

FOURTH EDITION



FILM HISTORY

HISTORY

AN INTRODUCTION



KRISTIN THOMPSON

DAVID BORDWELL



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FILM HISTORY

An Introduction
Fourth Edition

Kristin Thompson

David Bordwell

University of Wisconsin–Madison



FILM HISTORY: AN INTRODUCTION, FOURTH EDITION

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To Gabrielle



Chez Léon tout est bon

CONTENTS

About the Authors xiii

Preface to the Fourth Edition xiv

Part One EARLY CINEMA 1

1 THE INVENTION AND EARLY YEARS OF THE CINEMA, 1880s-1904 3

The Invention of the Cinema 4

Preconditions for Motion Pictures 4 / Major Precursors of Motion Pictures 5 / An International Process of Invention 6

Early Filmmaking and Exhibition 11

Scenics, Topicals, and Fiction Films 11 / Creating an Appealing Program 11

BOX: THE SPREAD OF THE CINEMA AROUND THE WORLD: SOME REPRESENTATIVE EXAMPLES 12

The Growth of the French Film Industry 13

BOX: GEORGES MÉLIÈS, MAGICIAN OF THE CINEMA 14

England and the Brighton School 16 / The United States: Competition and the Resurgence of Edison 17

Reference 21

2 THE INTERNATIONAL EXPANSION OF THE CINEMA, 1905-1912 22

Film Production in Europe 22

France: Pathé versus Gaumont 22 / Italy: Growth through Spectacle 24 / Denmark: Nordisk and Ole Olsen 25 / Other Countries 26

The Struggle for the Expanding American Film Industry 26

The Nickelodeon Boom 26 / The Motion Picture Patents Company versus the Independents 27 / Social Pressures and Self-Censorship 29 / The Rise of the Feature Film 29 / The Star System 30 / The Movies Move to Hollywood 30

BOX: THE BEGINNINGS OF FILM ANIMATION 31

The Problem of Narrative Clarity 33

Early Moves toward Classical Storytelling 33

BOX: D. W. GRIFFITH AND ALBERT CAPELLANI: TWO EARLY MASTERS OF THE CINEMA 40

An International Style 42

References 43

3 NATIONAL CINEMAS, HOLLYWOOD CLASSICISM, AND WORLD WAR I, 1913-1919 44

The American Takeover of World Markets 45

The Rise of National Cinemas 46

Germany 46 / Italy 47 / Russia 48

BOX: THE BRIEF HEYDAY OF THE SERIAL 50

France 51 / Denmark 52 / Sweden 53

The Classical Hollywood Cinema 56
The Major Studios Begin to Form 56 / *Controlling Filmmaking* 57 / *Filmmaking in Hollywood during the 1910s* 58

BOX: PRECISION STAGING IN EUROPEAN CINEMA 60

Films and Filmmakers 61 / *Streamlining American Animation* 66

Trends in Smaller Producing Countries 67

References 68

.....
Part Two THE LATE SILENT ERA, 1919–1929 69

4 FRANCE IN THE 1920s 71

The French Film Industry after World War I 71
Competition from Imports 71 / *Disunity within the Film Industry* 72 / *Outdated Production Facilities* 72

Major Postwar Genres and Filmmakers 73

The French Impressionist Movement 74
The Impressionists' Relation to the Industry 74

BOX: A CHRONOLOGY OF FRENCH IMPRESSIONIST CINEMA 75

Impressionist Theory 76 / *Formal Traits of Impressionism* 77

The End of French Impressionism 84
Problems within the Film Industry 84

References 85

5 GERMANY IN THE 1920s 86

The German Situation after World War I 86

Genres and Styles of German Postwar Cinema 87
Spectacles 87 / *The German Expressionist Movement* 88

BOX: A CHRONOLOGY OF GERMAN EXPRESSIONIST CINEMA 89

Kammerspiel 94 / *German Films Abroad* 95

Major Changes in the Mid-to-Late 1920s 95
The Technological Updating of the German Studios 95 / *The End of Inflation* 97

The End of the Expressionist Movement 98

New Objectivity 98

BOX: G. W. PABST AND NEW OBJECTIVITY 100

Export and Classical Style 100

References 102

6 SOVIET CINEMA IN THE 1920s 103

The Hardships of War Communism, 1918–1920 103
The Kuleshov Group 105

Recovery under the New Economic Policy, 1921–1924 106
Centralized Distribution 107 / *Regularized Production* 107

Increased State Control and the Montage Movement, 1925–1930 108

Growth and Export in the Film Industry 108 / *The Influence of Constructivism* 109 / *A New Generation: The Montage Filmmakers* 110

BOX: A CHRONOLOGY OF THE SOVIET MONTAGE MOVEMENT 112

The Theoretical Writings of Montage Filmmakers 113 / *Soviet Montage Form and Style* 113

Other Soviet Films 121

The First Five-Year Plan and the End of the Montage Movement 122

References 123

7 THE LATE SILENT ERA IN HOLLYWOOD, 1920–1928 124

Theater Chains and the Expansion of the Industry 125
Vertical Integration 125 / *Picture Palaces* 126 / *The Big Three and the Little Five* 126

The Motion Picture Producers and Distributors of America 127

Studio Filmmaking 128

Style and Technological Changes 128 / Big-Budget Films of the 1920s 130 / New Investment and Blockbusters 132 / Genres and Directors 134

BOX: 1920s COMEDY IN HOLLYWOOD 134

Foreign Filmmakers in Hollywood 139

Films for African American Audiences 143

The Animated Part of the Program 144

Reference 146

8 INTERNATIONAL TRENDS OF THE 1920s 147

“Film Europe” 147

Postwar Animosities Fade 147 / Concrete Steps toward Cooperation 148 / Success Cut Short 149

The “International Style” 150

The Blending of Stylistic Traits 150 / Carl Dreyer: European Director 151

Film Experiments outside the Mainstream Industry 153

Abstract Animation 153

BOX: THE SPREAD OF “ART CINEMA” INSTITUTIONS 154

Dada Filmmaking 156 / Surrealism 158 / Cinéma Pur 159 / Lyrical Documentaries: The City Symphony 160 / Experimental Narrative 162

Documentary Features Gain Prominence 164

Commercial Filmmaking Internationally 165

Japan 165 / Great Britain 166 / Italy 167 / Some Smaller Producing Countries 168

References 169

Part Three THE DEVELOPMENT OF SOUND CINEMA, 1926–1945 170

9 THE INTRODUCTION OF SOUND 172

Sound in the United States 173

Warner Bros. and Vitaphone 173 / Sound-on-Film Is Adopted 173 / Sound and Filmmaking 174

BOX: EARLY SOUND TECHNOLOGY AND THE CLASSICAL STYLE 175

Germany Challenges Hollywood 178

Dividing the International Pie 178 / The Early Sound Era in Germany 179

The USSR Pursues Its Own Path to Sound 182

The International Adoption of Sound 183

France 184 / Great Britain 185 / Japan 186 / Wiring the World’s Theaters for Sound 187 / Crossing the Language Barrier 187

References 188

10 THE HOLLYWOOD STUDIO SYSTEM, 1930–1945 189

The New Structure of the Film Industry 190

The Big Five 190

BOX: THE HAYS CODE: SELF-CENSORSHIP IN HOLLYWOOD 192

The Little Three 192 / The Independents 194

Exhibition Practice in the 1930s 194

Continued Innovation in Hollywood 195

Sound Recording 195 / Camera Movement 196 / Technicolor 196 / Special Effects 197 / Cinematography Styles 198

Major Directors 199

The Silent Veterans 199 / New Directors 202

BOX: CITIZEN KANE AND THE MAGNIFICENT AMBERSONS 203*New Émigré Directors 204***Genre Innovations and Transformations 204***The Musical 204 / The Screwball Comedy 205 / The Horror Film 206 / The Social Problem Film 207 / The Gangster Film 208 / Film Noir 208 / The War Film 210***Animation and the Studio System 211**

References 212

11 OTHER STUDIO SYSTEMS 213**Quota Quickies and Wartime Pressures: The British Studios 213***The British Film Industry Grows 213 / Export Successes 215 / Alfred Hitchcock's Thrillers 216 / Crisis and Recovery 216 / The Effects of the War 218***Innovation within an Industry: The Studio System of Japan 220***Popular Cinema of the 1930s 220 / The Pacific War 222***BOX: YASUJIRO OZU AND KENJI MIZOGUCHI IN THE 1930s 223****India: An Industry Built on Music 229***A Highly Fragmented Business 229 / Mythologicals, Socials, and Devotionals 229 / Independents Weaken the System 230***China: Filmmaking Caught between Left and Right 230**

