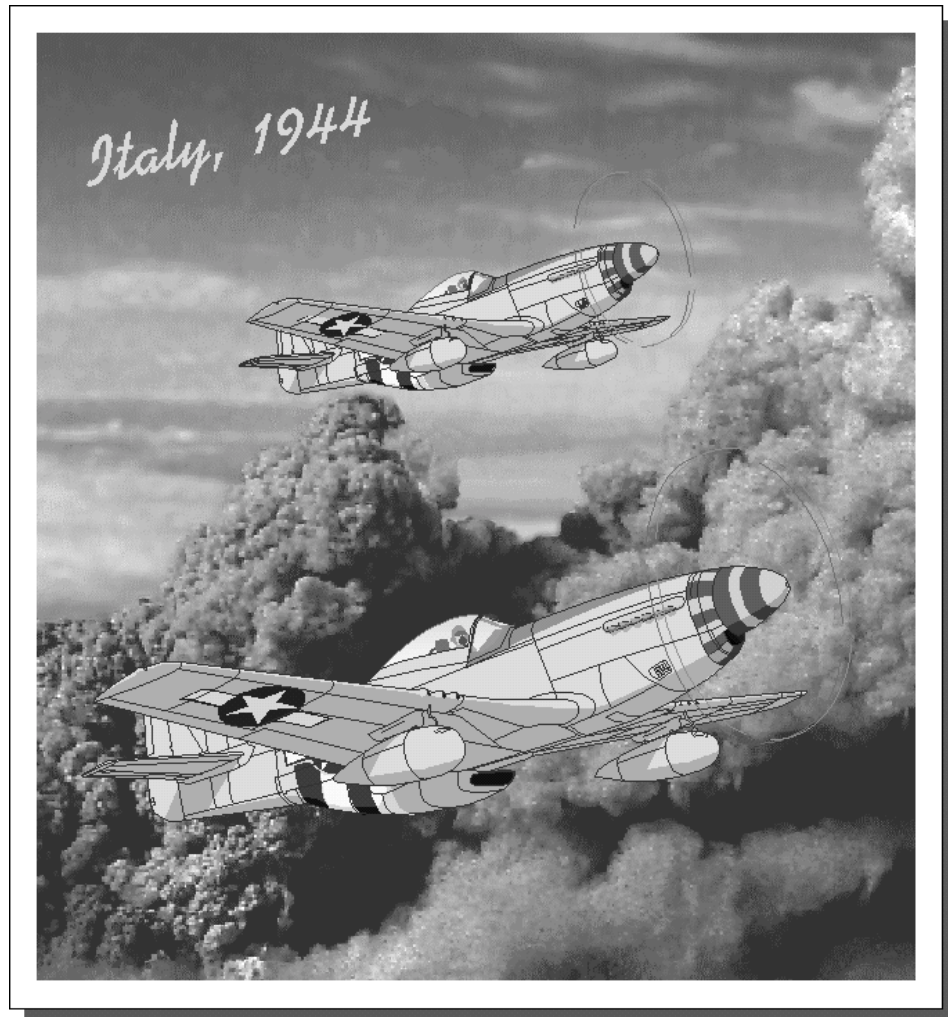


ARTS & LETTERS®
WAR BIRDS



GETTING STARTED

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Welcome to Arts & Letters WarBirds

Arts & Letters WarBirds is a complete drawing program with Drag & Drop clip-art images of military aircraft, landscapes, special effects, and a military aviation database covering the “warbird years” of 1914–1945. With *WarBirds* you can experience the sights and sounds of military aviation’s most thrilling years.

Product Information and Technical Support

For information about any *Arts & Letters* products, new releases, free clip art and fonts, visit our web site at **www.arts-letters.com**.

Please e-mail requests for technical support to **support@arts-letters.com**.

To contact us by mail, telephone or fax, see below.

Arts & Letters Corporation

4306 Sunbelt Drive

Addison, Texas 75001

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Fax: 972-381-0817

Hours: 8:30 am to 6:30 pm, CST.

Outside of the United States, see our web site for updated information about dealers and distributors of our products worldwide.

WarBirds DRAW

WarBirds DRAW is simple to use. Full screen dramatizations of famous air battles illustrate how easy it is to create artwork using the drawing tools, backgrounds, and clip art in *DRAW*. *WarBirds DRAW*’s continuously-updated Hint Line identifies whatever the cursor passes over and lists the options available; just point on an item and read the Hint Line.

