

Dyeing Printing And Textile

Embellish Me is the ultimate guide to achieving the perfect surface finish for your fabric-based projects. Comprehensive step-by-step instructions are accompanied by detailed illustrations that illuminate an extensive range of fabric alteration and embellishment techniques. Learn tie-dyeing, bleaching, and shibori; block, silk-screen, and digital printing; and beading, embroidery, and applique. This information-rich guide will equip you with all the information you need to apply these techniques to any number of fabric projects, from tote bags and clothes to cushion covers, lampshades, toys, and home furnishings. Galleries throughout the book will inspire you to engage with these techniques, showing how they have been applied to fabric and providing a valuable starting point for your craft. Divided into three sections, Embellish Me begins with essential information on tools and materials, as well as a comprehensive chapter on pattern design, which covers computer-rendered patterns in addition to hand-drawn designs. The second section is organized by technique, covering bleaching, dyeing, and printing, as well as more complex embellishing techniques such as embroidery, needle punching, and foil embossing. Each chapter concludes with an artist interview, giving you insight into the working practices of contemporary fabric crafters, and providing further inspiration for your own projects. The third section rounds out the book with instructions for crafters who want to take their fabric designs to the next level, and offers in-depth advice on important issues such as how aspiring crafters can best market and sell their own designs.

Years of human ignorance has diminished our natural resources and aged our planet. Now, people are making an effort to change the way they are treating the planet. Being more environmentally conscious about the impact materials used for fashion have on our planet is one-way designers can reduce waste and help enable a better world. By going eco-friendly can be less harmful to our natural resources. Not all fashion is following this eco-friendly trend, but more designers are embracing the trend toward eco-fashion than ever before. If the entire fashion industry became eco-friendly, it would make a huge difference for future generations because the fashion industry employs over a billion people globally. There is need for eco-friendly wet processing that is sustainable and beneficial methods. Number of sustainable practices has been implemented by various textile processing industries such as Eco- friendly bleaching; Peroxide bleaching; Eco-friendly dyeing and Printing; Low impact dyes; Natural dyes; Azo Free dyes; Phthalates Free Printing. There are a variety of materials considered "environmentally-friendly" for a variety of reasons. The industry is desperately in the need of newer and very efficient dyeing/finishing and functional treatments of textiles. There is growing awareness and readiness to adapt new perspective on industrial upgradation of Cleaner Production Programme, such new technologies help enterprises achieve green production and cost reduction at the same time. Green Production has become necessary for enterprises under the upgrade and transformation policy. The book Eco-Friendly Textile Dyeing and Finishing covers topics in the area of sustainable practices in textile dyeing and finishing.

Textile dyes enhance our environment, bringing colour into our lives. The current range of dyes have been developed to withstand environmental effects, such as degradation by exposure to light and water. However, the industry involved with the application of

dyes to textiles has a responsibility to ensure that potential for harm to the environment, for example through residues in waste-streams, and to the consumer is minimised. Written by an international team of contributors, this collection reviews current legislation and key technologies which make textile dyeing more efficient and environmentally friendly. The book begins by detailing European and US legislation relating to textile dyeing. Further chapters cover toxicology, environmentally responsible application of dyes and supercritical fluid textile dyeing. The book concludes with chapters on the reduction of pollution and minimisation of waste, the re-use of spent dyebath, chemical treatment of dye effluent and biotechnological treatment of dye effluent. Environmental aspects of textile dyeing is a standard reference source for manufacturers concerned with developing a sustainable industry. Crucial guide to minimising harmful effects on environment and the consumer Reviews current technologies and European and US legislation Essential for all textile manufacturers

The Complete Guide to Designing and Printing Fabric is a comprehensive handbook covering everything there is to know about designing and printing fabric. The book walks readers through the entire fabric design process, from finding inspiration, through step-by-step tutorials on how to design a pattern (both digitally and by hand), looking at different printing methods (such as digital printing, screenprinting, monoprinting, stamping, stencilling, resist dyeing, painting and inkjet printing), to establishing and developing a fabric collection, and approaching a manufacturer. The Complete Guide to Designing and Printing Fabric is full of advice from established fabric designers with clear, easy to follow step-by-step tutorials. Textile design is a competitive industry and learning how to design fabric is something that both designers and crafters with an avid interest in fabrics are keen to learn more about. Companies such as Spoon Flower (spoon.flower.com) have emerged,

