

Sketchup User S Guide Guts Tech Home Ebook

sketchup user s guide guts tech home is a comprehensive phrase that encapsulates the essence of navigating SketchUp for home design and renovation projects, especially for users interested in the technical aspects and practical tips. Whether you're an aspiring architect, a DIY enthusiast, or a homeowner looking to visualize your dream space, understanding the fundamentals of SketchUp can significantly streamline your workflow. This guide aims to provide an in-depth overview of SketchUp user instructions, essential features, and practical tips to help you harness the full potential of this powerful 3D modeling tool for your home projects.

Introduction to SketchUp for Home Design

SketchUp is a versatile 3D modeling software widely used in architecture, interior design, and home renovation. Its user-friendly interface combined with robust features makes it accessible for beginners while still powerful enough for professionals.

Getting Started with SketchUp

Before diving into complex projects, it's important to understand the basics of navigating SketchUp and setting up your workspace.

Installing and Setting Up SketchUp

- Download the Correct Version: Choose between SketchUp Free (web-based), SketchUp Pro, or SketchUp Studio based on your needs.
- System Requirements: Ensure your computer meets the minimum specifications for smooth operation.
- License Activation: Follow the prompts to activate your license if using a paid version.

Understanding the Interface

- Toolbars: Familiarize yourself with essential tools like Select, Draw, Push/Pull, and Orbit.
- Menu Bar: Access features such as File, Edit, View, and Plugins.
- Drawing Area: The main workspace where your models come to life.
- Default Tray: Contains Layers, Components, Materials, and Styles for easy management.

Essential SketchUp Tools for Home Design

Mastering key tools is crucial for creating accurate and detailed home models.

Drawing Tools

- **Line Tool:** Draw straight lines to outline walls, floors, and other structural elements.
- **Rectangle and Circle Tools:** Create basic shapes for rooms and features.
- **Arc Tool:** Design curved features like archways or rounded countertops.

Modification Tools

- **Push/Pull Tool:** Extrude 2D shapes into 3D objects, essential for walls and furniture.
- **Move Tool:** Adjust the position of objects or components within your model.
- **Scale Tool:** Resize objects proportionally or non-uniformly.
- **Rotate Tool:** Turn objects around a selected axis for precise placement.

Viewing and Navigation Tools

- **Orbit Tool:** Rotate around your model to view from different angles.
- **Pan Tool:** Shift your viewpoint across the scene.
- **Zoom Tool:** Get closer or further from your model for detailed work.

Creating a Basic Home Model in SketchUp

Building a simple house model involves several steps, from planning to detailed modeling.

Step 1: Planning Your Design

- Sketch your floor plan on paper or use existing blueprints.
- Determine dimensions for rooms, doors, windows, and other features.

Step 2: Drawing the Floor Plan

- Use the Rectangle Tool to outline the perimeter of your house.
- Use the Push/Pull Tool to extrude the floor outline to the desired wall height.

- Create interior walls by drawing lines inside the perimeter and pushing them up.

Step 3: Adding Architectural Features

- Insert doors and windows by creating openings with the Push/Pull Tool or using pre-made components.
- Design roof structures by drawing polygons and extruding or using the Follow Me Tool for complex shapes.

Using Components and Materials

Organizing your model with components and applying materials enhances efficiency and realism.

Working with Components

- Components are reusable objects like furniture, fixtures, or doors.
- Create your own or import components from the 3D Warehouse.
- Editing a component updates all instances within your model automatically.

Applying Materials for Realism

- Materials include textures like wood, brick, paint, or flooring.
- Access materials from the Materials Tray and apply them to surfaces.
- Customize textures or import your own for unique finishes.

Advanced Tips for Guts Tech Home Optimization

To maximize your SketchUp workflow for home projects, consider these advanced techniques.

Layers and Scenes

- Use Layers to organize different elements (e.g., electrical, plumbing, furniture).
- Create Scenes to quickly switch between different views or project states.

Plugins and Extensions

- Enhance functionality with plugins like CleanUp3, Curviloft, or Sunset.
- Download extensions from the Extension Warehouse tailored for home design.

Rendering and Presentation

- Use rendering plugins like V-Ray or Enscape for photorealistic images.
- Create walkthroughs and animations to present your design effectively.

Exporting and Sharing Your Home Model

Once your design is complete, sharing your work is crucial.

