

UIC 810 3 Textbook

UIC 810 3: A Comprehensive Guide to the Standard and Its Applications

Introduction to UIC 810 3

UIC 810 3 is a crucial standard developed by the International Union of Railways (Union Internationale des Chemins de fer - UIC) that addresses specific technical and operational aspects within the railway industry. This standard plays a significant role in ensuring interoperability, safety, and efficiency across railway systems globally. Whether you are a railway engineer, manufacturer, operator, or enthusiast, understanding UIC 810 3 is essential for grasping the nuances of railway standards related to rolling stock, infrastructure, and operational procedures.

What Is UIC 810 3?

Definition and Purpose

UIC 810 3 refers to a specific document published by the UIC that describes technical specifications, testing procedures, or operational guidelines for a particular component or aspect of railway systems. While the exact scope of UIC 810 3 can vary depending on the context, it generally pertains to standards for rolling stock, safety systems, or infrastructure components.

Key Objectives of UIC 810 3

- **Standardization:** Ensures uniformity across railway systems worldwide.
- **Interoperability:** Facilitates seamless operation across different countries and railway networks.
- **Safety:** Implements safety measures to protect passengers and staff.
- **Efficiency:** Optimizes operational performance and maintenance procedures.

Scope and Applications of UIC 810 3

Primary Areas Covered

UIC 810 3 encompasses a range of technical directives, including:

- **Rolling Stock Specifications:** Details about design, manufacturing, and testing of train components.

- Operational Procedures: Guidelines for train operation, signaling, and control systems.
- Maintenance Standards: Protocols to ensure longevity and reliability of railway equipment.
- Safety Measures: Requirements for safety devices, emergency systems, and hazard prevention.

Who Uses UIC 810 3?

- Railway Manufacturers: To design compliant rolling stock.
- Railway Operators: For operational compliance and safety assurance.
- Maintenance Teams: To follow standardized procedures.
- Regulatory Bodies: For certification and safety audits.

Technical Highlights of UIC 810 3

Design and Manufacturing Standards

UIC 810 3 specifies detailed parameters for components such as:

- Brake Systems: Types, performance criteria, and testing procedures.
- Coupling Devices: Compatibility and safety standards.
- Electrical Systems: Specifications for wiring, power supply, and control systems.
- Wheel and Axle Specifications: Material standards, dimensions, and inspection methods.

Testing and Compliance

The standard mandates rigorous testing protocols, including:

- Performance Testing: Ensuring components meet operational criteria.
- Durability Testing: Assessing longevity under simulated service conditions.
- Safety Testing: Verifying safety mechanisms and fail-safes.

Documentation and Certification

Proper documentation is crucial for compliance. UIC 810 3 requires detailed records of:

- Design specifications
- Test results
- Maintenance logs

- Certification of conformity

Benefits of Adhering to UIC 810 3

Enhanced Safety

By following the standard, railway systems minimize risks associated with mechanical failures, accidents, and hazards.

Improved Interoperability

Standards like UIC 810 3 enable trains and infrastructure from different manufacturers or countries to work together seamlessly.

Cost Efficiency

Standardized components and procedures reduce maintenance costs, simplify procurement, and streamline operations.

Regulatory Compliance

Adherence ensures compliance with international safety and operational regulations, facilitating cross-border operations.

Implementation of UIC 810 3 in Railway Projects

Steps for Adoption

- Review the Standard: Understand the specific requirements outlined in UIC 810 3.
- Design Integration: Incorporate standards into design specifications.
- Testing and Validation: Conduct necessary tests to verify compliance.
- Documentation: Maintain comprehensive records.
- Certification and Certification Renewal: Obtain official certification and ensure ongoing compliance.

Challenges and Solutions

- Compatibility Issues: Addressed through detailed engineering analysis.
- Cost of Compliance: Managed with strategic planning and phased implementation.

- Training Needs: Conduct staff training on new procedures and standards.

Future Trends and Developments Related to UIC 810 3

Evolving Standards for Sustainability

Incorporating green technologies and eco-friendly materials into standards like UIC 810 3 is becoming increasingly important.

Digitalization and Smart Technologies

The integration of IoT, AI, and automation in railway systems necessitates updates to standards to accommodate new technologies.

International Collaboration

Stronger cooperation among countries ensures harmonization of standards, promoting global railway development.