The book 'Basics of Textile Chemical Processing' provides basic understanding of concepts related to textile preparatory processes, dyeing, printing and finishing. The book is divided into ten chapters. The introductory chapter provides objectives of preparatory and other processes. The chapters two to five provides basic concepts about preparatory processes such as singeing, desizing, scouring, bleaching and mercerizing process. The chapter six dealt with the classification of dyes and their environmental aspects and chapter seven provides the basic principles of various dyeing machineries. Chapter seven and eight discusses about the basic principles of different printing methods and traditional printing of fabrics. The final chapter deals about the various kinds of value added finishes and their principles. This book is intended to provide useful information to employers, management personnel, professionals, technocrats, supervisors and employees engaged in textile chemical processing.

The type and amount of textile products have greatly proliferated over the last decade. Concomitant textile processing to improve the properties and ultimate performance has also undergone dramatic changes. Ready availability of instrumentation, computers, lasers and integration of these advances with similar progress in polymer/material science have led to the need for a unified discussion on these topics. The current book concisely discusses all aspects of textile processing, modification and performance for four major topics: preparation (by fiber type), dyeing and printing (dye type, theory and synthesis; dye classification by structure and application), improving functional and aesthetic textile properties (physical, chemical and physicochemical processes and

concepts), and performance (chemical analysis, instrumental methods; physical, chemical, biological, multiple influences and standard tests). A detailed and logical progression from the initial purification of textiles to their performance and care is described. The book will be useful as a text for textile/polymer courses at undergraduate and graduate levels and as a comprehensive source of information for textile scientists, engineers, manufacturers, retailers and others with an interest in textile products.

At present the textile industry produces the majority of its 34 billion square yards of printed textile fabric by screen printing. However as we move into the digital age developments in digital printing of paper are being adapted more and more for the textile market. Inkjet textile printing is growing while growth in analog textile printing remains stagnant. As digital print technologies improve offering faster production and larger cost-effective print runs, digital printing will grow to become the technology that provides the majority of the world's printed textiles. This comprehensive introduction to the subject is broken into five sections. After two introductory chapters, it goes on to look in a number of detailed chapters at printer and print head technologies. The next section examines the printer software required for successful colour design and management. The digital printing colouration process is explored next, with chapters on substrate preparation, pigmented ink, aqueous inkjet ink, pre-treatment and printing on cationized cotton with reactive inks. The book is concluded with three chapters on the design and business aspect of digital printing. Digital printing of textiles contains fundamental technical explanations along with recent research, and is an invaluable guide for product developers, retailers, designers and academic researchers. Provides coverage of all the current developments in digital textile printing Covers important areas such as printer and print head technologies, printer software, digital printing colouration and design and business for digital printing

This book follows the creative process of designing and printing textile patterns, from the initial sourcing of ideas to the final high-quality creation. It provides ideas and practical information at a level easily accessible to textile students and designers, but also to novices who would like to learn more. Throughout, the text is enhanced by an exciting range of images, from historical surface-pattern designs and textiles to the work of contemporary designers. Topics include advice on generating ideas and expressing them visually; a cultural and historical background to surface-pattern design; experimental methods of working from paper onto fabric; and practical details on fabrics, equipment, and techniques for dyeing and printing. June Fish teaches at London's Central St. Martins College for Art and Design.

Fabric Dyeing and Printing

With the rapid expansion of ink jet printing, textile printing and allied industries need to understand the principles underpinning this technology and how it is currently being successfully implemented into textile products. Considering the evolution of new print processes, technological development often involves a balance of research across different disciplines. Translating across the divide between scientific research and real-world engagement with this technology, this comprehensive publication covers the basic principles of ink jet printing and how it can be applied to textiles and textile products. Each step of the ink jet printing process is covered, including textiles as a substrate, colour management, pre-treatments, print heads, inks and fixing processes.

This book also considers the range of textile printing processes using ink jet technology, and discusses their subsequent impact on the textile designer, manufacturer, wholesaler, retailer and the environment. Covers the foundations and development of ink jet textile printing technology Discusses the steps of ink jet printing from colour management to fixing processes Analyses how ink jet printing has affected the textile industry

Contains instructions and techniques for printing on fabric, covering block printing, silk screen, batik printing, and more.