Export Options

- Export as 2D images (JPEG, PNG) for presentations.
- Export as 3D models (OBJ, STL, DWG) for further editing or 3D printing.
- Create PDFs or animations to showcase your design.

Sharing Collaboratively

- Use cloud storage or email to share SketchUp files.
- Leverage SketchUp's cloud services for real-time collaboration.

Conclusion: Mastering SketchUp for Your Home Projects

The **sketchup user s guide guts tech home** is about understanding the core tools, features, and best practices to turn your home design ideas into detailed 3D models. Whether you're starting with simple sketches or developing complex architectural plans, mastering SketchUp can greatly improve your visualization and planning process. Remember to explore the extensive library of components and materials, utilize plugins for advanced features, and keep practicing to refine your skills. With patience and creativity, SketchUp becomes an invaluable tool for turning your home dreams into reality.

By following this guide, you'll be well-equipped to navigate SketchUp's interface, utilize its powerful features, and produce stunning home designs tailored to your needs. Happy modeling!

SketchUp User's Guide Guts Tech Home: A Comprehensive Breakdown for Enthusiasts and Professionals

When diving into the world of 3D modeling, especially within the realm of architecture, interior design, and DIY projects, SketchUp User's Guide Guts Tech Home becomes an invaluable resource. This guide unpacks the core features, workflows, and tips that help users—from beginners to seasoned professionals—maximize their use of SketchUp for home-related projects. Whether you're designing a new kitchen layout, visualizing renovations, or creating detailed models for clients, understanding the essentials of SketchUp's core functionalities is crucial. In this article, we'll explore the key aspects of the SketchUp user experience, delve into Guts Tech Home-specific workflows, and offer practical advice to elevate your modeling skills.

What is SketchUp and Why is It Popular?

Before diving into the guts of the user guide, it's important to understand what makes SketchUp a preferred choice for 3D modeling. Developed by Trimble Inc., SketchUp is renowned for its user-friendly interface, flexibility, and extensive plugin ecosystem. It's popular among architects, interior designers, hobbyists, and DIY enthusiasts because it strikes a balance between simplicity and powerful features.

Key reasons for SketchUp's popularity include:

- Intuitive interface: Easy to learn for newcomers.
- Rapid modeling capabilities: Build models quickly with push/pull tools.
- Extensive library: Access to 3D Warehouse with thousands of free models.
- Compatibility: Supports a wide range of file formats and plugins.
- Affordability: Offers free and professional versions suitable for different needs.

Understanding the Core Components of the SketchUp User Interface

A fundamental step in mastering SketchUp is familiarizing yourself with its user interface (UI). The UI is designed to be straightforward, allowing users to focus on modeling rather than wrestling with complex menus.

Main UI Elements:

- Toolbar: Contains essential tools like Select, Draw, Push/Pull, Eraser, and Orbit.
- Menu Bar: Offers access to file operations, editing, view options, and extensions.
- Default Tray: Houses panels like Entity Info, Materials, Components, Styles, and Layers.
- Drawing Area: The main workspace where models are created and manipulated.
- Status Bar: Displays prompts and information about current operations.

Tip: Customize your toolbar and tray for quick access to tools you frequently use, especially when working on Guts Tech Home projects that often require specific components.

Essential Tools for Guts Tech Home Projects

When working on tech-influenced home models or interior design projects, certain tools become indispensable.

Basic Modeling Tools:

- Select Tool: For selecting objects.
- Line and Rectangle Tools: For creating walls, floors, and structural elements.
- Push/Pull Tool: To extrude 2D shapes into 3D objects.
- Move, Rotate, Scale Tools: For positioning and resizing elements.
- Offset Tool: To create parallel lines or walls.

Advanced Tools:

- Groups and Components: To organize model parts and reuse elements efficiently.
- Materials Panel: To apply textures and finishes.
- Scenes: To save different views for presentations.
- Layers: For organizing complex models with multiple elements.

Developing Guts: Navigating the Technical Aspects

The phrase "Guts Tech Home" suggests a focus on the underlying technical intricacies of SketchUp models such as geometry management, component organization, and rendering techniques. Here's a deep dive into these core areas:

Geometry Management

- Keeping Models Clean: Use groups and components to prevent geometry from intersecting or overlapping unnecessarily.
- Avoiding N-gons and Internal Faces: These can cause rendering issues; ensure faces are properly oriented.
- Utilizing Outliner: Organize complex models by naming and grouping objects logically.

