# wearable fitness tracking devices

wearable fitness tracking devices have revolutionized personal health and wellness management, empowering individuals to monitor their activity levels, sleep patterns, and physiological metrics with unprecedented ease. These sophisticated gadgets, ranging from smartwatches to dedicated fitness bands, offer a wealth of data that can inform lifestyle choices and drive progress towards health goals. This comprehensive article delves into the intricate world of wearable fitness trackers, exploring their diverse functionalities, the benefits they offer, key considerations for selection, and the future landscape of this rapidly evolving technology. We will examine how these devices contribute to a holistic approach to well-being and how users can leverage them effectively to achieve peak physical and mental health.

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# **Understanding Wearable Fitness Trackers**

Wearable fitness trackers are sophisticated electronic devices designed to be worn on the body, typically on the wrist, and are equipped with sensors and software to collect and analyze various health and activity data. Their primary purpose is to provide users with real-time insights into their physical performance, daily habits, and overall physiological state. By passively and actively gathering information, these devices aim to foster greater self-awareness and encourage healthier lifestyle choices. They have become an integral part of the modern health and fitness ecosystem, bridging the gap between individuals and actionable health intelligence.

The evolution of these devices has been remarkable, moving from simple step counters to highly advanced personal health companions. Early models focused on basic metrics like steps taken and distance covered. Today, however, sophisticated algorithms and a variety of sensors allow for a much deeper understanding of an individual's health. This includes detailed sleep stage analysis, heart rate variability, blood oxygen levels, and even stress monitoring. The integration with smartphone apps further enhances their utility, allowing for long-term data storage, detailed reporting, and personalized feedback.

# Core Features and Functionalities of Wearable Fitness Trackers

The core appeal of wearable fitness tracking devices lies in their ability to quantify aspects of our lives that were previously subjective or difficult to measure. These functionalities are designed to provide a comprehensive overview of physical activity, physiological responses, and recovery. Understanding these core features is crucial when evaluating different devices and their potential impact on your personal health journey.

#### **Activity Tracking**

At its most basic, activity tracking involves counting steps, calculating distance traveled, and estimating calories burned. Most devices utilize accelerometers and gyroscopes to detect movement patterns. More advanced trackers can differentiate between various types of activities, such as walking, running, cycling, and swimming, often automatically recognizing the exercise being performed. This detailed breakdown allows users to see precisely how much they are moving throughout the day and during specific workouts, providing a clear picture of their daily energy expenditure.

#### **Heart Rate Monitoring**

Continuous heart rate monitoring is a cornerstone feature of most modern wearable fitness trackers. Using optical sensors, these devices measure your pulse by detecting changes in blood volume under the skin. This data is invaluable for understanding exercise intensity, as it allows you to train within specific heart rate zones. Beyond workouts, resting heart rate and heart rate variability (HRV) can offer insights into cardiovascular health, stress levels, and recovery status. Tracking these metrics over time can reveal trends and potential issues that might otherwise go unnoticed.

#### **Sleep Tracking**

Understanding sleep quality is as important as understanding physical activity for overall well-being. Wearable trackers analyze sleep patterns by monitoring movement and heart rate during sleep hours. They can typically differentiate between light sleep, deep sleep, and REM sleep stages, providing users with a detailed breakdown of their nightly rest. Poor sleep can impact mood, cognitive function, and physical recovery, making this feature a critical component for holistic health monitoring. Some devices even offer sleep scores and personalized tips to improve sleep hygiene.

#### **GPS Integration**

For outdoor activities like running, cycling, and hiking, built-in GPS is a highly sought-after feature. GPS allows for accurate tracking of routes, distance, pace, and elevation gain without the need for a connected smartphone. This is particularly beneficial for individuals who prefer to train without their phone or for those who want to map out new trails and explore different environments. The detailed mapping provided by GPS data can also be motivating, allowing users to revisit and improve upon previous performance on specific routes.

#### **Workout Detection and Analysis**

Many wearable fitness trackers go beyond simple step counting to offer dedicated modes for a wide range of sports and exercises. These modes provide sport-specific metrics, such as lap times for swimming, cadence for running, or power output for cycling. Some devices are capable of automatically detecting when you start and stop a workout, eliminating the need for manual input. Post-workout analysis often includes detailed summaries, performance insights, and personalized recommendations for improvement based on the collected data.