On-Line User’s Guide

To view the 80+ page *DRAW On-Line User’s Guide*, click on its icon in the *Arts & Letters* group in the Windows Program Manager:



The Adobe Acrobat Reader will open and display the *User’s Guide*. Like *DRAW*, the viewer has a Hint line that identifies tools and menus when you touch them with your cursor. You can size the display of the manual’s pages and zoom in and out.

You can search for words and phrases in the document and make annotations, much as you can in a Help file.

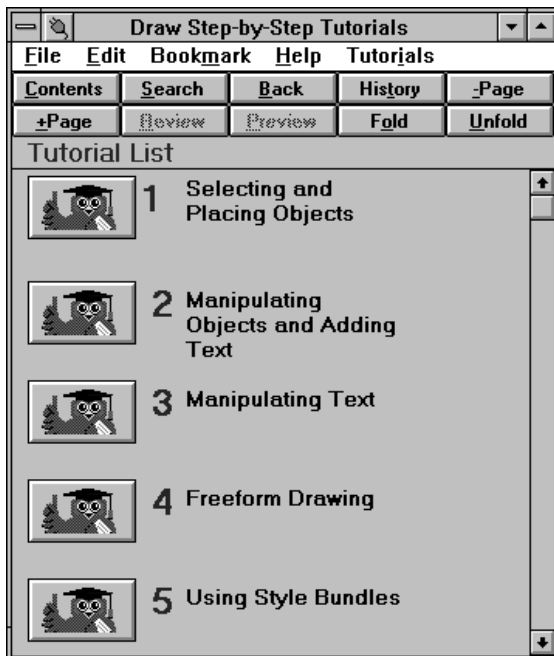
To print the *DRAW On-Line User’s Guide*, pull down the **Print** menu and select **Print**. Specify a range of pages and click on **OK**.

Tutorials

If you want to go beyond the basics and learn how to get the most from this easy-to-learn drawing and illustration product, click on **Help**.



Select Tutorials to find out how to get the most from this easy-to-learn drawing & illustration product. Five simple, yet thorough, tutorials guide you through hands-on lessons that give you practice in using the drawing and composition features of *WarBirds DRAW*.

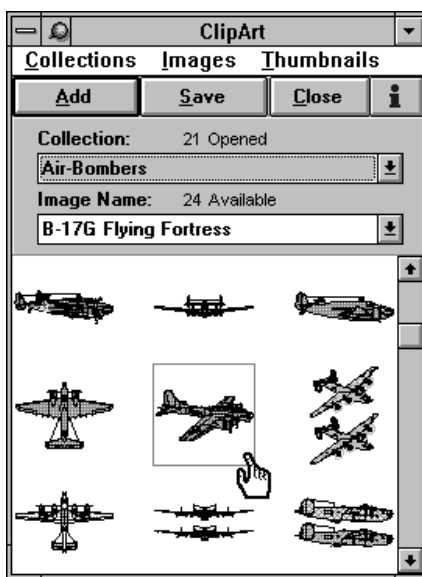


Clip Art

WarBirds DRAW comes with over 1,000 clip-art images, 600 fonts and the BOSS Font Manager.. In addition to images of famous aircraft, the *Warbirds DRAW* clip-art collection includes general purpose imagery — animals, cartoons, maps & flags, technology, scenery & landscapes, props & skylines — for use in creating stationery, greeting cards, banners, and more.

| Draw | |
|---------------------|--------|
| Clip-Art Manager... | Ctrl+M |
| Symbol... | Ctrl+S |
| Words... | Ctrl+T |
| Shapes | ▶ |
| Activity Manager... | |
| Line | F2 |
| Curve | F3 |
| Edit Drawing | Ctrl+P |
| Add Handle | F5 |
| Close Shape | F7 |

WarBirds DRAW's Drag & Drop Clip-Art Manager is the key to all this imagery. Click on the Clip-Art Manager tool in the Toolbox or choose Clip-Art Manager from the **Draw** menu.