Inspiration and easy-to-follow instruction for creating dyed fabrics in a variety of patterns, textures and colors.

Textile manufacturing is an important subject in textile programs and processing industries. The introduction of manmade and synthetic fibers, such as polyester, nylon, acrylic, cellulose, and Kevlar, among others, has greatly expanded the variety of textile products available today. In addition, new fiber development has brought about new machines for producing yarns, fabrics, and garments. Textile Manufacturing Processes is a collection of academic and research work in the field of textile manufacturing.

Written by experts, chapters cover topics such as yarn manufacturing, fabric manufacturing, and garment and technical textiles. This book is useful for students, industry workers, and anyone interested in learning the fundamentals of textile manufacturing.

During the dyeing process, losses of colorants to the water sources can be toxic and mutagenic and also decreases light penetration and photosynthesis activity. In recent years, since textile industry can generate large volumes of effluents, textile wastewater treatments have received considerable attention. The aim of this book is to look into textile wastewater treatments shortly. It is designed for readers who study on textile dyeing effluent. I would like to record my sincere thanks to authors for their contributions.

Complex raw materials and manufacturing processes mean the textile industry is particularly dependent on good process control to produce high and consistent product quality. Monitoring and controlling process variables during the textile manufacturing process also minimises waste, costs and environmental impact. Process control in textile manufacturing provides an important overview of the fundamentals and applications of process control methods. Part one introduces key issues associated with process control and principles of control systems in textile manufacturing. Testing and statistical quality control are also discussed before part two goes on to consider control in fibre production and yarn manufacture. Chapters review process and quality control in natural and synthetic textile fibre cultivation, blowroom, carding, drawing and combing. Process control in ring and rotor spinning and maintenance of yarn spinning machines are also discussed. Finally part three explores process control in the manufacture of knitted, woven, nonwoven textiles and colouration and finishing, with a final discussion of process control in apparel manufacturing. With its distinguished editors and international team of expert contributors, Process control in textile manufacturing is an essential guide for textile engineers and manufacturers involved in the processing of textiles, as well as academic researchers in this field. Provides an important overview of the fundamentals and applications of process control methods Discusses key issues associated with process control and principles of control systems in textile manufacturing, before addressing testing and statistical quality control Explores process control in the manufacture of knitted, woven, nonwoven textiles and colouration and finishing, with a discussion on process control in apparel manufacturing

This work guides the reader through the choice of fabric types, the range of dye recipes and the profusion of traditional and new techniques. Exploring the patterning options with the help of detailed step-by-step photography, this book enables the reader to choose and work through any one of the over 30 techniques including: Preparing natural dyes; to printing with foils; hand-block printing to screen printing and the use of resist techniques. In addition, the work of contemporary designers such as Georgina von Ezdorf, Timney Fowler, Cressida Bell, and Janet Stoye, is highlighted to demonstrate how techniques can be combined and interpreted. This is a clear, easy-to-follow guide for students, accomplished artists and designers who want to expand their knowledge of techniques for dyeing and screenprinting on textiles. The book covers many of the key processes used in creating dyed and screen-printed fabrics using a range of synthetic dyes. Included are recipes for cloth preparation, instructions for dyeing, printing, and fixing dyes, designing repeats, and preparing imagery and screens for exposure. The step-by-step instructions are accompanied by inspirational illustrations from practitioners around the world. Advice is also given on equipment needed for setting up a studio and safe working practice. This new edition of Dyeing and Screenprinting on Textiles has been fully updated and contains many new photographs.

Provides an accessible guide to hand-printing fabric, and includes tips on translating design ideas into prints, the different modes of transfer, and how to use effective color combinations. As society has become increasingly concerned with the protection and preservation of the environment, many industries have been pushed to comply with new policies and social demands for more environmentally-friendly and sustainable practices and products. However, the textile dyeing industry remains a significant source of complex environmental issues with legislative requirements that often vary in detail and severity concerning the exposure and hazards of potentially harmful chemicals and other associated materials. It is vital that the industry sector involved in the application of dyes continues to be sensitive to potential adverse effects on the environment in its widest sense and respond accordingly. Impact of Textile Dyes on Public Health and the Environment is an essential reference source that focuses on the environmental impact and social responsibility of the dyeing industry. While highlighting topics such as toxicology, bleaching, and greenhouse gases, this publication is ideally designed for chemists, industrialists, non-governmental organization members, environmentalists, fashion designers, clothes manufacturers, scientists, academicians, researchers, students, and practitioners seeking current research on dyeing's potentially adverse effects on the environment and strategic, effective responses.