## Health and Fitness Benefits of Using Wearable Trackers

The adoption of wearable fitness tracking devices has been driven by a clear understanding of the tangible benefits they offer to both physical and mental well-being. These devices act as personal coaches and data analysts, encouraging users to be more mindful of their health habits and to actively pursue fitness goals.

One of the most significant benefits is the increased awareness of personal activity levels. For many, simply seeing their daily step count or accumulated active minutes can be a powerful motivator to move more. This data can highlight sedentary periods and prompt users to incorporate more movement into their daily routines, contributing to a more active lifestyle and potentially reducing the risks associated with prolonged sitting.

Furthermore, wearable trackers provide valuable insights into cardiovascular health. By consistently monitoring heart rate, users can understand their resting heart rate trends, identify their target heart rate zones during exercise, and track their progress over time. This information can be used to optimize training, prevent overtraining, and identify potential irregularities that warrant medical attention. Heart rate variability (HRV) data, increasingly available on advanced trackers, offers a deeper look into the body's stress response and recovery capabilities.

Sleep tracking is another critical area where wearables offer substantial benefits. By understanding the duration and quality of sleep, individuals can identify patterns and make adjustments to improve their sleep hygiene. Better sleep is directly linked to improved mood, enhanced cognitive function, better athletic performance, and a stronger immune system. The ability to see how factors like latenight exercise or caffeine intake affect sleep can lead to positive behavioral changes.

Goal setting and progress tracking are also significantly enhanced. Wearable devices allow users to set personalized goals, whether it's a daily step target, a weekly exercise duration, or a weight loss objective. The data collected provides concrete evidence of progress (or lack thereof), allowing for adjustments to strategies and maintaining motivation. This quantitative feedback loop is essential for sustained commitment to fitness and health regimens.

Finally, the gamification and social features often integrated into wearable ecosystems can foster a sense of community and friendly competition. Challenges with friends, leaderboards, and achievement badges can add an element of fun and accountability, making the journey towards

better health more engaging and enjoyable. This social aspect can be particularly beneficial for individuals who thrive on external motivation and support.

# **Choosing the Right Wearable Fitness Tracking Device**

With a burgeoning market offering a vast array of wearable fitness tracking devices, selecting the one that best suits your individual needs and preferences can feel overwhelming. A thoughtful approach, considering specific functionalities, budget, and intended use, is essential for making an informed decision.

#### **Identify Your Primary Goals**

Before diving into specific models, it's crucial to define what you want to achieve with a wearable tracker. Are you primarily interested in tracking steps and basic activity for general health? Do you need advanced features for specific sports like running or cycling, such as GPS and pace tracking? Or are you more focused on holistic wellness, including sleep monitoring, stress tracking, and heart rate variability? Your primary goals will significantly narrow down the options and guide your search toward devices that excel in those areas.

### **Consider Key Features and Metrics**

Once your goals are clear, evaluate the features that are essential for achieving them. For general fitness, basic step counting, calorie estimation, and continuous heart rate monitoring might suffice. If you're a runner, GPS, pace tracking, and VO2 max estimation become important. For athletes focused on recovery, sleep stage analysis, HRV, and advanced metrics like training load might be prioritized. Look at the device's ability to track your preferred activities accurately and the depth of data analysis it provides.

#### **Evaluate Battery Life and Durability**

Battery life is a practical consideration that can significantly impact your user experience. Some devices require daily charging, while others can last for a week or more. If you plan to use features like continuous heart rate monitoring or GPS, which consume more power, you'll likely need a device with a more robust battery. Additionally, consider the durability and water resistance of the device, especially if you engage in water sports or work in environments where it might be exposed to moisture or impact.

#### Design, Comfort, and Display

Since you'll be wearing the device for extended periods, comfort and aesthetics are important. Devices come in various styles, from sleek, minimalist bands to more feature-rich smartwatches. Consider the materials, weight, and strap adjustability. The display type and size also matter; some users prefer bright, always-on displays, while others opt for simpler, more discreet screens. Ensure the interface is intuitive and easy to navigate.