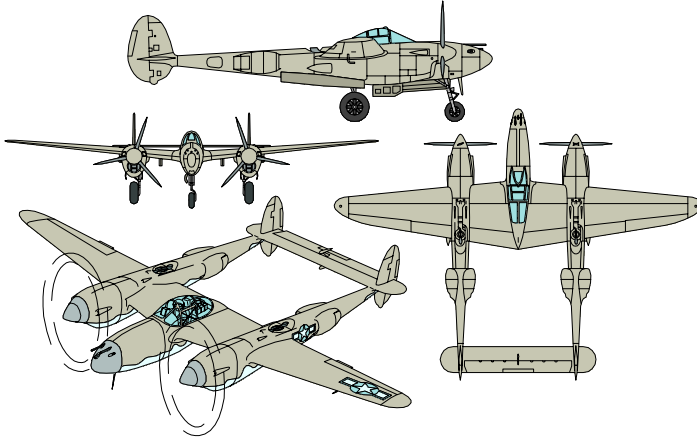
Using bitmapped thumbnail renditions, the Clip-Art Manager lets you preview the contents of each collection. When you've made your choice, you can use one of two methods to place the image in the drawing area. You can select the image name from the drop-down menu and click on the **Add** button; the Clip-Art Manager will disappear and the arrow cursor will change to the Add Object cursor. Move the cursor to the point at which you wish the image to appear, and click the left mouse button.

The second method, called "Drag and Drop" is quicker. Move the arrow cursor into the thumbnail area of the Clip-Art Manager. The cursor changes into a "hand" cursor, with which you can select an image. Hold down the left mouse button to pull the image out of the Clip-Art Manager and into the drawing area.

WarBirds DRAW's extensive aviation clip art includes aircraft shown in a variety of orientations. Some warbirds are shown in flight and in silhouette (side, front, and top); others have elements that can be manipulated to alter the original image.

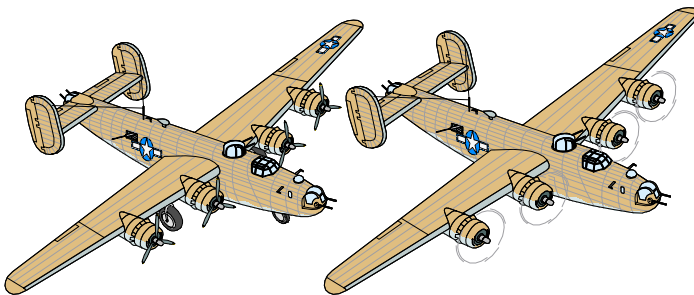
P-38 Lightning

The P-38 Lightning was an engineering answer to the need for speed and power. Twin turbocharged engines and heavy armament earned it the nickname “Fork-tailed Devil,” from German aviators. It is available in a three-quarters, flying view, as well as front, side, and top views.



B-24 Liberator

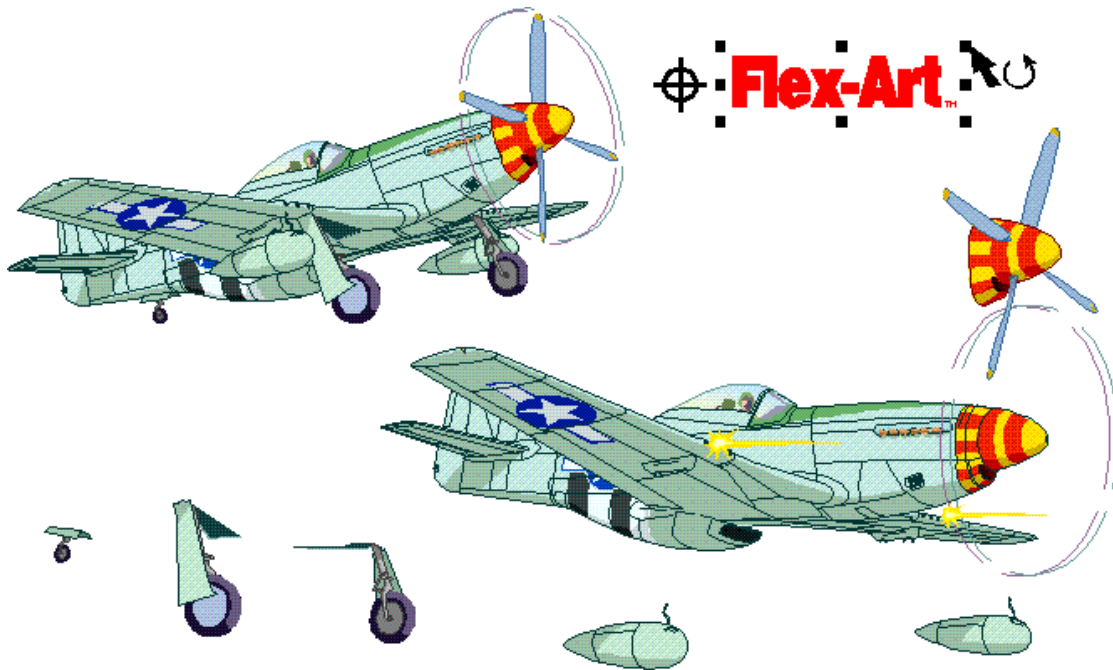
The B-24 Liberator, “the box the B-17 came in” is available in two color schemes: European Theatre camouflage green and North African desert tan. In addition, it can be used wheels-down with propellers at rest or in flight with gear retracted and propellers blurred.