Components and Reusability

- Creating Components: Save repeated elements like furniture, appliances, or structural elements.
- Editing Components: Changes propagate across all instances, saving time.
- Component Libraries: Use or create libraries specific to Guts Tech Home designs for efficiency.

Layers and Visibility

- Organize Elements: Use layers to toggle visibility of electrical wiring, plumbing, or structural components.
- Best Practices: Keep layer management simple; overusing layers can become confusing.

Materials and Textures for Realistic Guts Tech Home Visuals

Applying the right materials enhances the realism of your model.

- Built-in Materials: Use SketchUp's default textures for wood, concrete, metal, etc.
- Custom Textures: Import high-quality images for specific finishes.
- Applying Materials: Use the Paint Bucket tool to assign materials to faces.
- Material Editing: Adjust scale, transparency, and color for better effects.

Lighting and Rendering Considerations

While SketchUp's basic rendering is simple, Guts Tech Home projects benefit from advanced visualization techniques.

- Natural Lighting: Adjust sunlight and shadows for realistic time-of-day effects.
- Artificial Lighting: Use plugins like V-Ray or Enscape for detailed lighting setups.
- Rendering: Create high-quality images for presentation or client approval.

Tips for Effective Modeling in Guts Tech Home Projects

To streamline your workflow, consider these practical tips:

- Start with a Floor Plan: Use 2D sketches as a base for 3D modeling.
- Use Guides and Axes: Keep geometry aligned and precise.
- Leverage Plugins: Extensions like ?1001bit Tools? or ?Skalp? can simplify complex tasks.
- Regularly Save and Version: Prevent data loss and track progress.

- Utilize Shortcuts: Speed up tasks by customizing keyboard shortcuts.

Exporting and Sharing Your Models

Once your model is complete, sharing it effectively is key.

- Export Formats: Save as STL, OBJ, DWG, or PDF for different purposes.
- Create Walkthroughs: Use scenes to generate animated tours.
- Publish Online: Upload to 3D Warehouse or embed on websites.
- Print 3D Models: Prepare files for 3D printing if needed.

Final Thoughts: Mastering the Guts of SketchUp for Tech-Driven Home Design

Understanding the SketchUp User's Guide Guts Tech Home entails not only mastering the basic tools but also grasping the underlying principles of efficient model organization, geometry management, and rendering techniques. Whether you're designing a smart home with integrated tech systems or visualizing complex structural elements, a solid grasp of these core concepts will elevate your work from simple visualizations to professional-grade presentations.

Investing time in learning the intricacies of components, layers, and materials ensures your models are accurate, manageable, and visually compelling. Coupled with the right plugins and rendering techniques, you can produce highly realistic visualizations that communicate your vision clearly.

In conclusion, mastering the guts of SketchUp for Guts Tech Home projects is about building a strong foundation of technical knowledge, organized workflows, and creative visualization. With this comprehensive understanding, you're well on your way to transforming ideas into stunning, precise 3D models that can impress clients, inform construction, or inspire your next DIY project.

Question What are the key features highlighted in the SketchUp User's Guide for GUTS Tech Home projects? The SketchUp User's Guide for GUTS Tech Home projects emphasizes intuitive 3D modeling, precise measurements, component libraries, and tools for detailed architectural design to help users efficiently create and visualize their home projects. **How can I optimize my workflow in SketchUp for GUTS Tech Home designs?** To optimize your workflow, utilize keyboard shortcuts, organize components and layers effectively, take advantage of templates, and leverage extensions or plugins that streamline repetitive tasks specific to home design. **Are there specific tutorials in the SketchUp User's Guide tailored for GUTS Tech Home construction?** Yes, the guide includes step-by-step tutorials focused on modeling home layouts, customizing interiors, and integrating GUTS Tech-specific components to assist users in creating accurate and detailed home designs. **What are some common troubleshooting tips for users working on GUTS Tech Home projects in SketchUp?** Common tips include checking for software updates, managing component

conflicts, ensuring accurate measurements, and consulting the troubleshooting section of the guide for resolving issues like rendering errors or slow performance. How does the SketchUp User's Guide recommend integrating GUTS Tech Home components into my models? The guide suggests importing GUTS Tech components from the component library, organizing them into collections, and using the 'Place' tool for accurate placement within your model to ensure seamless integration. Where can I find additional resources or community support for SketchUp users working on GUTS Tech Home projects? Additional resources include online forums, official SketchUp tutorials, GUTS Tech community groups, and user groups where you can share models, ask questions, and get tips from experienced users.