#### **App Ecosystem and Integration**

The companion app is where you'll typically view, analyze, and manage your data. Explore the app's user interface, the quality of its reports, and its ability to sync with other health and fitness platforms you might already use (e.g., MyFitnessPal, Strava). A well-designed app can greatly enhance the value of the wearable device by providing actionable insights and a seamless user experience. Check for compatibility with your smartphone's operating system.

#### **Budget and Value**

Wearable fitness tracking devices range from budget-friendly options to high-end smartwatches. Determine your budget beforehand and look for devices that offer the best value for your money, balancing essential features with cost. Remember that the most expensive device isn't always the best fit; a more affordable option might perfectly meet your specific needs.

# Advanced Features and Emerging Trends in Wearable Technology

The field of wearable fitness tracking is in constant flux, with manufacturers continually pushing the boundaries of what these devices can do. Beyond the core functionalities, a growing number of advanced features are emerging, promising even deeper insights into our health and well-being. These advancements are transforming wearables from simple activity monitors into sophisticated personal health hubs.

#### **Blood Oxygen (SpO2) Monitoring**

One of the most significant recent additions is blood oxygen saturation (SpO2) monitoring. This feature, now common in many smartwatches and fitness trackers, measures the percentage of oxygen in your blood. It can provide valuable insights into respiratory function, especially during sleep, and can be indicative of conditions like sleep apnea. Athletes also use SpO2 data to understand how their bodies are adapting to altitude or intense training.

#### **ECG and Irregular Heart Rhythm Notifications**

Some high-end wearables now offer electrocardiogram (ECG) capabilities, allowing users to take ondemand ECG readings to detect signs of atrial fibrillation (AFib), a common type of irregular heartbeat. While not a substitute for medical diagnosis, these features can prompt users to seek professional medical advice if an anomaly is detected. Irregular heart rhythm notifications, which continuously monitor pulse for inconsistencies, are another important development in proactive cardiac health monitoring.

### **Body Temperature Sensing**

The inclusion of body temperature sensors in wearables is a growing trend. While often used for general wellness tracking, it can provide insights into ovulation cycles for women, detect potential illness, or indicate the body's response to environmental changes. These sensors are becoming more accurate and are expected to play a larger role in preventative health monitoring.

#### **Stress and Recovery Metrics**

Beyond basic heart rate, many advanced trackers now incorporate metrics like heart rate variability (HRV) and electrodermal activity (EDA) to assess stress levels and recovery status. By analyzing the fluctuations in heart rate and skin conductivity, these devices can provide a quantitative measure of how stressed your body is and how well it's recovering from workouts or daily challenges. This allows users to adjust their activity or seek relaxation techniques proactively.

#### Non-Invasive Glucose Monitoring (In Development)

One of the most anticipated future developments is non-invasive blood glucose monitoring. While still largely in the research and development phase, the prospect of wearables that can track blood sugar levels without needles would be revolutionary for individuals managing diabetes. Companies are exploring various technologies, and it's expected to be a significant trend in the coming years.

#### **Enhanced Sleep Analysis**

Sleep tracking continues to evolve with more detailed analysis of sleep stages, breathing patterns, and even snoring detection. Future wearables are likely to offer even more personalized insights into sleep quality and provide highly tailored recommendations for improving sleep hygiene, taking into account a wider range of physiological data.

### **Maximizing Your Wearable Fitness Tracking Experience**

Simply wearing a fitness tracker is only the first step; to truly benefit, users must actively engage with the data and integrate it into their lifestyle. Maximizing the value of your wearable device involves consistent use, thoughtful analysis, and a willingness to make informed adjustments to your habits.

Consistency is key. Wear your device as much as possible, including during sleep, to gather comprehensive data. The more consistent the data collection, the more accurate and reliable the insights will be. Understand that some devices are more accurate when worn snugly but comfortably on the wrist, ensuring good contact for optical sensors. Periodically check the device's fit and charging status to ensure uninterrupted data collection.

Regularly review your data. Don't just glance at your daily step count; take time to explore the detailed reports available in the companion app. Look for trends in your activity, sleep patterns, and heart rate over weeks and months. Identify what positively impacts your metrics and what might be detrimental. For instance, notice if longer sleep correlates with higher energy levels or if certain types of workouts lead to better recovery scores.