References 232

12 CINEMA AND THE STATE: THE USSR, GERMANY, AND ITALY, 1930-1945 233**The Soviet Union: Socialist Realism and World War II 233***Films of the Early 1930s 234 / The Doctrine of Socialist Realism 234***BOX: SOCIALIST REALISM AND CHAPAYEV 235***The Main Genres of Socialist Realism 236 / The Soviet Cinema in Wartime 239***The German Cinema under the Nazis 241***The Nazi Regime and the Film Industry 242 / Films of the Nazi Era 242 / The Aftermath of the Nazi Cinema 246***Italy: Propaganda versus Entertainment 246***Industry Tendencies 246 / A Cinema of Distraction 247 / A New Realism? 249*

References 251

13 FRANCE: POETIC REALISM, THE POPULAR FRONT, AND THE OCCUPATION, 1930-1945 252**The Industry and Filmmaking during the 1930s 253***Production Problems and Artistic Freedom 253 / Fantasy and Surrealism: René Clair, Pierre Prévert, and Jean Vigo 253 / Quality Studio Filmmaking 255 / Émigrés in France 256 / Everyday Realism 257***Poetic Realism 258***Doomed Lovers and Atmospheric Settings 258 / The Creative Burst of Jean Renoir 259 / Other Contributors 261***Brief Interlude: The Popular Front 261****BOX: POPULAR FRONT FILMMAKING: LA VIE EST À NOUS AND LA MARSEILLAISE 262****Filmmaking in Occupied and Vichy France 265***The Situation in the Film Industry 265 / Films of the Occupation Period 267*

Reference 269

14 LEFTIST, DOCUMENTARY, AND EXPERIMENTAL CINEMAS, 1930-1945 270**The Spread of Political Cinema 270***The United States 271 / Germany 272 / Belgium and the Netherlands 272 / Great Britain 273 / International Leftist Filmmaking in the Late 1930s 274***Government- and Corporate-Sponsored Documentaries 275***The United States 275 / Great Britain 277***BOX: ROBERT FLAHERTY: MAN OF ARAN AND THE "ROMANTIC DOCUMENTARY" 278****Wartime Documentaries 279***Hollywood Directors and the War 279 / Great Britain 281 / Germany and the USSR 282***The International Experimental Cinema 283***Experimental Narratives and Lyrical and Abstract Films 283 / Surrealism 284 / Animation 285*

References 288

.....

Part Four THE POSTWAR ERA: 1945–1960s 289

.....

15 AMERICAN CINEMA IN THE POSTWAR ERA, 1945–1960 291

Postwar Changes, 1946–1948 292

The HUAC Hearings: The Cold War Reaches Hollywood 292 / *The Paramount Decision* 292

The Decline of the Hollywood Studio System 293

Changing Lifestyles and Competing Entertainment 294

BOX: SEE IT ON THE BIG SCREEN 295

Hollywood Adjusts to Television 298 / *Art Cinemas and Drive-Ins* 299 / *Challenges to Censorship* 300

The New Power of the Individual Film and the Revival of the Roadshow 300

The Rise of the Independents 301

Mainstream Independents: Agents, Star Power, and the Package 301 / *Exploitation* 303 / *Independents on the Fringe* 304

Classical Hollywood Filmmaking: A Continuing Tradition 304

Complexity and Realism in Storytelling 304 / *Stylistic Changes* 305 / *New Twists on Old Genres* 306

Major Directors: Several Generations 309

Veterans of the Studio Era 309 / *Émigrés Stay On* 310 / *Welles's Struggle with Hollywood* 311 / *The Impact of the Theater* 311

BOX: ALFRED HITCHCOCK 312

New Directors 314

References 315

16 POSTWAR EUROPEAN CINEMA: NEOREALISM AND ITS CONTEXT, 1945–1959 316

The Postwar Context 316

Film Industries and Film Culture 317

West Germany: "Papás Kino" 317 / *Resistance to US Encroachment* 318 / *Art Cinema: The Return of Modernism* 320

Italy: Neorealism and After 322

Italian Spring 322

BOX: NEOREALISM AND AFTER: A CHRONOLOGY OF EVENTS AND SELECTED WORKS 323

Defining Neorealism 325

BOX: UMBERTO D.: THE MAID WAKES UP 327

BOX: OPEN CITY: THE DEATH OF PINA 328

Beyond Neorealism 329

BOX: LUCHINO VISCONTI AND ROBERTO ROSSELLINI 330

A Spanish Neorealism? 332

References 333

17 POSTWAR EUROPEAN CINEMA: FRANCE, SCANDINAVIA, AND BRITAIN, 1945–1959 334

French Cinema of the Postwar Decade 334

The Industry Recovers 334

BOX: POSTWAR FRENCH FILM CULTURE 335

The Tradition of Quality 336 / *The Return of Older Directors* 338 / *New Independent Directors* 342

Scandinavian Revival 343

BOX: CARL THEODOR DREYER 345

England: Quality and Comedy 346

Problems in the Industry 346 / *Literary Heritage and Eccentricity* 347 / *Art-House Success Abroad* 349

References 349

18 POSTWAR CINEMA BEYOND THE WEST, 1945–1959 350

General Tendencies 350

Japan 352

Industry Recovery under the Occupation 352 / *The Veteran Directors* 353 / *The War Generation* 355

Postwar Cinema in the Soviet Sphere of Influence 355

The USSR: From High Stalinism to the Thaw 356 / *Postwar Cinema in Eastern Europe* 358

People's Republic of China 362
Civil War and Revolution 362 / Mixing Maoism and Tradition 364

India 365
A Disorganized but Prolific Industry 365 / The Populist Tradition and Raj Kapoor 366

BOX: MUSIC AND POSTWAR INDIAN FILM 367

Swimming against the Stream: Guru Dutt and Ritwik Ghatak 368

Latin America 369
Brazil and Argentina 369 / Mexican Popular Cinema 370
 References 371

19 ART CINEMA AND THE IDEA OF AUTHORSHIP 372

The Rise and Spread of the Auteur Theory 372

Authorship and the Growth of the Art Cinema 373

Luis Buñuel (1900–1983) 374

Ingmar Bergman (1918–2007) 376

Akira Kurosawa (1910–1998) 378

Federico Fellini (1920–1993) 381

Michelangelo Antonioni (1912–2007) 383

Robert Bresson (1907–1999) 385

Jacques Tati (1908–1982) 387

Satyajit Ray (1921–1992) 389

References 392

20 NEW WAVES AND YOUNG CINEMAS, 1958–1967 393

The Industries' New Needs 393

Formal and Stylistic Trends 394

France: New Wave and New Cinema 397

The New Wave 397

BOX: FRANÇOIS TRUFFAUT AND JEAN-LUC GODARD 399

New Cinema: The Left Bank 401

Italy: Young Cinema and Spaghetti Westerns 404

Great Britain: Kitchen Sink Cinema 407

Young German Film 409

New Cinema in the USSR and Eastern Europe 410

Young Cinema in the Soviet Union 410 / New Waves in Eastern Europe 413

BOX: MIKLÓS JANCsó 418

The Japanese New Wave 421

An Industry in Search of Youth 421 / Oshima and Others 422

Brazil: Cinema Novo 424

Government Support and New Directors 424 / Coups and the Cinema 426 / Tropicalism and Cannibalism 427

References 427

21 DOCUMENTARY AND EXPERIMENTAL CINEMA IN THE POSTWAR ERA, 1945–MID-1960s 429

Toward the Personal Documentary 430

Innovative Trends 430 / The National Film Board and Free Cinema 432 / France: The Auteurs' Documentaries 432 / Jean Rouch and Ethnographic Documentary 434

Direct Cinema 435

The United States: Drew and Associates 435

BOX: NEW TECHNOLOGY FOR THE NEW DOCUMENTARY 436

Direct Cinema in Bilingual Canada 437 / France: Cinéma Vérité and Provocation 438

Experimental and Avant-Garde Cinema 441

BOX: THE FIRST POSTWAR DECADE: MAYA DEREN 442

Abstraction, Collage, and Personal Expression 444
Success and New Ambitions 450

BOX: THE SECOND POSTWAR DECADE: STAN BRAKHAGE 451

Underground and Expanded Cinema 453

References 458

Part Five THE CONTEMPORARY CINEMA SINCE THE 1960s 459

22 HOLLYWOOD'S FALL AND RISE:
1960-1980 461

The 1960s: The Film Industry in Recession 462

The Studios in Crisis 462 / Styles and Genres 463 / Modifying the Classical Studio Style 464 / Identifying the Audience 465

BOX: NEW PRODUCTION AND EXHIBITION TECHNOLOGIES 466

The New Hollywood: Late 1960s to Late 1970s 467

Toward an American Art Cinema 467 / Hollywood Strikes Gold 469

BOX: PERSONAL CINEMA: ALTMAN AND ALLEN 470

The Return of the Blockbuster 472

BOX: THE 1970s BIG THREE: COPPOLA, SPIELBERG, AND LUCAS 473

Hollywood Updated 476 / Scorsese as Synthesis 478

Opportunities for Independents 479

References 481

23 POLITICALLY CRITICAL CINEMA
OF THE 1960s AND 1970s 483

Political Filmmaking in the Third World 484

Revolutionary Aspirations 485 / Political Genres and Style 485 / Latin America 486

