SUMMARIES

CORE TOPICS COVERED IN A CALCULUS II CHEAT SHEET

A COMPREHENSIVE CHEAT SHEET SHOULD COVER THE FOLLOWING MAJOR TOPICS:

1. INTEGRATION TECHNIQUES

INTEGRATION IS AT THE HEART OF CALCULUS II, AND MASTERING VARIOUS TECHNIQUES IS CRUCIAL.

KEY TECHNIQUES:

- INTEGRATION BY SUBSTITUTION: USEFUL FOR INTEGRALS INVOLVING COMPOSITE FUNCTIONS.
- INTEGRATION BY PARTS: APPLIES THE PRODUCT RULE IN REVERSE; ESSENTIAL FOR INTEGRATING PRODUCTS OF FUNCTIONS.
- PARTIAL FRACTION DECOMPOSITION: BREAKS RATIONAL FUNCTIONS INTO SIMPLER FRACTIONS FOR EASIER INTEGRATION.
- TRIGONOMETRIC INTEGRALS AND SUBSTITUTIONS: FOR INTEGRALS INVOLVING SIN, COS, TAN, ETC.
- INTEGRALS OF RATIONAL FUNCTIONS: INCLUDING METHODS TO HANDLE IMPROPER INTEGRALS OR THOSE INVOLVING ASYMPTOTES.

SAMPLE FORMULAS:

- $\int u \, dv = uv - \int v \, du$ (INTEGRATION BY PARTS)
- $\int \frac{P(x)}{Q(x)} \, dx$ PARTIAL FRACTIONS DECOMPOSITION

FEATURES TO INCLUDE:

- STEP-BY-STEP PROCEDURES
- COMMON INTEGRALS AND THEIR SOLUTIONS
- TIPS ON CHOOSING THE APPROPRIATE TECHNIQUE

2. INFINITE SERIES AND SEQUENCES

SEQUENCES AND SERIES ARE FUNDAMENTAL CONCEPTS IN CALCULUS II, INVOLVING CONVERGENCE TESTS AND POWER SERIES.

KEY CONCEPTS:

- DEFINITION OF SEQUENCES AND LIMITS
- GEOMETRIC SERIES: SUM FORMULA, CONVERGENCE CRITERIA
- TELESOPING SERIES
- HARMONIC SERIES AND P-SERIES
- ALTERNATING SERIES TEST
- RATIO AND ROOT TESTS FOR CONVERGENCE
- POWER SERIES AND RADIUS OF CONVERGENCE

SAMPLE FORMULAS:

- SUM OF A GEOMETRIC SERIES: $S = \frac{a}{1 - r}$, $|r| < 1$
- TAYLOR SERIES EXPANSION FOR FUNCTIONS

FEATURES TO INCLUDE:

- CONVERGENCE CRITERIA SUMMARIES
- COMMON SERIES AND THEIR SUMS
- VISUAL AIDS ILLUSTRATING CONVERGENCE BEHAVIORS

3. PARAMETRIC EQUATIONS AND POLAR COORDINATES

UNDERSTANDING ALTERNATIVE COORDINATE SYSTEMS AND THEIR CALCULUS APPLICATIONS.

KEY CONCEPTS:

- CONVERSION FORMULAS BETWEEN CARTESIAN AND POLAR COORDINATES
- DERIVATIVES IN PARAMETRIC FORM
- AREA AND ARC LENGTH CALCULATIONS IN POLAR COORDINATES

SAMPLE FORMULAS:

- $dx/dt = x'(t)$, $dy/dt = y'(t)$
- ARC LENGTH: $L = \int_a^b \sqrt{(dx/dt)^2 + (dy/dt)^2} dt$

FEATURES TO INCLUDE:

- GRAPHICAL REPRESENTATIONS
- STEP-BY-STEP PROCEDURES FOR CALCULATING DERIVATIVES AND INTEGRALS IN THESE SYSTEMS

4. DIFFERENTIAL EQUATIONS

SOLVING DIFFERENTIAL EQUATIONS IS A CRITICAL PART OF CALCULUS II.

COMMON TYPES:

- SEPARABLE EQUATIONS
- LINEAR DIFFERENTIAL EQUATIONS
- EXACT EQUATIONS

SAMPLE SOLUTIONS:

- GENERAL SOLUTIONS TO FIRST-ORDER LINEAR ODES
- METHODS FOR SOLVING HOMOGENEOUS EQUATIONS

FEATURES TO INCLUDE:

- SOLUTION TECHNIQUES SUMMARIZED
- INTEGRATION FACTORS
- APPLICATION EXAMPLES

DESIGNING AN EFFECTIVE CALC 2 CHEAT SHEET

CREATING A CHEAT SHEET THAT IS BOTH COMPREHENSIVE AND EASY TO USE INVOLVES CAREFUL ORGANIZATION AND CLARITY.