Set realistic and achievable goals. Use the data from your wearable to inform your goal setting. If you consistently hit 7,000 steps, aim for 8,000 rather than jumping to 15,000, which might lead to discouragement. Break down larger objectives into smaller, manageable milestones. The wearable can then help you track progress towards these incremental goals, providing regular boosts of motivation.

Listen to your body and use the data as a guide, not a dictator. While the metrics provided by your wearable are valuable, they should complement your own bodily sensations. If your tracker indicates you're well-rested, but you feel fatigued, pay attention to your body. Conversely, if you feel great but your data suggests overexertion, it might be a sign to ease up. The best approach is to use the data as an additional piece of information to inform your understanding of your body.

Leverage community and social features if they are available and beneficial for you. Sharing your progress with friends or participating in challenges can provide accountability and encouragement. However, if social features feel competitive or stressful, it's perfectly fine to disable them and focus on your personal journey. The goal is to find what works best for your motivation and well-being.

### The Future of Wearable Fitness Tracking

The trajectory of wearable fitness tracking devices points towards an increasingly integrated and predictive approach to personal health management. As sensor technology becomes more sophisticated and data analysis algorithms more advanced, these devices are poised to transition from mere trackers to proactive health advisors. The focus is shifting from simply reporting data to providing actionable insights that can prevent health issues before they arise.

One significant area of future development is the integration of more advanced biosensors. We can

expect to see widespread adoption of non-invasive blood glucose monitoring, continuous blood pressure tracking, and potentially even hydration and electrolyte level monitoring. These capabilities will offer an unprecedented level of insight into the body's internal state, empowering individuals with more comprehensive health data than ever before. This data will be critical for managing chronic conditions and optimizing daily well-being.

Artificial intelligence (AI) and machine learning will play an increasingly crucial role in interpreting the vast amounts of data collected by wearables. AI-powered analytics will be able to identify subtle patterns and correlations that might escape human observation, leading to highly personalized health recommendations. These systems will learn from individual data over time, providing predictive insights into potential health risks, optimal training schedules, and personalized nutritional guidance.

The form factor of wearables will also continue to evolve. While wrist-worn devices will remain popular, we may see a greater diversity of form factors, including smart rings, smart patches, smart clothing, and even discreet implants. This diversification will allow for more precise data collection from different parts of the body and cater to a wider range of user preferences and lifestyle needs. The aim will be to make health tracking as seamless and unobtrusive as possible.

Furthermore, the integration of wearables with the broader healthcare ecosystem is expected to accelerate. Data from these devices could eventually be shared with healthcare providers (with user consent), enabling more informed medical consultations and personalized treatment plans. This could lead to a more proactive and preventative healthcare model, where individuals are empowered to take greater control of their health with the support of advanced technology.

Ultimately, the future of wearable fitness tracking devices is about empowering individuals with deeper self-knowledge and enabling them to live healthier, more informed lives. As technology advances, these devices will become indispensable tools for understanding our bodies, managing our health, and optimizing our performance across all aspects of life.

#### **FAQ: Wearable Fitness Tracking Devices**

# Q: How accurate are wearable fitness trackers in counting steps?

A: Most modern wearable fitness trackers are highly accurate in counting steps, especially when worn correctly on the wrist. They use accelerometers and gyroscopes to detect movement. However, accuracy can be affected by factors like the type of activity (e.g., cycling might not register as steps), individual stride patterns, and how the device is worn. For general purposes, they provide a reliable estimate.

### Q: Can wearable fitness trackers detect medical conditions?

A: While wearable fitness trackers can provide valuable insights into physiological metrics like heart rate and rhythm, they are not medical devices and should not be used to diagnose or treat medical conditions. Features like ECG or irregular heart rhythm notifications can alert users to potential

issues, prompting them to seek professional medical advice. However, any health concerns should always be discussed with a qualified healthcare provider.

#### Q: How do wearable fitness trackers measure sleep quality?

A: Wearable fitness trackers typically measure sleep quality by monitoring movement and heart rate during sleep hours. They use this data to estimate different sleep stages, such as light sleep, deep sleep, and REM sleep. Some advanced devices may also track breathing patterns or wakefulness periods. The accuracy of sleep stage tracking can vary between devices.