BOX: TWO REVOLUTIONARY FILMS: *MEMORIES OF UNDERDEVELOPMENT* AND *LUCÍA* 490

Black African Cinema 496 / China: Cinema and the Cultural Revolution 498

Political Filmmaking in the First and Second Worlds 500

Eastern Europe and the USSR 500 / Political Cinema in the West 504

BOX: FILM ACTIVITIES DURING THE MAY EVENTS IN PARIS 505

BOX: BRECHT AND POLITICAL MODERNISM 509

References 522

24 DOCUMENTARY AND EXPERIMENTAL
FILM SINCE THE LATE 1960s 524

Documentary Cinema 525

Direct Cinema and Its Legacy 525

BOX: FREDERICK WISEMAN AND THE TRADITION OF DIRECT CINEMA 526

Synthesizing Documentary Techniques 528 / Questioning Documentary Actuality 530 / Documenting Upheavals and Injustice 532 / Theatrical Documentary in the Age of Video and the Internet 534

BOX: FACTS, TRUTH, AND ATTITUDE: MICHAEL MOORE AND ERROL MORRIS 535

Structural Film and After 538

Structural Film 538 / Reactions to Structural Film: The Return of Narrative 543 / New Mergers 549

BOX: CUTTING THE TIE TO PHOTOGRAPHY: ANIMATED DOCUMENTARY 550

Film, Video, and Entry into the Museum 552

References 554

25 NEW CINEMAS AND NEW DEVELOPMENTS:
EUROPE AND THE USSR SINCE THE
1970s 556

Western Europe 557

Crisis in the Industry 557

BOX: TELEVISION AND AARDMAN ANIMATIONS 559

National Traditions and International Trends 560

BOX: DURAS, VON TROTTA, AND THE EUROPEAN ART CINEMA 569

The Arresting Image 571

Eastern Europe and the USSR	575	India: Mass Output and Art Cinema	613
<i>Eastern Europe: From Reform to Revolution</i> 575		<i>Alternatives to the Mainstream</i> 613 / <i>Coproductions and Satellite TV</i> 615 / <i>Popular Cinema Changes with the Times</i> 616 / <i>Indian Cinema on the Global Stage</i> 618	
BOX: ART CINEMA: SLOWING DOWN AND JUMPING AROUND	576	References	619
BOX: ROMANIA: A NEWER WAVE	582		
<i>From the USSR to the CIS</i> 582		27 CINEMA RISING: PACIFIC ASIA AND OCEANIA SINCE 1970	620
References	589	Australia and New Zealand	621
26 A DEVELOPING WORLD: CONTINENTAL AND SUBCONTINENTAL CINEMAS SINCE 1970	590	<i>Australia</i> 621 / <i>New Zealand</i> 624	
New Cinemas, New Audiences	591	New Cinemas in East Asia	625
African Cinema	591	<i>Thailand</i> 626 / <i>The Philippines</i> 627 / <i>Taiwan</i> 628	
<i>North Africa</i> 592 / <i>Sub-Saharan Africa</i> 593 / <i>The 1990s and Beyond</i> 594		BOX: EDWARD YANG AND HOU HSIAO-HSIEN	630
Filmmaking in the Middle East	597	Japan	632
<i>Israel and Palestine</i> 597 / <i>Egypt</i> 598 / <i>Turkey</i> 599 / <i>Iran: Revolution, Renaissance, and Retreat</i> 600 / <i>Countries in Conflict</i> 602		<i>Independent Filmmaking: Two Generations</i> 632	
South America and Mexico: Interrupted Reforms and Partnerships with Hollywood	603	BOX: THE POPULAR ARTISTRY OF HAYAO MIYAZAKI	636
<i>Brazil</i> 604		Hong Kong	637
BOX: LATIN AMERICAN LITERATURE AND CINEMA	605	South Korea	642
<i>Argentina</i> 607 / <i>Chile and Elsewhere</i> 608 / <i>Mexico</i> 609 / <i>Cuba, Industry in Isolation</i> 611		China: The Great Success Story	645
		<i>Economic Reforms and the Fifth Generation</i> 645 / <i>The Sixth Generation and Illegal Films</i> 646 / <i>The Cinema and "Market Socialism"</i> 647 / <i>The Dragon Grows Stronger</i> 649	
		References	651

Part Six CINEMA IN THE AGE OF NEW MEDIA 652

28 AMERICAN CINEMA AND THE ENTERTAINMENT ECONOMY: THE 1980s AND AFTER	653	BOX: DISNEY WORLD GETS BIGGER	660
Hollywood, Cable Television, and Home Video	654	<i>The Bottom Line</i> 661 / <i>Multiplexing and Megaplexing: The New Face of Exhibition</i> 663	
<i>Movies in the Home</i> 654		Artistic Trends	664
Concentration and Consolidation in the Film Industry	655	<i>Genres</i> 664 / <i>Narrative Form and Style</i> 667	
<i>The Majors Stay Major</i> 655 / <i>The Blockbuster Mentality</i> 658		BOX: INTENSIFIED CONTINUITY: A STYLE FOR THE VIDEO AGE	668

Directors: Midrange Options and Blockbuster Obligations 670

A New Age of Independent Cinema 675

Indie Aesthetics 676

**BOX: INDIE AUTEURS: LOW-BUDGET
BRANDING 677**

Indies and the Industry 681

References 684

29 TOWARD A GLOBAL FILM CULTURE 686

Hollyworld? 687

The Media Conglomerates 688 / *Cooperation and
Cooptation* 688

BOX: JURASSIC PARK, GLOBAL FILM 689

Multiplexing the Planet 690

**Regional Alliances, Media Empires, and the
New International Film 691**

Europe and Asia Try to Compete 691 / *Media Empires, West
and East* 691 / *Global Films from Outside Hollywood?* 693

BOX: BACK TO BASICS: DOGME 95 694

Diasporic Cinema 696

The Festival Circuit 697

Festivals and the Global Film Business 698

Video Piracy: An Alternative Distribution System 699

Fan Subcultures: Appropriating the Movies 700

References 702

**30 DIGITAL TECHNOLOGY
AND THE CINEMA 703**

Digital Tools: Piece by Piece 704

Preproduction 704 / *Postproduction* 705 / *Shooting in Digital:
Experiments on the Margins* 706 / *Digital Tools for 35mm
Shooting* 707 / *Publicity and Marketing* 707

Digital Convergence: Putting the Pieces together 709

The Digital Cinema Initiative 709 / *Theaters Go
Digital* 709 / *Promoting Digital Production: Early Adopters and
Film Diehards* 710 / *Effects on Film Form and Style* 711

**BOX: DIGITAL ANIMATION: BORDERLINE
BECOMES MAINSTREAM 712**

Digital Distribution 715

**BOX: DIRECTING DIGITAL: DAVID FINCHER AND
JEAN-LUC GODARD 716**

DVD: Sales and Rental 718 / *Online Distribution: Downloads
and Streaming* 718 / *Digital Distribution to Theaters* 719

New Media and the Future of Film 720

The Internet 720 / *Video games* 720 / *Virtual and Augmented
Reality* 722

References 723

Glossary 724

Index 730

ABOUT THE AUTHORS

Kristin Thompson and David Bordwell are married and live in Madison, Wisconsin.

Kristin Thompson is an Honorary Fellow in the Department of Communication Arts at the University of Wisconsin–Madison. She holds a master’s degree in film from the University of Iowa and a doctorate in film from the University of Wisconsin–Madison. She has published *Eisenstein’s Ivan the Terrible* (Princeton University Press, 1981), *Exporting Entertainment: America’s Place in World Film Market, 1901–1934* (British Film Institute, 1985), *Breaking the Glass Armor: Neoformalist Film Analysis* (Princeton University Press, 1988), *Wooster Proposes, Jeeves Disposes; or, Le Mot Juste* (James H. Heinemann, 1992), a study of P. G. Wodehouse, *Storytelling in the New Hollywood: Understanding Classical Narrative Technique* (Harvard University Press, 1999), *Storytelling in Film and Television* (Harvard University Press, 2003), *Herr Lubitsch Goes to Hollywood: German and American Film after World War I* (Amsterdam University Press, 2005), and *The Frodo Franchise: The Lord of the Rings and Modern Hollywood* (University of California Press, 2007). She is also an amateur Egyptologist and since 2001 a member of an expedition to Egypt.