Related keywords: SketchUp, user guide, tech tutorials, home design, 3D modeling, SketchUp tips, user manual, interior design, architecture software, beginner guide

GUTS ENGLISH EDITION

guts english edition has become a significant topic of interest among manga enthusiasts and language learners alike. This edition of the renowned manga series "Guts" offers a unique experience, blending compelling storytelling with accessible language for readers worldwide. Whether you're a long-time fan eager to explore the latest release or a newcomer curious about the story and its impact, understanding the specifics of the Guts English Edition is essential. In this comprehensive guide, we'll delve into the origins of the series, what makes the English edition special, and how it can enhance your reading experience.

Understanding the "Guts" Series

What Is "Guts"?

"Guts" is a popular manga series that has captivated readers with its intense action, deep character development, and thought-provoking themes. Created by a talented manga artist, the story centers around a protagonist who faces extraordinary challenges, symbolizing resilience, courage, and the human spirit's indomitable will. The series is praised for its detailed artwork, compelling plot twists, and emotional depth.

The Themes and Storyline

- **Resilience and Overcoming Adversity:** The protagonist's journey often highlights overcoming despair and physical challenges.

- Moral Dilemmas: The series explores complex moral questions that prompt readers to think critically.
- Friendship and Loyalty: Relationships among characters add emotional layers to the narrative.
- Dark Fantasy Setting: The manga's universe combines myth, magic, and brutal combat scenes.

The Significance of the English Edition

Why Was the English Edition Created?

The original "Guts" manga was primarily published in Japan, with the story reaching a global audience through translations. The English edition was developed to:

- Make the series accessible to non-Japanese speakers
- Maintain the integrity of the original artwork and story
- Reach a broader international readership
- Provide accurate translations that capture cultural nuances

Differences Between the Original and English Edition

While the core story remains the same, several notable aspects distinguish the English edition:

- Translation Quality: High-quality translations aim to preserve the tone, humor, and emotional depth.
- Localization: Some cultural references are adapted for better understanding by Western audiences.
- Design and Formatting: The English edition often features left-to-right reading format, especially for digital versions, differing from traditional Japanese right-to-left manga layouts.
- Additional Content: Certain editions may include bonus materials such as author notes, concept art, or behind-the-scenes insights.

Where to Find the Guts English Edition

Official Publishers and Platforms

The Guts English Edition is available through several legitimate sources, ensuring quality and supporting the creators:

- VIZ Media: One of the leading publishers of manga in English, often releasing the series in print

and digital formats.

- Kodansha Comics: Known for publishing many popular manga titles, including "Guts."
- Digital Platforms:
 - ComiXology
 - Amazon Kindle
 - Manga Plus
 - Crunchyroll Manga

Physical vs. Digital Copies

- Physical Copies:
 - Usually come in hardcover or paperback editions
 - Ideal for collectors
 - Available at bookstores or specialty comic shops
- Digital Copies:
 - Offer instant access and portability
 - Often more affordable
 - Include features like adjustable font size and night mode

The Benefits of Reading the Guts English Edition

Enhanced Accessibility

For non-Japanese speakers, the English edition removes language barriers, allowing a more immersive experience without needing to learn Japanese.

Better Cultural Understanding

Localization efforts help readers grasp cultural references, idioms, and humor, enriching their overall understanding of the story.

Supporting the Creators

Purchasing official editions ensures that creators receive proper compensation, encouraging the continuation of the series.

Learning Opportunities

For language learners, reading manga in English can be a stepping stone toward understanding Japanese, especially if paired with Japanese editions for comparison.

How to Get the Most Out of Your Guts English Edition Experience

Read in a Comfortable Environment

Find a quiet space where you can focus on the story and appreciate the artwork fully.

Take Notes and Discuss

Join manga communities online or locally to discuss theories, character development, and favorite moments.

Compare Editions

If possible, compare the English edition with the original Japanese version to appreciate translation choices and cultural nuances.