P-51D Mustang

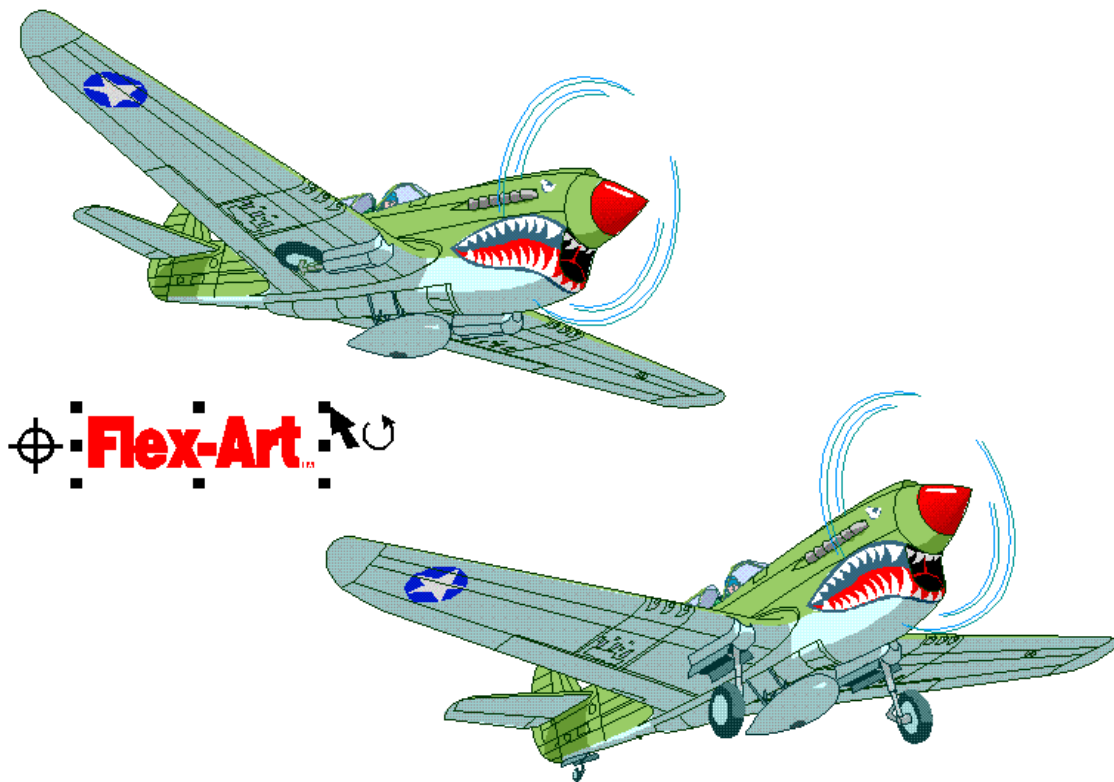
The “Cadillac of the Skies” is available in a head-on view and as a FlexART image. The initial FlexART image is of a P-51D about to taxi, its propeller barely turning.

To make it appear to be taking off, the propeller blades can be deleted, leaving a hint of the propeller’s arc. Finally, the landing gear can be deleted, leaving the appearance of retracted and covered landing gear, and the drop tanks can be jettisoned.