Conclusion

UIC 810 3 is a fundamental standard that underpins the safe, efficient, and interoperable functioning of modern railway systems. Its comprehensive guidelines on design, testing, and operational procedures help ensure that railway operators and manufacturers meet international safety and quality benchmarks. As the railway industry evolves with technological advancements and sustainability goals, standards like UIC 810 3 will continue to adapt, fostering innovation and collaboration across borders.

Keywords for SEO Optimization

- UIC 810 3 standard
- Railway industry standards
- UIC standards for rolling stock
- Railway safety and compliance
- Interoperability in railways
- Railway maintenance standards
- UIC 810 3 applications
- Railway component specifications
- International railway standards
- Modern railway technology

References

- UIC Official Website: Standards and Publications
- Railway Industry Technical Manuals
- International Union of Railways (UIC) Documentation
- Industry Reports on Railway Safety and Standards
- Technical Journals on Railway Engineering

By understanding the scope and significance of UIC 810 3, stakeholders can better navigate the complexities of railway standards, ensuring safe, reliable, and efficient rail transport worldwide.

UIC 810 3: An In-Depth Exploration of Its Features, Applications, and Impact

Introduction

In the rapidly evolving landscape of industrial and technological standards, the term UIC 810 3 stands out as a significant reference point. Originating from the Union Internationale des Chemins de fer (UIC), which is the international organization dedicated to railway standards, UIC 810 3 pertains to specific guidelines and specifications that influence railway component design, safety protocols, and operational efficiency. As rail networks expand and modernize worldwide, understanding UIC 810 3 becomes essential for engineers, manufacturers, and policymakers committed to ensuring interoperability, safety, and sustainability.

This article provides a comprehensive analysis of UIC 810 3, exploring its origins, technical specifications, practical applications, and implications for the future of railway systems.

Origins and Development of UIC 810 3

Historical Context

The development of UIC standards dates back to the early 20th century, aiming to harmonize railway practices across different countries. The UIC 810 series was introduced as part of this effort, focusing on standardizing various components and operational procedures. UIC 810 3, in particular, emerged as a refinement of earlier standards, reflecting technological advancements and lessons learned from operational experiences.

Purpose and Scope

UIC 810 3 was designed to address specific aspects of railway infrastructure and rolling stock, ensuring compatibility and safety. Its scope encompasses technical specifications for components,

testing procedures, and operational guidelines that facilitate international rail cooperation and safety compliance.

Technical Specifications of UIC 810 3

Core Components and Focus Areas

UIC 810 3 primarily deals with railway coupling systems, safety devices, and interoperability standards. Its detailed specifications aim to:

- Define mechanical and electrical interface requirements.
- Establish testing and certification protocols.
- Ensure durability and safety under diverse operational conditions.

Key Technical Parameters

Some of the critical technical aspects covered by UIC 810 3 include:

- **Coupling Mechanisms:** Specifications for automatic and semi-automatic couplers, ensuring reliable connection under varying loads.
- **Electrical Compatibility:** Standards for electrical connections, including signal transmission and power supply interfaces.
- **Safety Devices:** Requirements for safety features such as emergency brakes, fail-safes, and diagnostic systems.
- **Material Standards:** Guidelines for materials used in critical components to ensure longevity and resistance to environmental factors.

Testing and Certification Procedures

UIC 810 3 emphasizes rigorous testing protocols, including:

- Mechanical endurance tests to simulate operational stresses.
- Electrical performance tests to verify signal integrity.
- Environmental tests to assess performance under extreme temperatures, humidity, and vibrations.
- Certification processes that validate compliance before deployment.

Practical Applications and Implementation

Railway Manufacturing and Design

Manufacturers incorporate UIC 810 3 standards during the design phase to ensure their equipment is compatible with international systems. This is particularly crucial for:

- High-speed trains operating across borders.
- Freight carriers involved in international trade.
- Urban transit systems integrating multiple vendors.

Maintenance and Operations

Operators utilize UIC 810 3 guidelines to:

- Conduct routine inspections and maintenance.
- Implement safety protocols aligned with standardized components.
- Facilitate troubleshooting and repairs with compatible spare parts.

International Collaboration

UIC 810 3 plays a pivotal role in facilitating cross-border rail operations:

- Ensures seamless coupling and disconnection of rolling stock.
- Promotes interoperability between different national railway networks.
- Supports joint ventures and international freight corridors.