# Q: What is heart rate variability (HRV) and why is it important for fitness tracking?

A: Heart rate variability (HRV) refers to the variation in the time interval between consecutive heartbeats. A higher HRV generally indicates a more resilient nervous system and better recovery, while a lower HRV can suggest stress, fatigue, or illness. For fitness tracking, HRV helps in assessing recovery status, optimizing training intensity, and understanding the body's overall readiness for exertion.

#### Q: Do I need a smartphone to use a wearable fitness tracker?

A: Most wearable fitness trackers require a smartphone for initial setup and to access detailed data analysis, historical trends, and personalized insights through their companion app. Some standalone trackers might offer basic on-device data display, but a smartphone significantly enhances the functionality and utility of the device by providing a platform for data management and synchronization.

#### Q: How often should I charge my wearable fitness tracker?

A: The charging frequency depends on the device and its features. Many basic fitness bands can last 5-7 days or even longer on a single charge. Smartwatches with larger displays, GPS, and continuous monitoring features typically require charging every 1-3 days. It's advisable to check the manufacturer's specifications for your specific device and to charge it when the battery level is low to ensure continuous data tracking.

#### Q: Can wearable fitness trackers help with weight loss?

A: Yes, wearable fitness trackers can be valuable tools for weight loss by increasing awareness of calorie expenditure and activity levels. They help set calorie goals, monitor burned calories, and encourage more physical activity. However, weight loss is a multifaceted process influenced by diet, exercise, and lifestyle. Trackers provide data to support these efforts, but they are not a magic solution on their own.

# Q: What is the difference between a fitness band and a smartwatch?

A: A fitness band is primarily designed for tracking physical activity, sleep, and heart rate, with a focus on health and wellness metrics. A smartwatch, while including fitness tracking capabilities, also offers a broader range of smart features such as receiving notifications, making calls, using apps, and contactless payments. Smartwatches generally have more advanced displays and processing power.

#### **Wearable Fitness Tracking Devices**

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wearable fitness tracking devices: Wearable/Personal Monitoring Devices Present to Future Gaetano D. Gargiulo, Ganesh R. Naik, 2021-10-26 This book discusses recent advances in wearable technologies and personal monitoring devices, covering topics such as skin contact-based wearables

(electrodes), non-contact wearables, the Internet of things (IoT), and signal processing for wearable devices. Although it chiefly focuses on wearable devices and provides comprehensive descriptions of all the core principles of personal monitoring devices, the book also features a section on devices that are embedded in smart appliances/furniture, e.g. chairs, which, despite their limitations, have taken the concept of unobtrusiveness to the next level. Wearable and personal devices are the key to precision medicine, and the medical community is finally exploring the opportunities offered by long-term monitoring of physiological parameters that are collected during day-to-day life without the bias imposed by the clinical environment. Such data offers a prime view of individuals' physical condition, as well as the efficacy of therapy and occurrence of events. Offering an in-depth analysis of the latest advances in smart and pervasive wearable devices, particularly those that are unobtrusive and invisible, and addressing topics not covered elsewhere, the book will appeal to medical practitioners and engineers alike.

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importance of taking care of one's health and wellness. Technological advances, coupled with advances in healthcare, has enabled the widespread growth of a new area called mobile health or mHealth that has completely revolutionized how people envision healthcare today. Just as smartphones and tablet computers are rapidly becoming the dominant consumer computer platforms, mHealth technology is emerging as an integral part of consumer health and wellness management regimes. The aim of this book is to inform readers about the this relatively modern technology, from its history and evolution to the current state-of-the-art research developments and the underlying challenges related to privacy and security issues. The book's intended audience includes individuals interested in learning about mHealth and its contemporary applications, from students to researchers and practitioners working in this field. Both undergraduate and graduate students enrolled in college-level healthcare courses will find this book to be an especially useful companion and will be able to discover and explore novel research directions that will further enrich the field.