David Bordwell is Jacques Ledoux Professor Emeritus of Film Studies in the Department of Communication Arts at the University of Wisconsin–Madison. He also holds a Hildale Professorship in the Humanities. He completed a master’s degree and a doctorate in film at the University of Iowa. His books include *The Films of Carl-Theodor Dreyer* (University of California Press, 1981), *Narration in the Fiction Film* (University of Wisconsin Press, 1985), *Ozu and the Poetics of Cinema* (Princeton University Press, 1988), *Making Meaning: Inference and Rhetoric in the Interpretation of Cinema* (Harvard University Press, 1989), *The Cinema of Eisenstein* (Harvard University Press, 1993), *On the History of Film Style* (Harvard University Press, 1997), *Planet Hong Kong: Popular Cinema and the Art of Entertainment* (Harvard University Press, 2000; 2nd ed., Irvington Way Institute Press, 2011), *Figures Traced in Light: On Cinematic Staging* (University of California Press, 2005), *The Way Hollywood Tells It: Story and Style in Modern Movies* (University of California Press, 2006), *Poetics of Cinema* (Routledge, 2007), *Pandora’s Digital Box: Films, Files, and the Future of Movies* (Irvington Way Institute Press, 2012), *The Rhapsodes: How 1940s Critics Changed American Film Culture* (University of Chicago Press, 2016), and *Reinventing Hollywood: How 1940s Filmmakers Changed Movie Storytelling* (University of Chicago Press, 2017).

The authors have previously collaborated on *Film Art: An Introduction* (McGraw-Hill, 11th ed., 2017, with Jeff Smith), *Minding Movies: Observations on the Art, Craft, and Business of Filmmaking* (University of Chicago Press, 2011), *Christopher Nolan: A Labyrinth of Linkages* (Irvington Way Institute Press, 2013), and, with Janet Staiger, on *The Classical Hollywood Cinema: Film Style and Mode of Production to 1960* (Columbia University Press, 1985). With Jeff Smith, the authors regularly contribute video introductions to films on the Criterion Channel of FilmStruck.

For their weblog and other online information, visit www.davidbordwell.net.



PREFACE TO THE FOURTH EDITION

Around the world, at any instant, millions of people are watching movies. They watch mainstream entertainment, serious “art films,” documentaries, cartoons, experimental films, educational shorts. They sit in air-conditioned theaters, in village squares, in art museums, in college classrooms, in their homes before a television screen, in coffee shops before a computer monitor or cell-phone screen. The world’s movie theaters sell 8 billion tickets each year. With the availability of films on video—whether broadcast, fed from cable or satellites or the Internet, or played back from disc or digital file—the audience has multiplied far beyond that.

Nobody needs to be convinced that film has been one of the most influential media of the past hundred years. Not only can you recall your most exciting or tearful moments at the movies, you can also probably remember moments in ordinary life when you tried to be as graceful, as selfless, as tough, or as compassionate as those larger-than-life figures on the screen. The way we dress and cut our hair, the way we talk and act, the things we believe or doubt—all these aspects of our lives are shaped by films. Films also provide us with powerful artistic experiences, insights into diverse cultures, and new ways of thinking.

In this book, we introduce the history of film as it is presently conceived, written, and taught by its most accomplished scholars. *Film History: An Introduction* is not, however, a distillation of everything that is known about film history. Researchers are fond of saying that there is no film *history*, only film *histories*. This partly means that there can be no single survey that puts all known facts into place. The history of avant-garde film does not match neatly up with the history of color technology or the development of the Western or the life of Alfred Hitchcock. For this reason, the enterprise we call “writing

film history” is a big tent housing people who work from various perspectives and with different interests and purposes.

So there is no Big Story of Film History that will list, describe, and explain everything that took place. We think that writing film history involves asking a series of *questions* and searching for *evidence* in order to answer them in the course of an *argument*. When historians focus on different questions, they select different evidence and formulate different explanations. For example, the historian who wants to know how European cinema developed in the Cold War will not pay much attention to why Marilyn Monroe had career problems near the end of her life. For this reason, historians create not a single, infinitely extended history but a diverse set of specific historical arguments.

Three Questions

In writing this book, we have focused on three key questions.

1. *How have uses of the film medium changed or become normalized over time?* Within “uses of the medium,” we include matters of film form: the overall organization of the film. Often this involves telling a story, but a film’s overall form might also be based on an argument or an abstract pattern. “Uses of the medium” also include matters of film style, the patterned uses of film techniques: mise-en-scène (staging, lighting, setting, and costume); camerawork; editing; and sound. In addition, any balanced conception of how the medium has been used must also consider film modes (documentary, avant-garde, animation) and genres (such as Westerns, thrillers, musicals). So, we also examine these phenomena. All such matters are central to most college courses in film history.

A major purpose of *Film History: An Introduction* is to survey the uses of the medium in different times and places. Sometimes we dwell on the creation of stable norms of form and style, as when we examine how Hollywood standardized certain editing options in the first two decades of filmmaking. At other times, we examine how filmmakers have proposed innovations in form, technique, and genre.

2. *How have the conditions of the film industry—production, distribution, and exhibition—affected the uses of the medium?* Films are made within *modes of production*, habitual ways of organizing the labor and materials involved in creating a movie. Some modes of production are industrial. In these circumstances, companies make films as a business. The classic instance of industrial production is the *studio system*, in which firms are organized in order to make films for large audiences through a fairly detailed division of labor. Another sort of industrial production might be called the *artisanal*, or *one-off*, approach, in which a production company makes one film at a time. Other modes of production are less highly organized, involving small groups or individuals who make films for specific purposes. In any event, the ways in which films are made have had particular effects on the look and sound of the finished products.

So have the ways in which films are distributed and consumed. For example, the major technological innovations associated with the early 1950s—widescreen picture, stereophonic sound, increased use of color—were actually available decades earlier. Each could have been developed before the 1950s, but the US film industry had no pressing need to do so. Theater attendance was so high that spending money on new attractions would not have significantly increased profits. Only when attendance dropped in the late 1940s did producers and exhibitors feel compelled to introduce new technologies to lure audiences back into theaters. Exhibition in turn changed film styles and genres, with new approaches to staging and a trend toward more spectacle.

3. *How have international trends emerged in the uses of the film medium and in the film market?* In this book, we try to balance the consideration of important national contributions with a sense of how international and cross-cultural influences were operating. Many nations' audiences and film industries have been influenced by creators and films migrating across borders. Genres are vagabond as well. The Hollywood Western influenced the Japanese swordplay film and the Italian Western, genres that in turn influenced the Hong Kong kung-fu films of the 1970s; Hollywood films then began incorporating elements of the martial arts movie.

Just as important, the film industry itself is significantly transnational. At certain periods, circumstances closed off countries from the flow of films, but in general there has always been a global film market, and we understand it best by tracing trends across cultures and regions. We have paid particular attention to conditions that allowed people to see films made outside their own country.

Each of these *how* questions accompanies a great many *why* questions. For any event in the processes we focus on, we can ask what conditions caused it to turn out the way it did. Why, for instance, did early Soviet filmmakers undertake their explorations of disturbing, aggressive narrative? Why did Hollywood's studio system begin to fragment in the late 1940s? Why are more films produced now with international investment than in the 1930s or 1940s? Historians are keen to investigate causes and effects, as you will see in this text.

If film history is a generative, self-renewing activity, then we cannot simply offer a condensation of "all previous knowledge." We are, in a sense, casting what we find into a new form. Throughout the thirty years spent researching and writing and rewriting this book, we have come to believe that it offers a unique version of the shape of film history, both its overall contour and its specific detail.

Answering the Questions: Our Approach

We divide film history into five large periods: early cinema (to about 1919), the late silent era (1919–1929), the development of sound cinema (1926–1945), the period after World War II (1946–1960s), and the contemporary cinema (1960s to the present). These divisions are fairly conventional, and they have the advantage of capturing important developments in the areas that our questions address—form and style, the film industry, and international trends.

But our book differs significantly from most other surveys. For one thing, it is very comprehensive. Some books restrict themselves to the most famous films. This probably made sense in an era when access to films was more restricted. Today, however, people can obtain DVDs or stream files from all over the world, and our sense of film history has expanded enormously. As the field of film studies has grown, small countries and little-known films are now objects of intense research. A textbook should reflect our new vision of world cinema and introduce readers to great films that have been rediscovered.

For similar reasons, we have not confined ourselves just to live-action fiction films. Documentary and experimental cinema are important in their own right, as vehicles for innovations in form and style. In this text, we consider these modes from the earliest efforts to the recent

work of William Greaves, Wang Bing, Phil Solomon, and Christian Marclay.

Organization and Distinctive Features

Film History: An Introduction is comprehensive in another way. Most textbooks are organized as a chronological string of national cinema chapters. Each major producing country typically gets a single chapter summarizing its accomplishments across many years. Sometimes we also take this tack, usually when a country's contribution to a period is very significant. But a unique feature of our book is the way we try to relate developments in one nation to parallel developments elsewhere.

Why is this important? Cinema began as an international art, and for most of its history, it has functioned that way. Filmmakers in one country are often well aware of what their counterparts elsewhere are doing. And several national film industries are often responding to the same conditions at the same time. For example, during the 1930s, many countries were working to meet the challenge of making sound films. Today, filmmakers face shared problems of global distribution and digital convergence. To trace each country's cinematic history in isolation would miss the common features at work in a particular period.