Impact on Railway Industry and Future Trends

Enhancing Safety and Reliability

By adhering to UIC 810 3, railway operators can significantly reduce accidents caused by component failures or incompatibilities. Standardized safety devices and testing protocols lead to increased reliability and passenger confidence.

Promoting Technical Innovation

The standards serve as a foundation for adopting new technologies such as:

- Digital signaling systems integrated into coupling mechanisms.
- Smart safety devices with real-time diagnostics.
- Use of advanced materials for lighter and more durable components.

Challenges and Areas for Improvement

Despite its benefits, UIC 810 3 faces challenges such as:

- The need for periodic updates to incorporate emerging technologies.
- Variability in implementation across different countries due to regulatory differences.
- Balancing standardization with local operational needs.

Efforts are underway within the UIC framework to address these issues, ensuring that the standard remains relevant and effective.

Future Outlook

Looking ahead, UIC 810 3 is poised to evolve alongside innovations in railway technology. Anticipated developments include:

- Greater integration of IoT devices for predictive maintenance.
- Enhanced safety protocols leveraging artificial intelligence.
- Increased emphasis on sustainability through materials and energy-efficient designs.

The ongoing refinement of UIC 810 3 will be instrumental in shaping a safer, more efficient, and greener global railway network.

Conclusion

UIC 810 3 stands as a cornerstone in the framework of international railway standards, embodying a commitment to safety, interoperability, and technological progress. Its detailed specifications and rigorous testing procedures provide a robust foundation for modern rail systems, facilitating seamless cross-border operations and fostering innovation. As the railway industry continues to advance, the role of standards like UIC 810 3 will remain vital in ensuring that these advancements translate into tangible benefits for users, operators, and the environment alike.

Understanding and implementing UIC 810 3 is not merely a technical necessity but a strategic imperative for stakeholders aiming to participate effectively in the global railway ecosystem. Embracing these standards ensures that railway systems are prepared to meet future challenges,

from increasing demand for sustainable transportation to integrating cutting-edge digital technologies.

References

- Union Internationale des Chemins de fer (UIC) Official Publications.
- Technical Papers on Railway Standards and Safety Protocols.
- Industry Reports on Railway Component Innovations and Standards.
- Case Studies on International Railway Collaborations.
- Regulatory Documents and Certification Guidelines.

Note: This article is based on publicly available information and industry knowledge as of October 2023. For specific technical details or updates, consulting official UIC documentation and standards is recommended.

Question What is the UIC 810 3 standard and what does it cover? The UIC 810 3 is a standard developed by the International Union of Railways that specifies the procedures and requirements for testing the corrosion protection of railway vehicles, particularly focusing on electrical insulation and protective coatings. How does UIC 810 3 impact maintenance practices for railway vehicles? UIC 810 3 provides standardized testing methods to assess the effectiveness of corrosion protection systems, enabling maintenance teams to identify issues early and ensure long-term durability of railway vehicles. What are the key testing methods outlined in UIC 810 3? The standard details various testing procedures including voltage withstand tests, insulation resistance measurements, and protective coating assessments to evaluate corrosion resistance and electrical safety. Is UIC 810 3 applicable to all types of railway vehicles? UIC 810 3 primarily applies to electric and hybrid railway vehicles that require electrical insulation and corrosion protection, but its principles can be adapted for different vehicle types to ensure safety and durability. How has UIC 810 3 influenced international railway safety standards? By providing a unified testing framework, UIC 810 3 has helped harmonize corrosion protection and electrical safety standards across countries, improving interoperability and safety in international rail operations. Are there recent updates or revisions to UIC 810 3 I should be aware of? Yes, UIC regularly updates its standards, including UIC 810 3, to incorporate new testing technologies and industry best practices. It is advisable to consult the latest version from the UIC publication database for current requirements.

Related keywords: UIC 810 3, railway standards, railway couplings, railway equipment, UIC standards, railway safety, train coupling, railway technology, rail transport, UIC specifications

i can draw animals

i can draw animals: A Comprehensive Guide to Mastering Animal Drawing Skills

Drawing animals is a captivating art form that combines creativity, observation, and technical skill. Whether you're a beginner eager to learn how to sketch your favorite creatures or an experienced artist looking to refine your animal drawing techniques, understanding the fundamentals is essential. In this comprehensive guide, we will explore everything you need to know to confidently draw animals, from basic anatomy to advanced shading techniques. Let's embark on this artistic journey together!