PREFACE: IN the present volume, dealing with the Chemical Technology of the Textile Fibres except as concerns the dye-stuffs, which will be treated in a separate work, the author has been obliged to condense the available matter as much as possible, in order to preserve the form of a text-book. Nevertheless, it seemed necessary, in certain cases, in the interests of the book, to give definite data and an exact description of individual processes. In such instances the details have been gathered exclusively either from the authors personal experience or from reliable sources. The most important part of the book is the chapter treating of dyeing, whilst, on the other hand, the subject of printing had to be dealt with in a more general fashion, the materials being less suitable for treatment in text-book style. The author thinks it desirable to point out that in the present work an attempt has been made to completely separate the chemical and mechanical technology of the subject, a standpoint he considers justified by the extensive area occupied by each of these branches. Hence only a few sketches of apparatus have been given and the methods of dressing the finished goods have been described very briefly, since they almost entirely belong to the domain of mechanical technology. ...GEOEG VON GEOEGIEVICS. Artificial Fibres . Mineral, . Vegetable Cellulose..... Cotton Bombax Cotton Vegetable Silk Flax .- Hemp Jute Ramie, Rhea, China Grass, Nettle Fibre . Contents include: CHAPTER L THE TEXTILE FIBRES Distinguishing Tests for the

Various Fibres Animal Fibres Silk . . Animal Hairs . Sheeps Wool . Goat Wool and Camel Wool Artificial Wool Wool Substitutes Conditioning CHAPTER II. WASHING, BLEACHING, CARBONISING Washing and Bleaching Definition Bleaching Agents ... Cotton-Bleaching PAGE iii 1 2 2 3 8 12 12 12 16 17 19 20 2-2 23 34 35 45 46 19 50 53 viii CONTENTS Linen-Bleaching . . . Ramie-Bleaching... Hemp-Bleaching... Jute-Bleaching . 76 Scouring and Bleaching Silk 77 Washing and Bleaching Wool ... 80 Blueing or White 86 Dyeing... Carbonising 87 CHAPTER III. MORDANTS AND MORDANTING Mordants..... 95 Mordanting Wool 96 Mordanting Silk 98 Mordanting Cotton 99 Alumina Mordants 102 Mordants..... Iron Mordants ,106 Chrome 108 Tin Mordants 112 Copper and other Mordants 114 The Fixing Agents Acid Mordants 115 Tannic Acids Oleic Acids . . . PAGE 116 - 122 CHAPTER IV. DYEING 1. Theory of Colour Combination of Colours Dyeing to Pattern . . 125 2. Theory of Dyeing 130 3. Classification of Dye-Stuffs Methods of Dyeing , 138 Application of Acid Dye-Stuffs Application of Basic v . Dye-Stuffs . , . . - 143 Application of Direct or Substantive Cotton Dyes..... . Dyes . . 146 Application of the Mordant 154 Dyeing with Cochineal 160 Dyeing with Catechu..... 178 Black and Blue Dyeings with Logwood on Wool . . . 163 Turkey-Red Dyeing . . . - . . 172 Black-Dyeing Cotton with Logwood..... 180 ...

This book contains the industrial experiences of 25 years working in various dye house of corporate production houses in India and abroad by the author. It deals in details the various types of fibre dyeing, yarn dyeing, fabric dyeing and garment dyeing with process parameters and dyeing cycle of polyester, cotton, acrylic and viscose dyeing. The main chapters are subdivided into sub chapters dealing with all the details of dyeing. Different machines used for textile dyeing are also included along with diagrams. This book will be interesting for textile degree and diploma students and researchers and supervisors and dyeing head working in various industries. The language used is very simple and easy to grasp.

