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Autore	Chartier Timothy P. <1969->
Titolo	When life is linear : from computer graphics to bracketology / / Tim Chartier [[electronic resource]]
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Altri autori (Persone)	NelsenRoger B
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Number 1?""; ""12.1 Getting Massey""; ""12.2 Colley Method""; ""12.3 Rating Madness""; ""12.4 March MATHness""; ""12.5 Adding Weight to the Madness""; ""12.6 World Cup Rankings""; ""13 End of the Line""; ""Bibliography""; ""Index""

Sommario/riassunto

"Tim Chartier has written the perfect supplement to a linear algebra course. Every major topic is driven by applications, such as computer graphics, cryptography, webpage ranking, sports ranking and data mining. Anyone reading this book will have a clear understanding of the power and scope of linear algebra." Arthur Benjamin, Harvey Mudd College "Not only is it true that "Life Is Linear," as Tim Chartier asserts, but through his engaging style and modern, enticing applications he brings linear algebra to life. This small volume will be a popular read by math fans of all ages and of all backgrounds. Finally we have a little book that focuses on the utility and power of the theorems of linear algebra and makes that exploration joyful." Edward B. Burger, President and Professor, Southwestern University "I'm often asked which areas of mathematics should students study. I always say linear algebra. However, typical linear algebra texts I've seen either have very few applications, or the applications are contrived and not very relevant to students. Chartier's text is a refreshing change as it is driven by real-world applications that are inspiring and familiar to his audience. From Google searches and image processing to sports rankings and (my favorite) computer graphics." Tony DeRose, Pixar Animation Studios From simulating complex phenomenon on supercomputers to storing the coordinates needed in modern 3D printing, data is a huge and growing part of our world. A major tool to manipulate and study this data is linear algebra. When Life is Linear introduces concepts of matrix algebra with an emphasis on application, particularly in the fields of computer graphics and data mining. Readers will learn to make an image transparent, compress an image and rotate a 3D wireframe model. In data mining, readers will use linear algebra to read zip codes on envelopes and encrypt sensitive information. Chartier details methods behind web search, utilized by such companies as Google, and algorithms for sports ranking which have been applied to creating brackets for March Madness and predict outcomes in FIFA World Cup soccer. The book can serve as its own resource or to supplement a course on linear algebra.

2.

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Autore	Sant Alison
Titolo	From the ground up : local efforts to create resilient cities / / Alison Sant
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Descrizione fisica	1 online resource (306 pages)
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Nota di contenuto	Foreword / by Eric W. Sanderson -- Preface -- Introduction: Reimagining our cities -- Part 1: Reclaim the streets. Places by people, San Francisco ; Safe streets for everyone, Minneapolis ; Making the city accessible, New York City ; Essay: Building the inclusive cities from the ground up / by Tamika L. Butler -- Part 2: Tear up the concrete. Living with water, New Orleans ; Watershed planning, Portland ; Green spaces for all, Philadelphia ; Essay: Green infrastructure lessons from US cities / by Mami Hara -- Part 3: Plant the city. Canopy cover in the "City of trees", Washington, DC ; From street trees to natural areas, New York City ; The forest in the city, Baltimore -- Part 4: Adapt the shoreline. Restoring nature and building equity, San Francisco ; Growing one

billion oysters, New York City ; Moving away from the coast, Louisiana ; Essay: Adapting urban district to sea=level rise by mimicking natural processes / by Kristina Hill -- Conclusion: A path forward.