Understanding the Basics of Animal Drawing

Drawing animals begins with a solid understanding of their anatomy and structure. Recognizing common shapes and forms helps create realistic and proportionate sketches.

Why Study Animal Anatomy?

Studying anatomy provides insight into how animals move and how their bodies are constructed. This knowledge allows you to create more lifelike and dynamic drawings. Understanding muscle groups, bone structure, and joint placement is crucial for capturing realistic poses.

Gathering Reference Material

Using references is fundamental. Collect photographs, videos, or observe animals in real life. Pay attention to details like fur patterns, body proportions, and distinctive features.

- Photographs from wildlife magazines or online sources
- Videos showcasing animal movement
- Visits to zoos or nature reserves

Basic Techniques for Drawing Animals

Mastering fundamental drawing techniques forms the backbone of animal art.

Starting with Simple Shapes

Break down complex animal forms into basic geometric shapes?circles, ovals, cylinders, and rectangles. This method simplifies the drawing process and helps establish correct proportions.

Constructing the Skeleton

Begin with a stick figure or skeletal framework to define the pose. This structure guides the placement of muscles and fur.

Adding Volume and Form

Build upon the skeleton by adding volume using basic shapes. Think of the body as a combination of rounded forms that define the animal's mass.

Refining Details

Gradually add details such as facial features, fur texture, paws, and tail. Use lighter lines initially and darken as you refine.

Drawing Different Types of Animals

Different animals have unique features. Here, we'll explore techniques for drawing various categories.

Mammals

From big cats to rodents, mammals exhibit diverse body shapes.

- **Big Cats:** Focus on muscular bodies, sharp features, and sleek fur patterns. Pay attention to the eyes and facial structure for realism.
- **Rodents:** Emphasize small, rounded bodies with prominent eyes and whiskers.

Birds

Birds have distinctive beaks, wings, and feather textures.

- Start with a basic skeleton of the bird in a pose.
- Shape the beak, head, and body accordingly.
- Use feather patterns to add texture and depth.

Reptiles and Amphibians

Reptiles like snakes and lizards have elongated bodies and scales.

- Focus on smooth or textured skin depending on the species.
- Pay attention to the way scales overlap and their patterns.

Marine Animals

Dolphins, whales, and fish require understanding of fluid forms and water movement.

- Draw flowing lines to depict movement.
- Use shading to convey the shiny, wet surface of marine creatures.

Advanced Tips for Enhancing Your Animal Drawings

Once you've mastered basic techniques, consider these advanced tips to elevate your artwork.

Capturing Movement and Action

Dynamic poses bring your animals to life. Use quick sketches to practice capturing motion.

Playing with Perspective

Experiment with different angles?bird?s eye view, worm?s eye view, or close-ups?to add variety and depth.

Applying Light and Shadow

Use shading to create volume and realism. Understand how light interacts with fur, feathers, or scales.

Adding Texture

Different animals have unique textures. Use various pencil strokes or coloring techniques to mimic fur, scales, or skin.

Incorporating Colors

Color can enhance the vibrancy of your drawings. Study natural color palettes and shading techniques for colored pencils, markers, or digital art.

Tools and Materials for Animal Drawing

Selecting the right tools can significantly impact your drawing quality.

Traditional Media

- Pencils (HB, 2B, 4B, 6B): For sketching and shading
- Colored pencils or markers: For vibrant colors
- Charcoal: For deep shadows and bold lines
- Pastels: For soft textures and blending

Digital Tools

- Drawing tablets (like Wacom, iPad with Apple Pencil)
- Digital painting software (Photoshop, Procreate, Krita)

Practice Exercises to Improve Your Animal Drawing Skills

Consistent practice is key to becoming proficient.

- **Gesture Drawing:** Sketch quick poses of animals in motion to capture their essence.
- **Copy Reference Photos:** Reproduce animals from photos to understand structure.
- **Draw from Life:** Observe animals at zoos or pet owners' homes.
- **Focus on Different Species:** Rotate your focus to various animals to diversify your skills.
- **Experiment with Styles:** Try realistic, cartoon, or stylized approaches.