BEST PRACTICES:

- USE CLEAR HEADINGS AND SUBHEADINGS
- INCORPORATE DIAGRAMS AND GRAPHS WHERE HELPFUL
- HIGHLIGHT KEY FORMULAS AND IDENTITIES IN BOLD OR COLOR

- INCLUDE EXAMPLE PROBLEMS WITH SOLUTIONS
- KEEP IT TO ONE OR TWO PAGES FOR PORTABILITY

PROS:

- QUICK REFERENCE DURING STUDY OR EXAMS
- REINFORCES LEARNING THROUGH ACTIVE SUMMARIZATION
- HELPS IDENTIFY AREAS NEEDING FURTHER REVIEW

CONS:

- MIGHT OVERSIMPLIFY COMPLEX TOPICS
- MAY ENCOURAGE RELIANCE RATHER THAN UNDERSTANDING
- NEEDS PERIODIC UPDATES TO REMAIN EFFECTIVE

ADDITIONAL TIPS FOR USING A CALC 2 CHEAT SHEET EFFECTIVELY

- PRACTICE WITH THE CHEAT SHEET: USE IT DURING PROBLEM-SOLVING TO REINFORCE RECALL.
- UPDATE REGULARLY: ADD NEW INSIGHTS OR CLARIFY POINTS AS YOU LEARN.
- USE AS A LEARNING TOOL: DON'T JUST MEMORIZE; UNDERSTAND THE WHY BEHIND FORMULAS.
- COMBINE WITH PRACTICE PROBLEMS: APPLYING CONCEPTS IS THE BEST WAY TO SOLIDIFY UNDERSTANDING.

CONCLUSION: THE VALUE OF A CALC 2 CHEAT SHEET

A WELL-CRAFTED CALC 2 CHEAT SHEET IS AN INDISPENSABLE RESOURCE FOR STUDENTS TACKLING THE COMPLEXITIES OF CALCULUS II. IT CONSOLIDATES ESSENTIAL INFORMATION INTO AN ACCESSIBLE FORMAT, ALLOWING FOR QUICK REVIEW AND BOOSTING CONFIDENCE. WHETHER USED DURING EXAMS, HOMEWORK, OR STUDY SESSIONS, SUCH A CHEAT SHEET CAN FACILITATE BETTER UNDERSTANDING, IMPROVE PROBLEM-SOLVING SPEED, AND ULTIMATELY LEAD TO HIGHER ACADEMIC ACHIEVEMENT. REMEMBER, THE KEY TO AN EFFECTIVE CHEAT SHEET LIES IN THOUGHTFUL ORGANIZATION, CLARITY, AND CONTINUOUS REFINEMENT. WITH THESE PRINCIPLES IN MIND, YOUR CALCULUS JOURNEY BECOMES MORE MANAGEABLE AND MORE REWARDING.

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calc 2 cheat sheet: [The Ultimate Cheat Sheets for Math and Physics!](#) Jonathan Tullis, The Wesolvethem Team, 2018-07-23 All the equations and formulas a college student needs isolated in one clear and easy to navigate book!

calc 2 cheat sheet: *Calculus Workbook For Dummies* Mark Ryan, 2015-09-01 Your light-hearted, practical approach to conquering calculus Does the thought of calculus give you a coronary? You aren't alone. Thankfully, this new edition of Calculus Workbook For Dummies makes it infinitely easier. Focusing beyond the classroom, it contains calculus exercises you can work on that will help to increase your confidence and improve your skills. This hands-on, friendly guide gives you hundreds of practice problems on limits, vectors, continuity, differentiation, integration, curve-sketching, conic sections, natural logarithms, and infinite series. Calculus is a gateway and potential stumbling block for students interested in pursuing a career in math, science, engineering, finance, and technology. Calculus students, along with math students in nearly all

disciplines, benefit greatly from opportunities to practice different types of problems—in the classroom and out. *Calculus Workbook For Dummies* takes you step-by-step through each concept, operation, and solution, explaining the how and why in plain English, rather than math-speak. Through relevant instruction and practical examples, you'll soon learn that real-life calculus isn't nearly the monster it's made out to be. Master differentiation and integration Use the calculus microscope: limits Analyze common functions Score your highest in calculus Complete with tips for problem-solving and traps to avoid, *Calculus Workbook For Dummies* is your sure-fire weapon for conquering calculus!

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