As a result, most of our chapters compare developments across different national film traditions. Instead of devoting a single chapter to the French cinema of the 1960s, Chapter 20 situates the French New Wave within the emergence of New Waves and Young Cinemas around the world. Similarly, instead of treating major directors of the 1950s and 1960s such as Fellini and Bergman solely as individuals, Chapter 19 explains that they rose to prominence thanks to an international film culture driven by festivals, magazines, and a new idea of the filmmaker as a creative artist. Most chapters of our book use this comparative approach, because it helps answer our general question of how cinema has developed as an international art. By presenting broad patterns rather than isolated facts, the strategy also helps the reader make new connections.

A concern for this broader view informs another unique feature of our book. Filmmaking and the film industry operate within a broad social, economic, and political context. We cannot fill in all the details of that context, of course, but most chapters do point out this wider frame of reference. For example, the development of Soviet cinema, in both the silent period (Chapter 6) and the sound era (Chapters 9 and 18), cannot be understood outside the political imperatives at work in the USSR. Less obviously, the rebuilding of European cinema after World War II owes an enormous amount to the Marshall Plan, a new emphasis on central planning and

regional cooperation, and shifts in the world economy (Chapter 17). Our need to situate film history within broader trends is just as pressing in recent eras. What we call the "critical political cinema" of the 1960s (Chapter 23) developed in response to postcolonialism, the rise of a new generation, America's involvement in the Vietnamese civil war, and other wide-ranging conditions. Likewise, economic and cultural factors are at the center of our discussion of globalization (Chapter 29). Our treatment of digital convergence in Chapter 30 considers overarching technological changes from the 1990s into the 2010s.

Film History: An Introduction relies on another unusual feature. For illustrations, many textbooks are content to use photos that were taken on the set while the film is being shot. These production stills are often posed and give no flavor of what the film actually looks like. Instead, nearly all of our illustrations are taken from the films themselves. Collecting frame enlargements has obliged us to pursue elusive prints in film archives around the world, but the results are worth it, because we are able to study exactly what viewers see on the screen. Thanks to these images, we can enrich our historical argument and focus on a short sequence of images that is typical or innovative, as when we study 1910s techniques of precision staging versus continuity editing (Chapter 3), cutting patterns in Soviet montage cinema (Chapter 6), and typical Neorealist sequences in *Umberto D.* and *Open City* (Chapter 16). These moment-by-moment analyses bring important films alive for readers, who can step through video versions frame by frame.

Yet another distinctive feature of our text is that it rests on forty years of our research. Putting aside our two textbooks, we have published several books on cinema, many of them devoted to film history. *Film History: An Introduction* is deeply indebted to the work of many other scholars, but to a considerable extent it reflects the breadth and depth of our original research into silent film, the history of US, European, and Asian cinema, and contemporary film trends across the world. We have done research in many of the world's major film archives. We have written books on films and filmmakers from Germany, Russia, Japan, France, Denmark, China, and the United States. One of us has written a book on the historiography of film. *Film History: An Introduction* is the fruit of decades of watching films, studying them, and thinking about their relations to other arts, to culture, and to the larger world.

Changes in the New Edition

As film history develops, we not only confront new films and filmmakers, but we often reconsider the past. In most chapters, we have corrected errors and added

material reflecting recent research. For example, the exceptional 1910s director Albert Capellani was little known until new prints of his films became available for modern viewers in the 2000s. We have added a box discussing him as a contemporary of D. W. Griffith, and we trace how their contrasting styles added to the development of film art.

The major revisions in this fourth edition reflect our rethinking of post-1970 film history. Most of the changes introduce fresh information and ideas. Chapter 24 on documentary and experimental film now considers the imaginative use of animation in recent documentary films. Chapter 25 has added a box on the “free camera” and “contemplative cinema,” both strong trends in Western and Eastern European films.

The biggest changes have been made to the last five chapters. These changes reflect the fact that cinema continues to grow as a worldwide medium. Although American movies are the best known, other countries are becoming global players. The most obvious emerging industries are in India and China, but other countries are also finding their voices. As a result, Chapter 26 on continental and subcontinental cinemas devotes more space to cinema in Nigeria (the now-famous “Nollywood”), the alliances among Latin American countries, and India, which continues to show that a regional industry can become powerful industrially and artistically.

Chapter 27, “Cinema Rising: Pacific Asia and Oceania since 1970,” shifts to another epicenter of change. Since our previous edition, two regional powers have ascended: South Korea, replacing Hong Kong as a source of major genre and arthouse films; and mainland China, whose explosive economic expansion fueled the fastest-growing film industry in postwar history. All in all, this is a fascinating story.

Where does American cinema fit into all this? Part Six, “Cinema in the Age of Electronic Media,” opens with a consideration of this problem. Chapter 28 discusses how Hollywood adjusted to new forms of entertainment—notably cable television and home video. In this edition, we consider the new business model of blockbusters and franchises, and a box devoted to Disney shows its supremacy in those domains. To the third edition’s expanded coverage of independent US film, we have added discussion of that movement’s effects on Hollywood.

The book ends with two wide-ranging surveys of the contemporary film landscape. Chapter 29, “Toward a Global Film Culture,” updates our chapter on globalization, offering fresh information and ideas about Hollywood’s domination, regional responses to it, cinemas

of the diaspora, film festivals, piracy, and fan subcultures. All of these are treated as aspects of globalization, tying developments in film to wider economic and cultural patterns.

The final chapter, “Digital Technology and the Cinema,” introduced in the last edition, demanded a thorough reworking for this one. When our last edition appeared, a few filmmakers were shooting digitally, and virtually no theaters could project digitally. Netflix and other streaming companies were new players on the scene. But today digital technology has completely taken over production, distribution, and exhibition. We trace this process in many domains, from computer animation to 3D projection, from production methods to mobile distribution and Virtual Reality. We hope that our readers will recognize the current media landscape in the story we tell here.

But that story is not over, and it can be retold in many ways. We trust that teachers and students will go beyond what the book offers and explore film history on their own. To this end, we offer many supplements that try to tease you into byways we could not pursue in an already wide-ranging text.

First, we have prepared a broad background essay, “Doing Film History,” which is available online at www.davidbordwell.net. A version of this served as an introductory chapter in earlier editions of this book, and in order to expand the essay’s availability, we have moved it online. In addition, many of the bonus materials that appeared in earlier editions have migrated to McGraw-Hill’s website for this book, http://highered.mheducation.com/sites/0073514241/information_center_view0/index.html. There you will find bibliographies keyed to each chapter, as well as a bibliography for more general topics.

Just as important are the Notes and Queries sections, we had appended to chapters in earlier editions. Now those and new ones reside at http://highered.mheducation.com/sites/0073514241/information_center_view0/index.html, and we urge both teachers and students to consult them. The Notes and Queries discuss general issues of historical research as well as topics we find intriguing. (How did Japanese anime become so popular in the United States? Why do some Italian critics think that Neorealism never existed?) The advantage of moving the Notes and Queries online is that we can update them and add others as the need arises.

Finally, we invite everyone to visit our blog, “Observations on film art,” at www.davidbordwell.net/blog, which often considers historical topics relevant to the questions, evidence, and explanations we present in this book.

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*Kristin Thompson
David Bordwell
Madison, WI
October 2017*

The background features a large, stylized illustration of a film strip on the left and a camera lens on the right. Inside the lens, several acrobats are shown in various poses, suggesting early cinema. The overall aesthetic is that of a vintage book cover.

PART ONE

EARLY CINEMA

The medium of cinema appeared in the mid-1890s, an era when the United States was becoming one of the world's major colonialist powers. The Spanish-American War of 1898 resulted in the United States gaining control of Puerto Rico, the Philippines, Guam, Hawaii, and part of Samoa. The United States itself was still in the process of formation. Idaho, Montana, and North and South Dakota had become states in 1889, and Arizona and New Mexico would not enter the Union until 1912. During the late nineteenth century, railroad, oil, tobacco, and other industries were expanding rapidly, and, in 1890, the Sherman Antitrust Act was passed in an attempt to limit the growth of monopolies.

Owing to hard times in Southern and Eastern Europe, a new wave of immigrants arrived on American shores after 1890. Living mostly in ethnic communities within large cities, these non-English speakers would form a sizable audience for the silent cinema.

The first decade of the new century saw a progressivist impulse in America, under the presidency of Theodore Roosevelt. There were movements to give women the vote, to prohibit child labor, to enforce antitrust laws, and to institute regulations to protect consumers. This era was also one of virulent racism, scarred by many lynchings. African American progressives formed the National Association for the Advancement of Colored People in 1909.

American expansion came at a time when the major European powers had already established far-flung empires and were engaged in jockeying for further power in such unstable areas as the Balkan States and the decaying Ottoman Empire. Tensions over such maneuvering, as well as mutual distrust, especially between France and Germany, led to the outbreak of World War I in 1914. This conflict gradually drew countries from all over the globe into the fighting. Although many citizens wanted no involvement, the United States

entered the fray in 1917 and broke the stalemate that had developed, ultimately forcing Germany to surrender in 1918.