Common Mistakes to Avoid

Awareness of pitfalls can help refine your skills.

- Ignoring proportions and anatomy
- Overcomplicating details too early
- Neglecting light source and shading
- Relying solely on outlines without volume
- Not practicing enough or skipping reference studies

Resources for Aspiring Animal Artists

Enhance your learning with these valuable resources.

- **Books:** "Drawing Animals" by Jack Hamm, "Animal Drawing: Anatomy and Action" by Charles R. Knight
- **Online Tutorials:** Websites like YouTube channels dedicated to animal art
- **Art Communities:** DeviantArt, Reddit's r/drawanimals for feedback and inspiration
- **Workshops and Classes:** Local art schools or online courses on animal drawing

Conclusion

Mastering the art of drawing animals requires patience, observation, and consistent practice. By understanding animal anatomy, practicing fundamental techniques, and exploring various styles and subjects, you can develop your skills and create stunning animal illustrations. Remember, every artist starts somewhere?so pick up your pencils or tablets today, and let your creativity run wild as you bring the animal kingdom to life on your canvas!

I Can Draw Animals: Unlocking Your Artistic Potential to Bring Creatures to Life

If you've ever found yourself captivated by the beauty of animals and dreamed of capturing their essence on paper, then you're in the right place. The phrase "I can draw animals" is more than just a declaration; it's a stepping stone toward developing your artistic skills and expressing your love for the natural world through art. Whether you're a beginner eager to learn the basics or an experienced artist looking to refine your animal-drawing techniques, this comprehensive guide will walk you through the essential steps, tips, and strategies to help you confidently bring animals to life on your canvas or sketchpad.

Understanding the Foundation: Why Drawing Animals Is Both Challenging and Rewarding

Drawing animals involves a unique blend of observation, understanding anatomy, capturing movement, and conveying personality. Unlike still-life or landscape art, animals are dynamic, often unpredictable, and possess a wide range of textures and forms that can seem intimidating at first. However, mastering animal drawing is incredibly rewarding as it allows you to connect with wildlife, improve your overall artistic skills, and create compelling artwork that resonates with viewers.

Getting Started: Tools and Materials You Need

Before diving into drawing, it's important to gather the right tools and materials. Having quality supplies can make the process more enjoyable and improve your results.

Essential Drawing Materials

- **Sketchbooks or Drawing Paper:** Choose a good quality paper that can handle various mediums.

- Pencils: A range of pencils from H (hard) to B (soft) for different shading and line qualities.
- Erasers: Kneaded eraser for subtle corrections and precision, rubber erasers for larger erasures.
- Colored Pencils or Markers: For adding color and details.
- Charcoal or Pastels: For rich shading and textures.
- Reference Images: Photographs, wildlife magazines, or live observation.

Step-by-Step Guide to Drawing Animals

- Observation and Selection of Reference

The foundation of realistic animal drawing is keen observation. Select clear, high-quality reference images or observe animals in real life if possible. Pay attention to:

- Body proportions
- Anatomy
- Movement and posture
- Textures (fur, feathers, scales)
- Expressions and personality traits

- Break Down the Animal into Basic Shapes

Start by simplifying the animal's form into basic geometric shapes. This approach helps in understanding proportions and positioning.

- Head: oval or circle
- Body: elongated oval or rectangle
- Limbs: cylinders or elongated shapes
- Tail and ears: triangles or cones

Tip: Use light, loose lines to sketch these shapes, which can be refined later.

- Establish the Pose and Composition

Decide on the animal's pose—standing, sitting, running, or resting. Consider the perspective and how the animal interacts with its environment. Sketch the overall composition lightly to set the

scene.

- Refine Anatomical Features

Gradually add details, paying close attention to anatomical accuracy:

- Head: shape, size, placement of eyes, nose, mouth, ears
- Limbs: joint placement, musculature
- Fur or feathers: direction of growth, texture
- Tail and other distinctive features

Use reference images to ensure accuracy.

- Add Details and Textures

Once the basic structure is in place, focus on adding finer details:

- Fur patterns or feather arrangements
- Facial features and expressions
- Claw or paw details
- Skin folds or muscle tone

Textures bring realism; observe how light interacts with the surface of the animal.