Covers the chemical aspects of textile printing, the nature of dyes, printing techniques, preparation of the cloth, finishing and colorfastness testing, with an introductory section on fabrics and fibers

This book on 'Chemistry and Technology of Natural and Synthetic Dyes and Pigments' is a priority publication by IntechOpen publisher and it relates to sustainable approaches towards green chemical processing of textiles, specifically on dyeing with natural dyes and pigments as well as dyeing with eco-safe synthetic dyes and chemicals. This book includes the following chapters: an introductory editorial chapter on bio-mordants, bio-dyes and bio-finishes, a review of natural dyes and pigments and its application, pantone-like shade generation with natural colorants, colour-based natural dyes and pigments, printing with natural dyes and pigments, functional property and functional finishes with natural dyes and pigments, eco-safe synthetic dyes and chemicals, and a miscellaneous review on dyed textiles and clothing including natural dye-based herbal textiles. This new book is expected to be useful for dyers of the textile industry as well as to the future researchers in this field.

This is a comprehensive book that imparts technological skills about the colouration of textiles. It discusses academic as well as shop-floor aspects of colouration. It also covers eco-friendly enzymatic processing and differential coloured effects.

General chemistry related to textiles -- Textile fibres -- Chemistry of dyes and pigments -- Industrial coloration methods -- Textile printing -- Theoretical aspects of dyeing -- The measurement of colour -- Fastness testing

Internationally renowned dyer and artist India Flint draws on her years of experience and experimentation in natural dyeing techniques to present an expert, highly accessible and achievable handbook of ecologically sustainable plant dye methods using renewable resources, most of which can be found in the average home garden. Eco Colour is regarded by many as a textbook of sustainability and uses an exciting range of projects to demonstrate a

variety of techniques, some of them processes developed by the author, including the now widely adopted ecoprint. Projects range from solar dyeing to dyeing with 'ice-flowers'. The result is a boundless range of pure, gentle, natural colours produced with the least possible harm to the environment and the dyer.

The use of distinctive colourants and finishes has a significant impact on the aesthetic appeal and functionality of technical textiles. Advances in the textile chemical industry facilitate production of diverse desirable properties, and are therefore of great interest in the production of textile products with enhanced performance characteristics. Drawing on key research, Advances in the dyeing and finishing of technical textiles details important advances in this field and outlines their development for a range of applications. Part one reviews advances in dyes and colourants, including chromic materials, optical effect pigments and microencapsulated colourants for technical textile applications. Other types of functional dyes considered include UV- absorbent, anti-microbial and water-repellent dyes. Regulations relating to the use of textile dyes are discussed before part two goes on to investigate such advances in finishing techniques as mechanical finishing, softening treatments and the use of enzymes. Surfactants, Inkjet printing of technical textiles and functional finishes to improve the comfort and protection of apparel are also explored. The use of nanotechnology in producing hydrophobic, super-hydrophobic and antimicrobial finishes is dealt with alongside coating and lamination techniques, before the book concludes with a discussion of speciality polymers for the finishing of technical textiles. With its distinguished editor and international team of expert contributors, Advances in the dyeing and finishing of technical textiles is a comprehensive guide for all those involved in the development, production and application of technical textiles, including textile chemists, colour technologists, colour quality inspectors, product developers and textile finishers. Discusses important advances in the textile chemical industry Considers developments in various dyes and colourants used in the industry, including water repellent, functional and anti-microbial dyes Chapters also examine advances in finishing techniques, the use of nanotechnology and speciality polymers in technical textiles

Beginning with studio practices and safety rules, this information-packed handbook is appropriate for both newcomers and experienced dyers but assumes that readers have a serious interest in textile design. An overview of dyeing starts with fibers and fabrics and discusses all aspects of the dyes favored by textile studios--fiber reactive, acid, vat, and disperse--before explaining discharging, screen printing, monoprinting, stamping, stenciling, resist dyeing, devore, and painting. Would-be fabric artists are advised along the way to identify a personal approach to dyeing--free spirit? rule-follower?--and color photographs of work by today's top fiber artists elucidate prevailing styles. Recipes and techniques are accompanied by step-by-step instructions with photographs, and a concealed spiral binding allows the book to lie flat. Ten appendices include a worksheet for recording chemicals, procedures, and costs for all projects; a guide to washing fabric; descriptions of stock solutions, thickeners, and steaming; a metric conversion table; and a guide to water temperatures.