The global balance of power had shifted. Germany lost all of its colonies, and the United States emerged as the world's leading financial force. President Woodrow Wilson tried to expand progressivist principles on an international scale, proposing a League of Nations to foster world unity. The League, formed in 1919, helped build a spirit of international cooperation during the 1920s, but it proved too weak to prevent lingering tensions from eventually causing a second international conflict.

During the two decades before World War I, the cinema was invented and grew from a small amusement-arcade business to an international industry. Films began as brief moving views presented as novelties, and, by the mid-1910s, the lengthy narrative feature film became the basis for cinema programs.

The invention of the cinema was a lengthy process, involving engineers and entrepreneurs in several countries. Struggles among patent holders in the United States slowed the development of the industry there, while French companies quickly seized the lead in markets throughout the world (Chapter 1).

From 1905 on, a rapid expansion in demand for motion-picture entertainment in the United States led to the spread of small movie theaters called nickelodeons. This demand was fueled in part by the rising immigrant population and in part by the shorter work hours gained by the increasingly militant labor-union movement. Soon America

was far and away the world's largest market for films—a situation that would allow it to increase its selling power abroad as well.

During the period of the “nickelodeon boom,” the story film became the main type of fare offered on programs. Films made in France, Italy, Denmark, the United Kingdom, the United States, and elsewhere circulated widely around the world. Narrative traits and stylistic techniques changed rapidly as influences passed back and forth among countries. Movies grew longer, employed more editing, added explanatory intertitles, and featured a greater variety of camera distances. Adaptations from literature and lavish historical spectacles added prestige to the new art form (Chapter 2).

World War I had enormous effects on the cinema. The outbreak of hostilities triggered a severe cutback in French production, and the country lost its leading position in world markets. Italy soon encountered similar problems. The growing Hollywood film industry stepped in to fill the gap in supply, expanding its distribution system abroad. By the war's end, American films had an international grip that other countries would struggle, usually with limited success, to loosen.

During this era, filmmakers in many countries explored film form. Film editing grew subtle and complex; acting styles became varied; and directors exploited long takes, realistic decor, and camera movement. By the end of World War I, many of today's cinematic conventions had been established (Chapter 3).

CHAPTER 1



A Trip to the Moon

THE INVENTION AND EARLY YEARS OF THE CINEMA, 1880s–1904



The Big Swallow

The nineteenth century saw a vast proliferation of visual forms of popular culture. The industrial era offered ways of mass-producing lantern slides, books of photographs, and illustrated fiction. The middle and working classes of many countries could visit elaborate *dioramas*—painted backdrops with three-dimensional figures depicting famous historical events. Circuses, “freak shows,” amusement parks, and music halls provided other forms of inexpensive entertainment. In the United States, numerous dramatic troupes toured, performing in the theaters and opera houses that existed even in small towns.

Hauling entire theater productions from town to town, however, was expensive. Similarly, most people had to travel long distances to visit major dioramas or amusement parks. In the days before airplane travel, few could hope to see firsthand the exotic lands they glimpsed in static view in books of travel photographs or in their *stereoscopes*, handheld viewers that created three-dimensional effects by using oblong cards with two photographs printed side by side.

The cinema was to offer a cheaper, simpler way of providing entertainment to the masses. Filmmakers could record actors’ performances, which then could be shown to audiences around the world. Travelogues would bring moving images of far-flung places directly to spectators’ hometowns. Movies would become the most popular visual art form of the late Victorian age.

The cinema was invented during the 1890s. It appeared in the wake of the industrial revolution, as did the telephone (invented in 1876), the phonograph (invented in 1877), and the automobile (developed during the 1880s and 1890s). Like them, it was a technological device that became the basis of a large industry. It was also a new form of entertainment and a new artistic medium. During the first decade of the cinema’s existence, inventors worked to improve the machines for making and showing films. Filmmakers

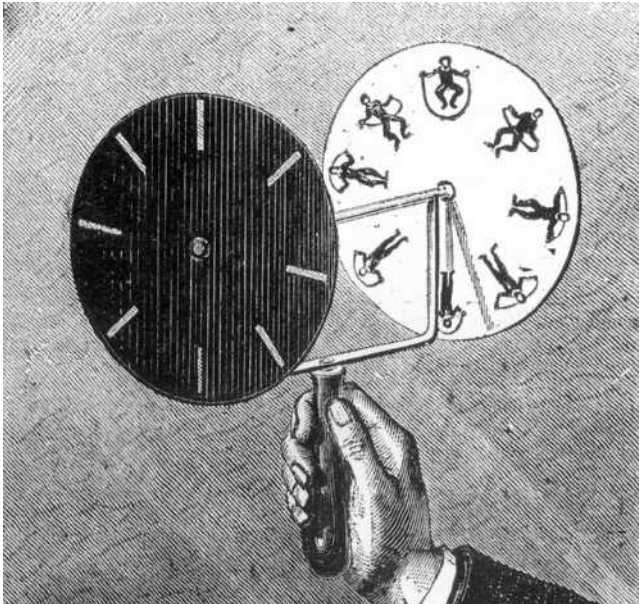
also had to explore what sorts of images they could record, and exhibitors had to figure out how to present those images to audiences.

THE INVENTION OF THE CINEMA

The cinema is a complicated medium, and before it could be invented, several technological requirements had to be met.

Preconditions for Motion Pictures

First, scientists had to realize that the human eye will perceive motion if a series of slightly different images is placed before it in rapid succession—minimally, around sixteen per second. During the nineteenth century, scientists explored this property of vision. Several optical toys were marketed that gave an illusion of movement by using a small number of drawings, each altered somewhat. In 1832, Belgian physicist Joseph Plateau and Austrian geometry professor Simon Stampfer independently created an optical device called the Phenakistoscope (1.1). The Zoetrope, invented in 1833, contained a series of drawings on a narrow strip of paper inside a revolving drum (1.2). The Zoetrope was widely sold after 1867, along with other optical toys. In these toys, the same action was repeated over and over.



1.1 A Phenakistoscope's spinning disc of figures gives the illusion of movement when the viewer looks through a slot in the stationary disc. (Source: George Eastman International Museum of Photography)

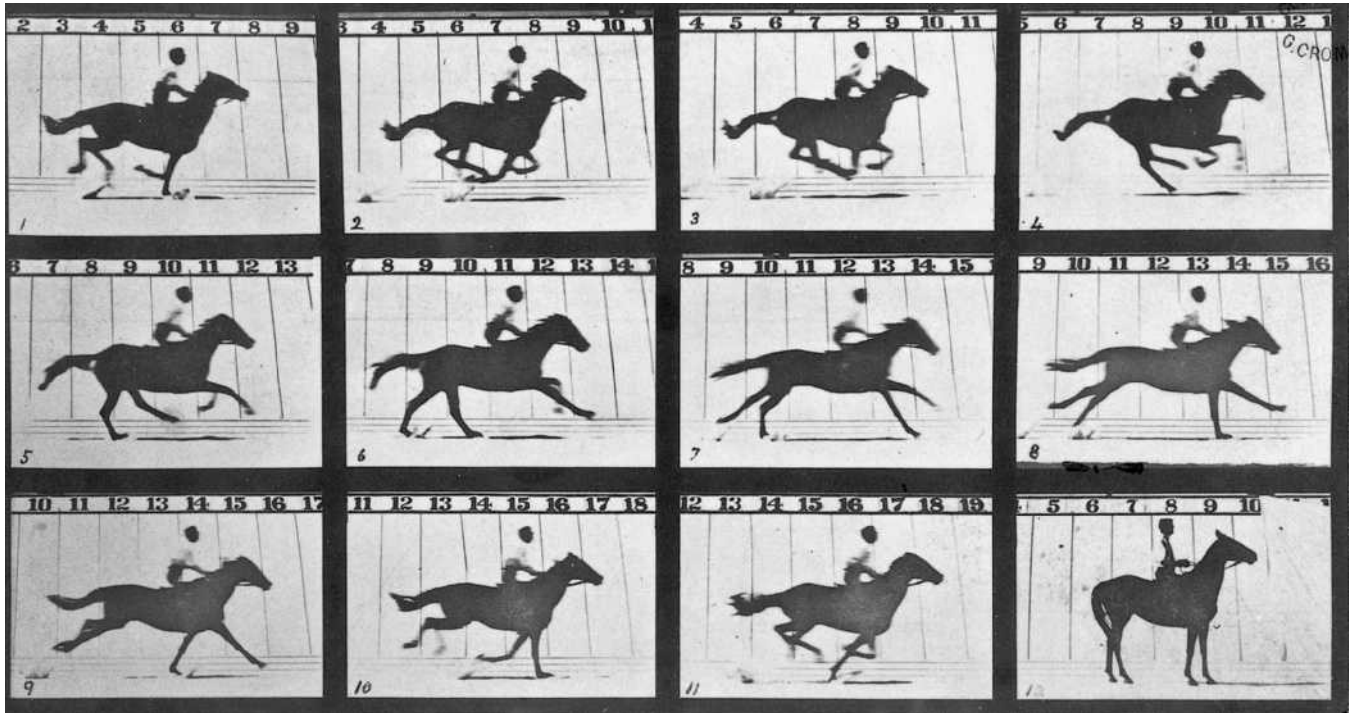
A second technological requirement for the cinema was the capacity to project a rapid series of images on a surface. Since the seventeenth century, entertainers and educators had been using “magic lanterns” to project glass lantern slides, and some could rapidly flash two or three changes of a figure’s position. But there had been no way to show large number of images fast enough to create a sustained illusion of movement.