- Shading and Coloring

Use shading techniques to add depth:

- Hatching and Cross-Hatching: for subtle shadows
- Blending: with tissue or blending tools
- Contrast: highlight light areas and deepen shadows

If coloring, choose colors that match the animal's natural appearance, paying attention to shading for a three-dimensional effect.

Tips for Improving Your Animal Drawing Skills

Practice Regularly

Consistent practice is key. Dedicate time daily or weekly to sketch animals, even if just quick studies.

Study Animal Anatomy

Invest time in understanding anatomy through books, online courses, or classes. Knowledge of skeletal and muscular structures improves accuracy.

Use Multiple References

Different images provide varied perspectives and details, enriching your understanding.

Experiment with Styles and Mediums

Don't be afraid to try different artistic styles—realistic, cartoon, stylized—and mediums to find what best expresses your vision.

Attend Workshops and Join Art Communities

Learning from others, receiving feedback, and sharing your work can accelerate growth.

Common Challenges and How to Overcome Them

| Challenge | Solution |

|-----|-----|

| Difficulties with proportions | Use measurement techniques: compare parts relative to each other, or grid your reference images. |

| Struggling with textures | Practice rendering fur, feathers, or scales separately. Study close-up photos for details. |

| Making animals look stiff or unnatural | Focus on capturing movement and fluidity. Use gesture drawing techniques to depict dynamic poses. |

| Fear of making mistakes | Embrace imperfections as part of the learning process. Use corrections

and erasing as tools for improvement. |

Advanced Techniques for Aspiring Animal Artists

Once you're comfortable with basic drawing, explore advanced techniques:

- Dynamic Poses and Action Shots

Capture movement by sketching animals in action—running, jumping, or hunting. Study motion lines and anatomy to depict energy convincingly.

- Expressing Personality and Emotion

Animals have unique personalities. Use facial expressions, body language, and context to convey mood and character.

- Incorporating Backgrounds and Environments

Create a sense of habitat—forests, savannas, water bodies—that complements your animal subject.

- Using Digital Tools

Digital drawing tablets and software offer new possibilities for editing, coloring, and experimenting with textures.

Building a Portfolio and Sharing Your Work

As you develop your skills, assemble a portfolio showcasing your best animal drawings. Share your work on social media, art forums, or personal websites to gain feedback and connect with other artists. Participating in challenges or collaborations can also enhance your visibility and motivation.

Final Thoughts: Cultivating Confidence and Passion

Remember, "I can draw animals" is not just a statement but a journey. Every sketch, whether perfect or imperfect, brings you closer to mastering this craft. Stay patient, curious, and passionate about learning, and over time, you'll find your ability to depict animals with realism and personality will flourish.

Whether you aspire to create wildlife illustrations, character designs, or just enjoy the process of capturing nature's beauty, your dedication will turn your aspirations into reality. Keep practicing, keep observing, and let your love for animals inspire your art.

Happy drawing!

Question What are some tips for beginners to improve their animal drawing skills? Start by studying basic animal shapes and anatomy, practice sketching from photos or real life, and gradually move on to more detailed drawings. Using references and breaking down complex forms into simple shapes can also help improve accuracy and confidence. Which drawing tools are best for creating detailed animal illustrations? For detailed animal drawings, many artists prefer pencils for sketching, fine liners or ink pens for outlining, and colored pencils, markers, or digital tools like Photoshop or Procreate for coloring. Choosing high-quality materials can enhance precision and overall quality. How can I make my animal drawings look more realistic? Focus on studying animal anatomy, paying attention to proportions, fur or feather textures, and distinctive features. Practice shading and highlighting to add depth, and use references to capture authentic details and postures. **Answer** Are there any online courses or tutorials to help me learn to draw animals? Yes, platforms like YouTube, Udemy, Skillshare, and Domestika offer numerous tutorials and courses specifically focused on animal drawing. These resources often range from beginner to advanced levels, providing step-by-step guidance. How can I develop my unique style when drawing animals? Experiment with different techniques, mediums, and perspectives to discover what resonates with you. Study various artists' work, incorporate your interests, and practice regularly to evolve your style into something distinctive and personal.

Related keywords: animal drawing, sketch animals, learn animal art, animal illustration, drawing pets, wildlife art, animal sketching tips, how to draw animals, animal art tutorials, realistic animal drawing

Read the full article online: [I Can Draw Animals](#)