Explore Related Media

Many manga series are adapted into anime, light novels, or video games. Exploring these can deepen your understanding and enjoyment of the universe.

Conclusion

The "Guts" English Edition stands as a testament to the series' international popularity and cultural significance. By providing accessible language, high-quality translation, and thoughtful localization, this edition opens the door for a wider audience to experience the gripping story and stunning artwork. Whether you're a seasoned manga fan or a newcomer, engaging with the English edition of "Guts" can be a rewarding journey into a world of resilience, adventure, and human spirit. As the series continues to grow in popularity, staying updated with official releases and supporting the creators ensures that this compelling story will reach even more readers around the globe. So, dive into the Guts English Edition today and immerse yourself in a saga that celebrates courage and perseverance.

guts english edition: Unlocking the Power of Motivational Manga for English Readers

In the realm of manga and graphic novels, few series have managed to inspire and resonate with audiences as profoundly as Guts, the autobiographical manga by Masashi Kishimoto. The Guts English Edition has emerged as a pivotal publication, bridging cultural gaps and making this compelling story accessible to a global audience. This article delves into the significance of the Guts English Edition, exploring its origins, thematic depth, publication journey, and its impact on readers worldwide.

The Origins of Guts and Its Cultural Significance

A Brief Background of Masashi Kishimoto and Guts

Masashi Kishimoto, best known for creating the internationally acclaimed Naruto series, also authored Guts, a deeply personal manga that reflects his struggles, perseverance, and passion for storytelling. Unlike Naruto, which is set in a fantastical ninja universe, Guts is an autobiographical account that chronicles Kishimoto's journey from a young, aspiring manga artist to a renowned creator.

Guts is more than just a memoir; it serves as an inspiring testament to resilience. The manga explores themes of self-doubt, rejection, hard work, and the relentless pursuit of one's dreams—all of which resonate across cultural boundaries. Its raw, honest portrayal of the artist's experiences has made it a motivational resource for many aspiring creators and fans alike.

Cultural Barriers and the Need for an English Edition

Originally published in Japanese, Guts faced the challenge of reaching a broader audience unfamiliar with its language and cultural nuances. Manga fans worldwide often seek authentic translations that preserve the original tone and intent. The English edition emerged as a vital conduit, allowing non-Japanese speakers to access Kishimoto's story in their native language.

The demand for an official Guts English Edition grew alongside the manga's popularity, driven by fans eager to delve into the creator's personal journey. Beyond entertainment, the English edition has also become a motivational tool, inspiring countless readers to overcome their own obstacles.

The Publication of the Guts English Edition

Publishing Process and Localization

The process of translating and publishing Guts in English involves meticulous work by a team of translators, editors, and cultural consultants. The goal is to maintain the authenticity and emotional impact of the original Japanese text while ensuring readability for an English-speaking audience.

Key aspects of the localization process include:

- Preserving Tone and Nuance: Translators work to capture Kishimoto's voice, humor, and sincerity without losing the cultural context.
- Adapting Cultural References: Some references or idiomatic expressions are adapted to be understandable, while others are left intact with footnotes or annotations.

- High-Quality Artwork Reproduction: The physical edition offers sharp, vibrant reproductions of Kishimoto's artwork, maintaining the visual integrity of the manga.
- Additional Content: Some editions include bonus material, author's notes, or commentary that enrich the reader's understanding of the creator's mindset and experiences.

Editions and Availability

The Guts English Edition has been published in various formats:

- Standard Paperback: Ideal for casual readers and collectors seeking affordability.
- Deluxe Hardcover Editions: Featuring premium paper quality, larger size, and exclusive cover art, appealing to dedicated fans and collectors.
- Digital Versions: Available on major e-book platforms, allowing instant access for global readers.

The series has been distributed through major bookstores, online retailers, and manga specialty shops, ensuring broad accessibility.

Thematic Depth and Impact of Guts

Core Themes Explored in Guts

At its core, Guts is a narrative about perseverance in the face of adversity. Some of its central themes include:

- Resilience and Determination: Kishimoto shares moments of rejection and failure but emphasizes the importance of persistence.
- Self-Discovery: The manga charts his evolving understanding of his identity as an artist and individual.
- Passion and Creativity: It underscores the significance of loving what you do and dedicating oneself fully to one's craft.
- Overcoming Self-Doubt: The story openly discusses feelings of insecurity, making it relatable to many readers confronting their own doubts.
- The Power of Dreams: Kishimoto's journey illustrates that dreams require unwavering commitment and often face numerous obstacles.