Stenciling, batik, block printing, tie dyeing, freehand painting, silk screen printing, and a number of novelty decorations such as relief and ball point painting, flocking, and transferring pictures are all covered in this well-known introduction. If you have ever wanted to create your own fabric designs, from adding stenciled or printed details to creating overall designs with batik or tie dyeing, this book will guide you quickly and easily to the best techniques. Through over 350 illustrations and complete step-by-step explanations, the author leads you through every step of each technique from gathering materials and creating designs all the way through until the finishing touches have been completed. Along the way you will have learned basic design considerations — the way each technique creates its own design limitations, two- and three-color processes, the best inks and dyes for each technique, the tools (including how to

make many of them), the working area set up, and many unusual effects with basic exercises, specific projects, and the best procedures for using all the basic methods you are likely to use. With so many methods contained in one book, you can easily discover the ones best suited to your own time, budget, and needs. In addition, a number of illustrations of completed items give you a better idea of the possibilities of each technique and show the best examples of each. Artists, designers, students, and craftsmen will welcome this opportunity to learn a number of techniques for the hand decoration of fabric. By the time you finish you will be well acquainted with the most successful methods that you can use and can go on to design and decorate fabrics on your own.

This authoritative guide outlines everything readers need to know to create gorgeous fabrics. There's nothing like it on the market! Collected within are step-by-step tutorials for designing patterns (both digitally and by hand), a comprehensive section on printing techniques—including digital printing, screen printing, stenciling, block printing, and resist dyeing—and even insider tips for developing a collection and bringing it to the marketplace. Beautifully illustrated with swatches of exquisite fabrics and hundreds of photos, and featuring interviews with established designers such as Skinny laMinx, Ink & Spindle, and Julia Rothman, *Mastering the Art of Fabric Printing and Design* is a key resource for anyone looking to learn the basics, expand their skill set, or find design inspiration.

Dyeing is one of the most effective and popular methods used for colouring textiles and other materials. Dyes are employed in a variety of industries, from cosmetic production to the medical sector. The two volumes of the *Handbook of textile and industrial dyeing* provide a detailed review of the latest techniques and equipment used in the dyeing industry, as well as examining dyes and their application in a number of different industrial sectors. Volume 2 deals with major applications of dyes and is divided into two parts. Part one covers textile applications, with chapters dealing with the dyeing of wool, synthetic and cellulosic fibres, and textile fibre blends. In part two, industrial applications of dyes are examined, with topics including dyes used in food and in the cosmetics industry. With its distinguished editor and contributions from some of the world's leading authorities, the *Handbook of textile and industrial dyeing* is an essential reference for designers, colour technologists and product developers working in a variety of sectors, and will also be suitable for academic use. Provides a detailed review of the latest techniques and equipment used in the dyeing industry Industrial applications of dyes are examined, with topics including dyes used in food and in the cosmetics industry Is appropriate for a variety of different readers including designers, colour technologists, product developers and those in academia

In the past, only organic matter was available for making dyes. Today, there are numerous options and methods for the colorization of textiles. While today's methods capitalize on efficiency, there is question as to whether the use of chemicals is harmful to the environment. A reputation for harming the earth could be detrimental to a company in a society becoming more and more focused on the environment and its preservation. Today, with the invention of synthetic materials used in textiles, many new types of dyes have been developed and put into regular use. There are two basic ways to color textiles: dyes and pigments. Pigments are not a dye but rather resins mechanically bound to fibers. Dyes are divided into classes according to the types of fibers they are most compatible with. Textile printing is related to dyeing but, whereas in dyeing proper the whole fabric is uniformly covered with one color, in printing one or more colors are applied to it in certain parts only, and in sharply defined patterns. Dyes will yield the softest hand (the "hand" is the feel of the fabric) and maintain the fabric's luster but the process is expensive. Pigments are much more economical to use. Pigments are generally more lightfast, more colorfast, and give greater color control. Pigment technology has developed tremendously in the past 15 years. 85% of the textile printing in the World is pigment printing. This book contains manufacturing process and other related details about

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Azine dyes, Azoic dyes, Azo dyes, Thiazole dyes, Triphenylmethane dyes, scientific classification of Vat dyes, fluorination of dyes, different types of pigments, applications, usages of dyes and pigments, quality control and evaluation of pigments and many more. This book will serve as a guide to Textile Technologists, Scientists and existing as well as upcoming industries.

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