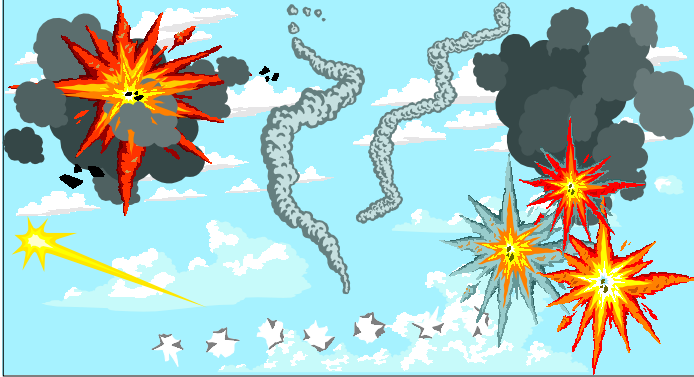
P-40 Warhawk

Like the P-51D, this fighter, made famous by General Claire Chennault's Flying Tigers, can be used in compositions with its landing gear retracted or down. The open cockpit in the flying version is accurate; while flying at low altitudes and at slower speed, pilots could and did fly with the canopy thrown back.



Special F/X and Backdrops

These collections contain “props” and bitmap backdrops you can use to create battle scenes in minutes: select a backdrop, add aircraft, then complete the composition with such props as cannon and machine gun flashes, flak and bomb explosions. The two scenes shown on page 12 of this booklet were created using elements from these collections.



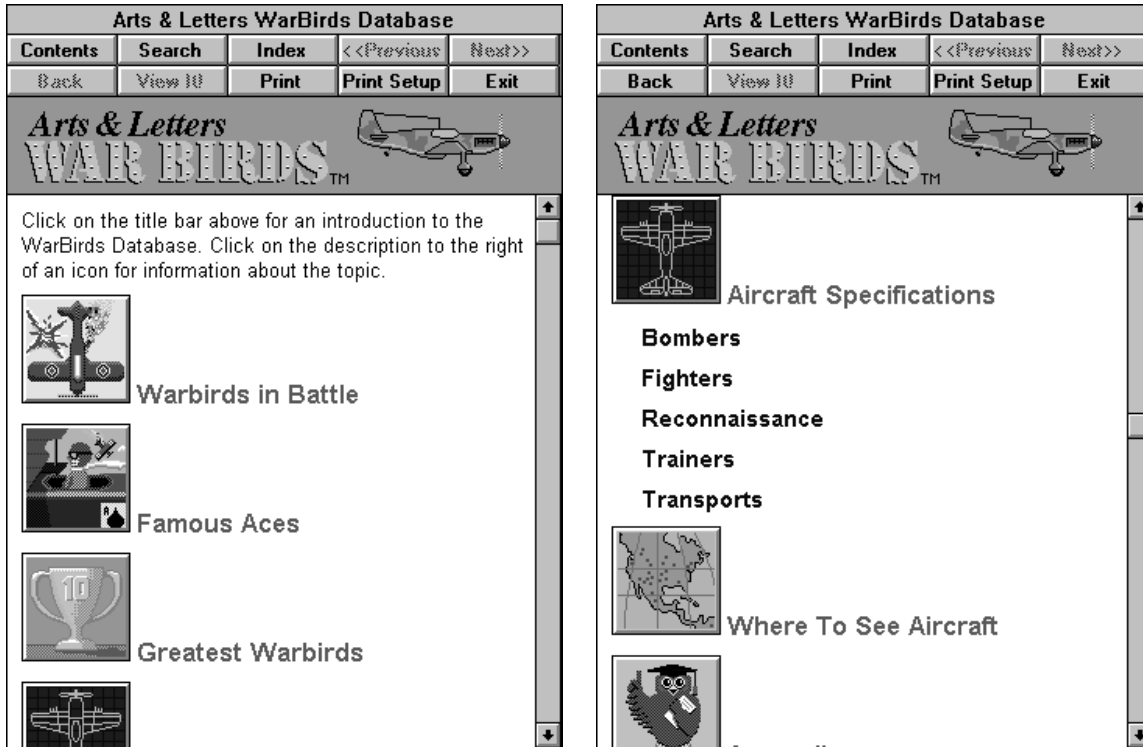
WarBirds Database

The *WarBirds* Database is a compact but powerful encyclopedia of military aviation from 1914 to 1945. To start the Database, simply pull down the **Database** menu from the Menu bar.

