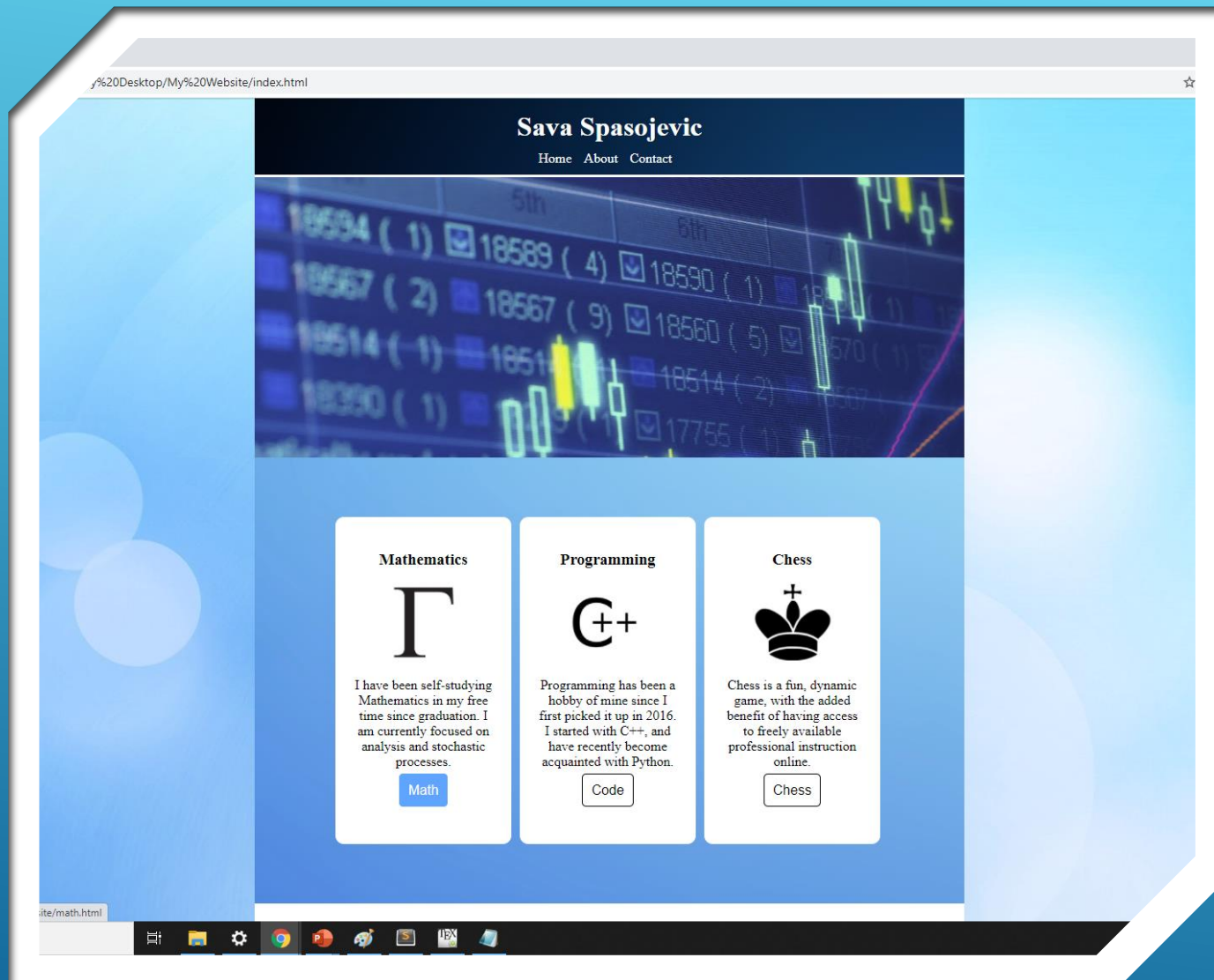


# INTRODUCTION

Mathematical Foundations Lecture Series Part I

09/21/20

Sava Spasojevic



# MATHEMATICS

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*Tentative Schedule.*

09/21/20.....Part I: Introduction  
09/22/20.....Part II: Logic and Rhetoric  
09/23/20.....Part III: Numbers and Sets  
09/24/20.....Part IV: Countability  
09/25/20.....Preface Montage: "A History of Critical Thinking"

09/28/20.....	Part V: The Exponential Function
09/29/20.....	Part VI: The Concept of Measure
09/30/20.....	Part VII: Integration of Positive Functions
10/01/20.....	Part VIII: Expectations and the Standard Machine
10/02/20.....	Montage I: "It Starts With One"

10/05/20.....Part IX: Archimedes Method of Exhaustion  
10/06/20.....Part X: The Riesz Representation Theorem Part I  
10/07/20.....Part XII: The Riesz Representation Theorem Part II  
10/08/20.....Part XIII: Computation of Integrals  
10/09/20.....Montage II: "Make It Happen"