If it had been easy to make a long series of drawings on some support, cinema would not have needed photography. Photography, however, was the simplest way to produce many lifelike images. The problem was that the illusion of movement needed at least sixteen photographs exposed per second. It took inventors several years to achieve such a short exposure time. The first still photograph was made on a glass plate in 1826 by Claude Niépce, but it required an exposure time of eight hours. For years, photographs were made on glass or metal, without the use of negatives, so only one copy of each image was possible; exposures took several minutes each. In 1839, Henry Fox Talbot introduced negatives made on paper. At about this same time, it became possible to print photographic images on glass lantern slides and project them. Not until 1878, however, did split-second exposure times become feasible. Rapid photography became the third precondition for cinema as we know it.

Fourth, the cinema would require that photographs be printed on a base flexible enough to be passed through a camera rapidly. Strips or discs of glass could be used, but only a short series of images could be registered on



1.2 Looking through the slots in a revolving Zoetrope, the viewer receives an impression of movement. (Source: George Eastman International Museum of Photography)



1.3 One of Muybridge's earliest motion studies, photographed on June 19, 1878. (Source: George Eastman International Museum of Photography)

them. In 1888, George Eastman devised a still camera that made photographs on rolls of sensitized paper. This camera, which he named the Kodak, simplified photography so that unskilled amateurs could take pictures. The next year Eastman introduced transparent celluloid roll film, creating a breakthrough in the move toward cinema. The film was intended for still cameras, but inventors soon used the same flexible material in designing machines to take and project motion pictures.

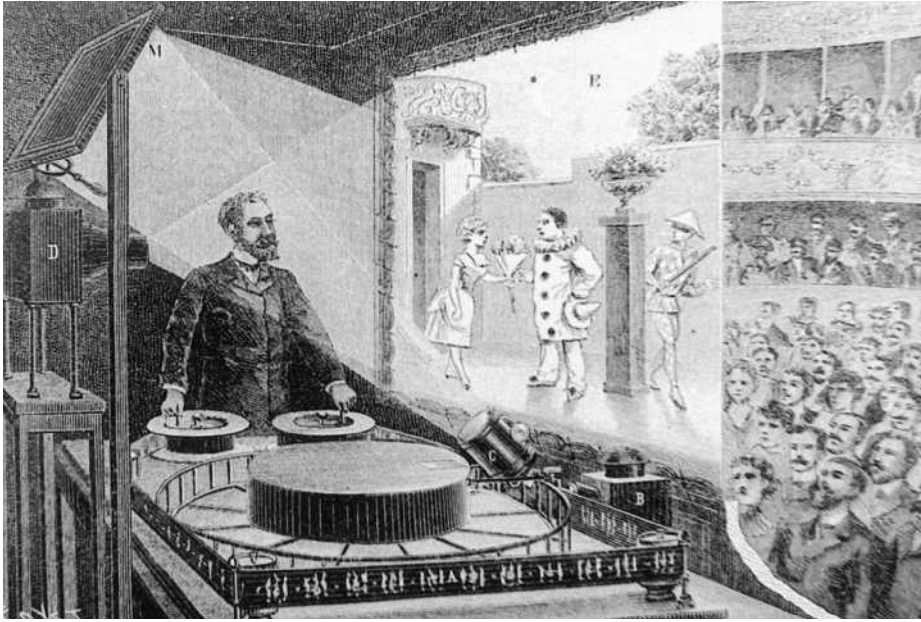
Fifth, and finally, experimenters needed to find a suitable intermittent mechanism for cameras and projectors. In the camera, the strip of film had to stop briefly while light entered through the lens and exposed each frame; a shutter then covered the film as another frame moved into place. Similarly, in the projector, each frame stopped for an instant in the aperture while a beam of light projected it onto a screen; again a shutter passed behind the lens while the filmstrip moved. At least sixteen frames had to slide into place, stop, and move away each second. (A strip of film sliding continuously past the gate would create a blur.) Fortunately, other inventions of the century also needed intermittent mechanisms to stop and start quickly. For example, the sewing machine (invented in 1846) advanced strips of fabric several times per second while a needle pierced them. Intermittent mechanisms usually consisted of a gear with slots or notches spaced around its edge.

By the 1890s, all the technical conditions for the cinema existed. But who would bring the elements together in a way that could be exploited on a wide basis?

Major Precursors of Motion Pictures

Some inventors made important contributions without creating moving photographic images. Several men were simply interested in analyzing motion. In 1878, ex-governor of California Leland Stanford asked photographer Eadweard Muybridge to find a way of photographing running horses to help study their gaits. Muybridge set up a row of twelve cameras, each making an exposure in one-thousandth of a second. The photos recorded one-half-second intervals of movement (1.3). Muybridge later made a lantern to project moving images of horses, but these were drawings copied from his photographs onto a revolving disc. Muybridge did not go on to invent motion pictures, but he made a major contribution to anatomical science through thousands of motion studies using his multiple-camera setup.

In 1882, inspired by Muybridge's work, French physiologist Étienne Jules Marey studied the flight of birds and other rapid animal movements by means of a photographic gun. Shaped like a rifle, it exposed twelve images around the edge of a circular glass plate that made a single revolution in one second. In 1888, Marey built a box-type



1.4 Using long flexible bands of drawings, Reynaud's Praxinoscope rear-projected cartoon figures onto a screen on which the scenery was painted. (Source: The collection of Donald Crafton)

camera that used an intermittent mechanism to expose a series of photographs on a strip of paper film at speeds of up to 120 frames per second. Marey was the first to combine flexible film stock and an intermittent mechanism in photographing motion. He was interested in analyzing movements rather than in reproducing them on a screen, but his work inspired other inventors. During this period, many other scientists used various devices to record and analyze motion.

A fascinating and isolated figure in the history of the invention of the cinema was Frenchman Émile Reynaud. In 1877, he had built an optical toy, the Projecting Praxinoscope. This was a spinning drum, rather like the Zoetrope, but one in which viewers saw the moving images in a series of mirrors rather than through slots. Around 1882, he devised a way of using mirrors and a lantern to project a brief series of drawings on a screen. In 1889, Reynaud exhibited a much larger version of the Praxinoscope. From 1892 on, he regularly gave public performances using long, broad strips of hand-painted frames (1.4). These were the first public exhibitions of moving images, though the effect on the screen was jerky and slow. The labor involved in making the bands meant that Reynaud's films could not easily be reproduced. Strips of photographs were more practical, and in 1895 Reynaud started using a camera to make his Praxinoscope films. By 1900, he was out of business, however, due to competition from other, simpler motion-picture projection systems. In despair, he destroyed his machines, though replicas have been constructed.

Another Frenchman came close to inventing the cinema as early as 1888—six years before the first commercial showings of moving photographs. That year, Louis Le Prince, working in England, was able to make some brief films, shot at about sixteen frames per second, using Kodak's recently introduced paper roll film. To be projected, however, the frames needed to be printed on a transparent strip; lacking flexible celluloid, Le Prince apparently was unable to devise a satisfactory projector. In 1890, while traveling in France, he disappeared, along with his valise of patent applications, creating a mystery that has never been solved. His camera was never exploited commercially and had virtually no influence on the subsequent invention of the cinema.

An International Process of Invention

We cannot attribute the invention of the cinema to a single source. There was no one moment when the cinema emerged. Rather, the technology of the motion picture came about through an accumulation of contributions, primarily from the United States, Germany, England, and France.