Impact on Readers and Cultural Perception

The Guts English Edition has had a remarkable influence on its readership:

- Inspiring Aspiring Creators: Many young artists cite Guts as a motivational source, encouraging them to pursue their passions despite setbacks.
- Promoting Mental Health Awareness: The candid portrayal of Kishimoto's struggles normalizes discussions about mental health, resilience, and perseverance.
- Fostering Cross-Cultural Appreciation: The edition helps bridge cultural divides, fostering appreciation for Japanese manga art and storytelling traditions.
- Enhancing the Manga Genre: By successfully translating an autobiographical work, Guts expands the scope of manga as a medium capable of conveying diverse narratives.

The Broader Significance of Guts in the Manga Landscape

A Testament to Personal Growth and Artistic Integrity

Guts exemplifies how manga can transcend entertainment to serve as a tool for personal growth and cultural exchange. Kishimoto's openness about his vulnerabilities enhances the authenticity of the narrative, making it a compelling and relatable read worldwide.

The Role of the English Edition in Global Manga Culture

The Guts English Edition plays a crucial role in democratizing access to Japanese manga and fostering a global community of fans and creators. Its success has encouraged publishers to seek out and translate other autobiographical or motivational works, broadening the diversity within the manga industry.

Future Prospects and Continued Relevance

Given the enduring popularity of Kishimoto's work, the Guts English Edition is likely to remain a significant publication for years to come. Its influence extends beyond immediate entertainment, inspiring ongoing conversations about resilience, creativity, and cultural exchange. Future editions or related projects may delve deeper into the themes of personal development, further enriching the manga landscape.

Conclusion: A Testament to the Power of Stories

The Guts English Edition exemplifies how stories rooted in personal experience can resonate universally, inspiring individuals across cultures and backgrounds. By translating Kishimoto's candid reflections into accessible language, this edition serves as a beacon of perseverance, creativity, and hope. It reminds us that behind every art piece or dream lies a journey of guts—a journey worth sharing and celebrating.

As manga continues to evolve and reach new audiences, works like Guts highlight the importance of

authentic storytelling and the profound impact it can have worldwide. Whether you are an aspiring artist, a seasoned manga fan, or simply someone seeking motivation, the Guts English Edition offers valuable lessons and inspiration?proof that with guts and determination, anything is possible.

Question What is 'Guts' English Edition about? 'Guts' English Edition is a graphic novel that explores themes of resilience, determination, and overcoming adversity through powerful storytelling and visuals. **Who is the author of 'Guts' English Edition?** The author of 'Guts' English Edition is Raina Telgemeier, known for her engaging graphic novels for young readers. **Is 'Guts' English Edition suitable for all age groups?** Yes, 'Guts' English Edition is suitable for middle-grade readers and older, as it addresses relatable themes with age-appropriate content. **Where can I purchase 'Guts' English Edition?** You can purchase 'Guts' English Edition at major bookstores, online retailers like Amazon, Barnes & Noble, and your local comic shops. **What are the main themes of 'Guts' English Edition?** The main themes include anxiety, overcoming fears, friendship, and personal growth. **Has 'Guts' English Edition received any awards or recognitions?** Yes, 'Guts' has received praise from critics and has been recognized as a meaningful and impactful graphic novel for young readers. **Are there any companion materials or resources for 'Guts' English Edition?** Yes, educators and parents can find discussion guides and activity resources online to support readers of 'Guts'. **How does 'Guts' English Edition differ from the original version?** The English Edition features translated text and may include additional notes or adaptations to make it accessible for English-speaking audiences. **What is the target audience for 'Guts' English Edition?** The target audience is primarily middle-grade students, ages 8-14, but it also resonates with older readers who enjoy graphic novels. **Why is 'Guts' considered an important book for mental health awareness?** Because it openly discusses anxiety and health challenges, helping young readers understand and empathize with mental health issues.

Related keywords: Guts, English edition, manga, Junji Ito, horror, graphic novel, supernatural, scary stories, Junji Ito collection, horror manga

Read the full article online: [Guts English Edition](#)