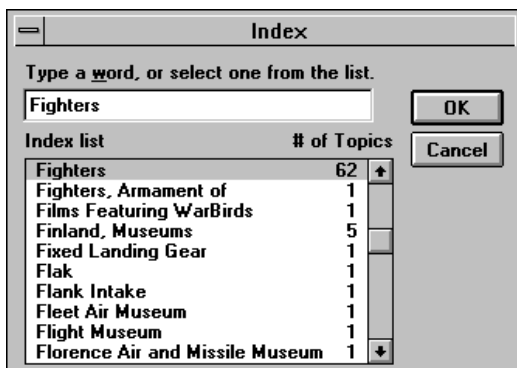
| Database | |
|--------------------------|---------------------------------------|
| <u>W</u> arbirds | <u>C</u> ontents |
| <u>S</u> ound Effects | <u>W</u> arbirds in Battle |
| <u>H</u> elp on Database | <u>F</u> amous Aces |
| | <u>G</u> reatest Warbirds |
| | <u>A</u> ircraft Specifications |
| | <u>W</u> here to <u>S</u> ee Aircraft |
| | <u>A</u> ppendix |
| | <u>G</u> lossary |

You can select **Help on Database**, which will help you navigate through the database. Help is also available at any point within the database; just click the right mouse button. **Sound Effects** allows you to select and play sound clips of aircraft, famous leaders, and special effects. Click on **Warbirds** to see the topics available in the Database.

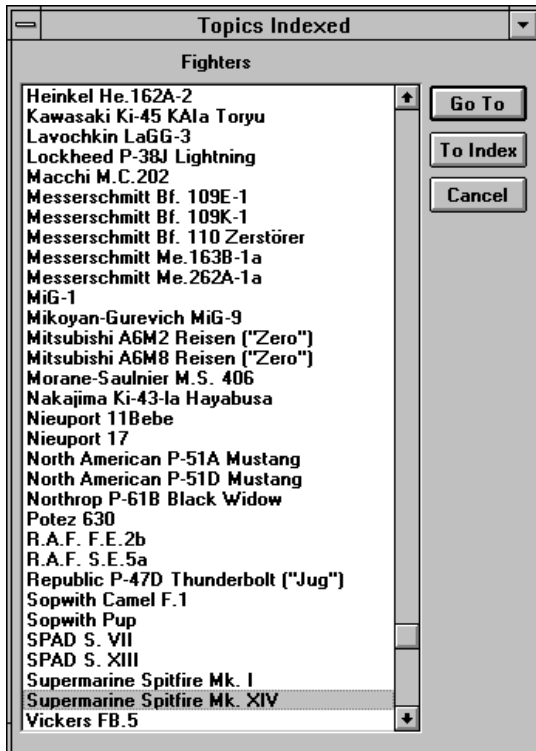
Click on Contents to see the scope of the *WarBirds* Database. The database is divided into seven main topics, each represented by an icon: Warbirds in Battle, Famous Aces, Greatest Warbirds, Aircraft Specifications, Where To See Warbirds, Appendix, and Glossary. When you click on a topic button, other choices appear, as when you click on Aircraft Specifications in the example below.



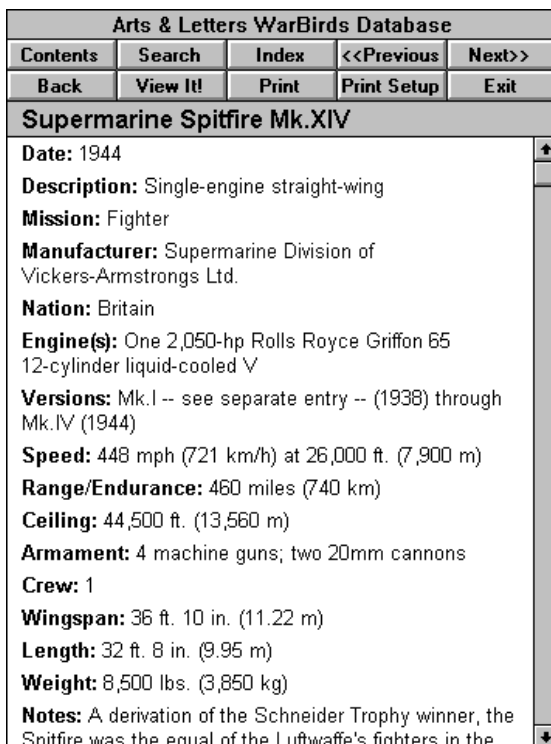
In the example, you can select the topic Fighters, then use the Next and Previous buttons to browse one by one through a chronological listing of fighters from 1914 through 1945. You can also click on the Index button and type in the word “fighters” to see that the *WarBirds* Database profiles 62 fighters.