Edison, Dickson, and the Kinetoscope In 1888, Thomas Edison, already the successful inventor of the phonograph and the electric light bulb, decided to design machines for making and showing moving photographs. Much of the work was done by his assistant, W. K. L. Dickson. Since Edison's phonograph worked by recording sound on

cylinders, the pair tried fruitlessly to make rows of tiny photographs around similar cylinders. In 1889, Edison went to Paris and saw Marey's camera, which used strips of flexible film. Dickson then obtained some Eastman Kodak film stock

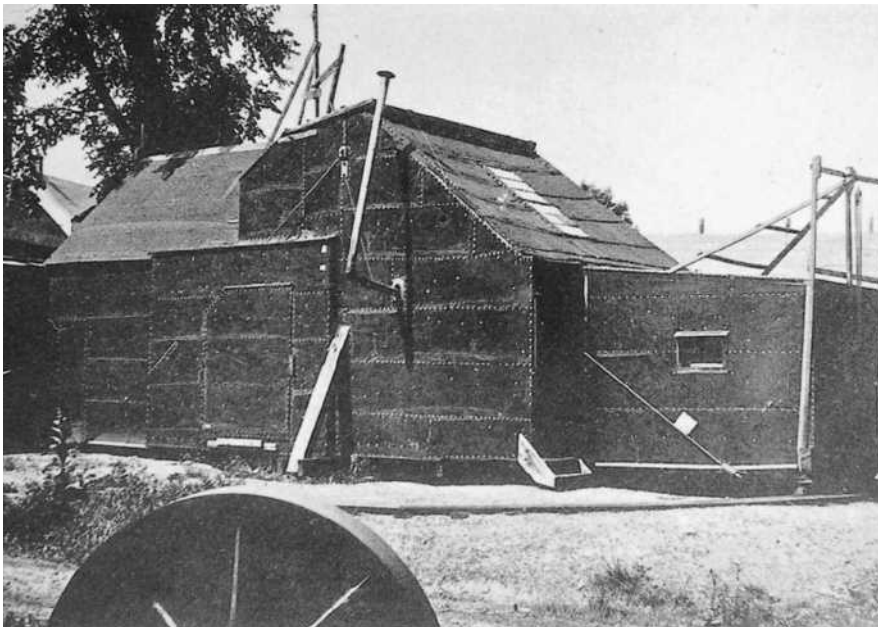


1.5 The Kinetoscope was a peephole device that ran the film around a series of rollers. Viewers activated it by putting a coin in a slot. (Source: George Eastman International Museum of Photography)

and began working on a new type of machine. By 1891, the Kinetograph camera and Kinetoscope viewing box (1.5) were ready to be patented and demonstrated. Dickson sliced sheets of Eastman film into strips 1 inch wide (roughly 35 millimeters), spliced them end to end, and punched four holes on either side of each frame so that toothed gears could pull the film through the camera and Kinetoscope. Dickson's early decisions influenced the entire history of the cinema; 35mm film stock with four perforations per frame remained the norm for over a hundred years. (Amazingly, an original Kinetoscope film can be shown on a modern projector.) Initially, however, the film was exposed at about forty-six frames per second—much faster than the average speed later adopted for silent filmmaking.

Before Edison and Dickson could exploit their machine commercially, they needed films. They built a small studio, called the *Black Maria*, on the grounds of Edison's New Jersey laboratory and were ready for production by January 1893 (1.6). The films lasted only twenty seconds or so—the longest run of film that the Kinetoscope could hold. Most films featured well-known sports figures, excerpts from noted vaudeville acts, or performances by dancers or acrobats (1.7). Annie Oakley displayed her riflery, and a bodybuilder flexed his muscles. A few Kinetoscope shorts were knockabout comic skits, forerunners of the story film.

Edison had exploited his phonograph by leasing it to special phonograph parlors, where the public paid a nickel



1.6 Edison's studio was named after the police paddy wagons, or *Black Marias*, that it resembled. The slanted portion of the roof opened to admit sunlight for filming, and the whole building revolved on a track to catch optimal sunlight. (Source: Wisconsin Center for Film and Theater Research, University of Wisconsin-Madison)



1.7 Amy Muller danced in the *Black Maria* on March 24, 1896. The black background and patch of sunlight from the opening in the roof were standard traits of Kinetoscope films.



1.8 A typical entertainment parlor, with phonographs (note the dangling earphones) at left and center and a row of Kinetoscopes at right.

(Source: George Eastman International Museum of Photography)

to hear sound through earphones. (Only in 1895 did phonographs become available for home use.) He did the same with the Kinetoscope. On April 14, 1894, the first Kinetoscope parlor opened in New York. Soon other parlors, both in the United States and abroad, exhibited the machines (1.8). For about two years the Kinetoscope was highly profitable, but it was eclipsed when other inventors, inspired by Edison's new device, found ways to project films on a screen.

European Contributions Another early system for taking and projecting films was invented by the Germans Max and Emil Skladanowsky. Their Bioscop held two strips of film, each 3½ inches wide, running side by side; frames of each were projected alternately. The Skladanowsky brothers showed a fifteen-minute program at a large vaudeville theater in Berlin on November 1, 1895—nearly two months before the famous Lumière screening at the Grand Café. The Bioscop system was too cumbersome, however, and the Skladanowskys eventually adopted the standard 35mm, single-strip film used by more influential inventors. The brothers toured Europe through 1897, but they did not establish a stable production company.

The Lumière brothers, Louis and Auguste, invented a projection system that helped make the cinema a commercially viable enterprise internationally. Their family company, Lumière Frères, based in Lyon, France, was the biggest European manufacturer of photographic plates. In 1894, a local Kinetoscope exhibitor asked them to

produce short films that would be cheaper than the ones sold by Edison. Soon they had designed an elegant little camera, the Cinématographe, which used 35mm film and an intermittent mechanism modeled on that of the sewing machine (1.9). The camera could serve as a printer when the positive copies were made. Then, mounted in front of



1.9 Unlike many other early cameras, the Lumière Cinématographe was small and portable. This 1930 photo shows Francis Doublier, one of the firm's representatives who toured the world showing and making films during the 1890s, posing with his Cinématographe. (Source: George Eastman International Museum of Photography)



1.10, left The Lumière brothers' first film, *Workers Leaving the Factory*, was a single shot made outside their photographic factory. It embodied the essential appeal of the first films: realistic movement of actual people.

1.11, right Birt Acres's *Rough Sea at Dover*, one of the earliest English films, showed large waves crashing against a seawall.

a magic lantern, it formed part of the projector as well. One important decision the Lumières made was to shoot their films at sixteen frames per second (rather than the forty-six frames per second used by Edison); this rate became the most commonly used international film speed for about twenty years. The first film made with this system was *Workers Leaving the Factory*, apparently shot in March 1895 (1.10). It was shown in public at a meeting of the Société d'Encouragement pour l'Industrie Nationale in Paris on March 22. Six further showings to scientific and commercial groups followed, including additional films shot by Louis.

On December 28, 1895, one of the most famous events in film history took place. The location was a room in the Grand Café in Paris. In those days, cafés were gathering spots where people sipped coffee, read newspapers, and were entertained by singers and other performers. That evening, fashionable patrons paid a franc to see a twenty-five minute program of ten films, about a minute each. Among the films shown were a close view of Auguste Lumière and his wife feeding their baby, a staged comic scene of a boy stepping on a hose to cause a puzzled gardener to squirt himself (later named *L'arroseur arrosé*, or "The Waterer Watered"), and a shot of the sea.

Although the first shows did moderate business, within weeks the Lumières were offering twenty shows a day, with long lines of spectators waiting to get in. They moved quickly to exploit this success, sending representatives all over the world to show films and make more of them.

At the same time that the Lumière brothers were developing their system, a parallel process of invention was going on in England. The Edison Kinetoscope had premiered in London in October 1894, and the parlor that displayed the machines did so well that its owners asked R. W. Paul, a producer of photographic equipment, to make some extra machines for it. For reasons that are still not clear, Edison had not patented the Kinetoscope outside the United States, so Paul was free to sell copies to

anyone who wanted them. Since Edison would supply films only to exhibitors who had leased his own machines, Paul also had to invent a camera and make films to go with his duplicate Kinetoscopes.

By March 1895, Paul and his partner, Birt Acres, had a functional camera, which they based partly on the one Marey had made seven years earlier for analyzing motion. Acres shot thirteen films during the first half of the year, but the partnership broke up. Paul went on improving the camera, aiming to serve the Kinetoscope market, while Acres concentrated on creating a projector. On January 14, 1896, Acres showed some of his films to the Royal Photographic Society. Among those was *Rough Sea at Dover* (1.11), which became one of the most popular first films.

Seeing such one-shot films of simple actions or landscapes today, we can hardly grasp how impressive they were to audiences who had never seen moving photographic images. A contemporary review of Acres's Royal Photographic Society program hints, however, at their appeal:

The most successful effect, and one which called forth rounds of applause from the usually placid members of the "Royal," was a reproduction of a number of breaking waves, which may be seen to roll in from the sea, curl over against a jetty, and break into clouds of snowy spray that seemed to start from the screen.¹

Acres gave other demonstrations, but he did not systematically exploit his projector and films.

Projected films were soon shown regularly in England, however. The Lumière brothers sent a representative who opened a successful run of the Cinématographe in London on February 20, 1896, about a month after Acres's first screening. Paul went on improving his camera and invented a projector, which he used in several theaters to show copies of the films Acres had shot the year before. Unlike other inventors, Paul sold his machines rather than