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wearable fitness tracking devices: Wearable Technology: A Guide to the Revolution Charles Nehme, In the annals of technological evolution, few advancements have captured the imagination and transformed our daily lives as profoundly as wearable sensors. From the humble beginnings of wristwatches to the sophisticated devices of today, these tiny marvels have seamlessly integrated into our lives, offering unprecedented insights into our health, fitness, and surroundings. This book delves into the fascinating world of wearable sensors, exploring their history, underlying technologies, and diverse applications. We will examine the journey from early prototypes to the cutting-edge devices that now grace our wrists, fingers, and even our clothing. We will unravel the intricate mechanisms that power these sensors, from their ability to measure heart rate and track steps to their potential to monitor environmental conditions and detect diseases. Beyond their consumer appeal, wearable sensors are revolutionizing industries ranging from healthcare to manufacturing. They are empowering individuals to take control of their health, enabling businesses to optimize operations, and even reshaping the way we interact with the world around us. As we navigate the pages of this book, we will explore the challenges and opportunities that lie ahead. We will discuss the ethical implications of collecting and analyzing personal data, the importance of privacy and security, and the ongoing quest for even more advanced and comfortable wearable devices. I invite you to join me on this exciting journey as we uncover the incredible potential of wearable sensors and their transformative impact on our lives.

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provide a comprehensive presentation of m-Health This book introduces the concept of m-Health, first coined by Robert S. H. Istepanian in 2003. The evolution of m-Health since then—how it was transformed from an academic concept to a global healthcare technology phenomenon—is discussed. Afterwards the authors describe in detail the basics of the three enabling scientific technological elements of m-Health (sensors, computing, and communications), and how each of these key ingredients has evolved and matured over the last decade. The book concludes with detailed discussion of the future of m-Health and presents future directions to potentially shape and transform healthcare services in the coming decades. In addition, this book: Discusses the rapid evolution of m-Health in parallel with the maturing process of its enabling technologies, from bio-wearable sensors to the wireless and mobile communication technologies from IOT to 5G systems and beyond Includes clinical examples and current studies, particularly in acute and chronic disease management, to illustrate some of the relevant medical aspects and clinical applications of m-Health Describes current m-Health ecosystems and business models Covers successful applications and deployment examples of m-Health in various global health settings, particularly in developing countries

wearable fitness tracking devices: *Big Data Analytics for Smart and Connected Cities* Dey, Nilanjan, Tamane, Sharvari, 2018-09-07 To continue providing people with safe, comfortable, and affordable places to live, cities must incorporate techniques and technologies to bring them into the future. The integration of big data and interconnected technology, along with the increasing population, will lead to the necessary creation of smart cities. Big Data Analytics for Smart and Connected Cities is a pivotal reference source that provides vital research on the application of the integration of interconnected technologies and big data analytics into the creation of smart cities. While highlighting topics such as energy conservation, public transit planning, and performance measurement, this publication explores technology integration in urban environments as well as the methods of planning cities to implement these new technologies. This book is ideally designed for engineers, professionals, researchers, and technology developers seeking current research on technology implementation in urban settings.

wearable fitness tracking devices: The Busy Person's Fitness Plan: Short, Effective Workouts That Can Be Done At Home Or On The Go, Perfect For People With Packed Schedules Brian Smith, The Busy Person's Fitness Plan is a comprehensive guide designed for individuals with packed schedules who are seeking effective workouts that can be done at home or on the go. This book explores the importance of fitness and how it impacts overall health, emphasizing the need to set realistic goals. It provides strategies for creating a fitness routine and finding the motivation to stick to it. The book offers a wide range of guick workouts suitable for busy schedules, including HIIT and bodyweight exercises. It highlights the benefits of utilizing technology, such as fitness apps and wearable trackers, to enhance fitness routines. Additionally, it offers tips on making healthy nutrition a priority and overcoming common exercise barriers. Readers will learn how to tailor workouts to their preferences, incorporate mindfulness into their fitness practices, and maximize results with minimal equipment. The book also emphasizes the importance of consistency and persistence, providing guidance on maintaining a routine and recovering and restoring the body. Furthermore, it offers practical tips on incorporating fitness into daily life, setting realistic expectations, and finding support and accountability. It addresses common challenges, such as navigating fitness plateaus, and provides strategies for overcoming them. Overall, The Busy Person's Fitness Plan serves as a valuable resource for busy individuals looking to prioritize their health and achieve their fitness goals despite their hectic schedules.

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of the book, respectively dedicated to the foundations and techniques of the discipline.

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