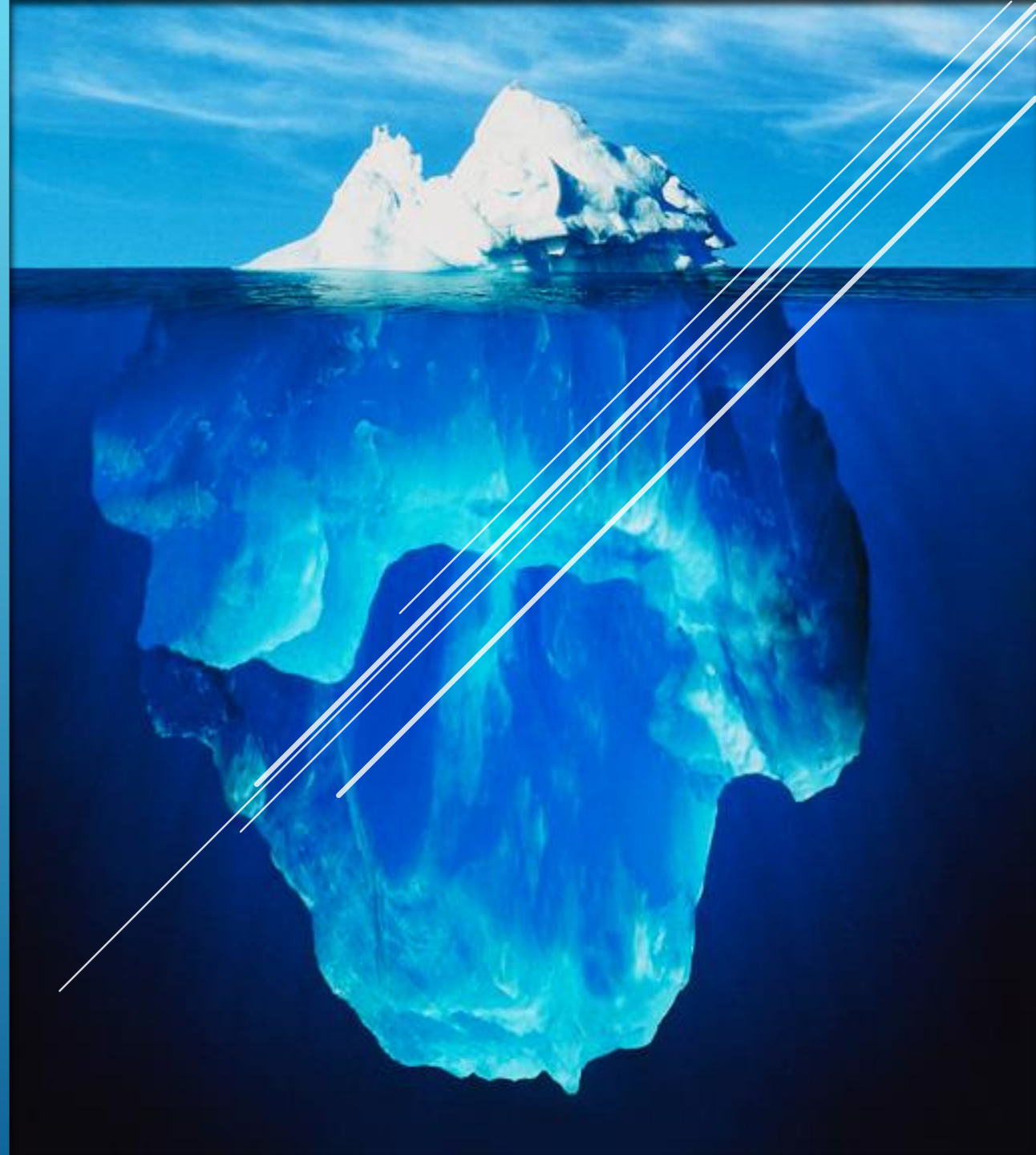
10/12/20.....	Part IX: General Probability
10/13/20.....	Part X: Information and Conditioning
10/14/20.....	Part XII: Gaussian Distribution
10/15/20.....	Part XIII: Probability in Real Life
10/16/20.....	Montage III: "Recovery"

10/19/20.....	Part XIV: Scaled Symmetric Random Walk
10/20/20.....	Part XV: Brownian Motion
10/21/20.....	Part XVI: Characteristics and Risks of Standardized Options
10/22/20.....	Part XVII: Greeks and Hedging
10/23/20.....	Montage IV: "Chess Madness"

10/26/20.....	Part XVIII: Information Theory
10/27/20.....	Part XIX: Lebesgue-Radon-Nikodym
10/28/20.....	Part XX: Risk-Neutral Pricing
10/29/20.....	Part XXI: Stochastic Differential Equations
10/30/20.....	Montage V: "Last Breath"



# RESULTS







RISKS









$$\frac{d}{dt}f(x(t), y(t))$$