Click on OK, and the Index lists all those fighters alphabetically.



Select a particular fighter from the list and click on Go To; the database window presents the specifications of that fighter. The *WarBirds* Search feature is similar, but its results are more inclusive: it locates every instance of the use of a keyword. For example, type "Spitfire" to find every reference to it throughout the entire database. Select Museums and repeat the search to list all of the museums with a Spitfire on display.



Click on the View It! button in the button bar to display a recognition silhouette of the aircraft. (The same silhouette can be viewed by scrolling to the end of the aircraft's specifications.)



Throughout the *WarBirds* Database are words highlighted in dark blue. When your cursor passes over these words, it will change to a pointing finger to alert you that additional information is available.

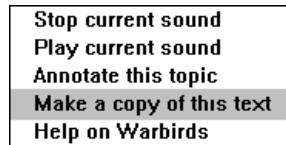
| Arts & Letters WarBirds Database | | | | |
|--|----------|-------|-------------|--------|
| Contents | Search | Index | <<Previous | Next>> |
| Back | View It! | Print | Print Setup | Exit |
| Supermarine Spitfire Mk.XIV | | | | |
| Date: 1944 | | | | |
| Description: Single-engine straight-wing | | | | |
| Mission: Fighter | | | | |
| Manufacturer: Supermarine Division of Vickers-Armstrongs Ltd. | | | | |
| Nation: Britain | | | | |
| Engine(s): One 2,090-hp Bristol Perseus XII 12-cylinder liquid-cooled radial | | | | |
| Versions: Mk.I -- seafire Mk.IV (1944) | | | | |
| Speed: 448 mph (721 km/h) | | | | |
| Range/Endurance: 1,200 mi (1,931 km) | | | | |
| Ceiling: 44,500 ft. (13,566 m) | | | | |
| Armament: 4 machine guns | | | | |
| Crew: 1 | | | | |
| Wingspan: 36 ft. 10 in. (11.22 m) | | | | |
| Length: 32 ft. 8 in. (9.95 m) | | | | |
| Weight: 8,500 lbs. (3,850 kg) | | | | |
| Notes: A derivation of the Schneider Trophy winner, the Spitfire was the equal of the Luftwaffe's fighters in the | | | | |

Supermarine Division of Vickers-Armstrongs Ltd.
 (Britain) In 1916, Pemberton-Billing Ltd. was sold, and the new director named the firm by its telegraphic address, which had been "Supermarine." **The Supermarine Aviation Works Ltd.** built flying boats and amphibians, but its heyday arrived when designer R.J Mitchell began designing a series of seaplanes that won the Schneider Trophy three years in a row. In 1928, Vickers took over Supermarine, but kept its famous name prominent (as in **Vickers-Armstrongs Ltd., Aircraft Section, Supermarine Division**). In 1936, Mitchell was dissatisfied with one of Supermarine's fighter designs (the 224) and gained permission to redesign it completely. His redesign became one of the most famous fighters of the Second World War, the Spitfire. In 1960, Vickers (and Supermarine) became a part of BAC.

Click on these words to see popup definitions, pictures, or secondary scrolling windows (for longer explanations). The definitions are also available alphabetically in the Glossary and in Aircraft Manufacturers (found in the Appendix).

Although you cannot print the information you see in popups, you can find the information in the Glossary or Appendix, and you can print it from there. Print any text by clicking on the

Print button. You can also copy the text to the Windows Clipboard and paste it into any word processing application. To copy information, click the right mouse button and choose “Make a copy of this text” from the menu. The dialog box that appears allows you to copy all or part of the topic.



Note that this “content” menu also gives you access to Help, allows you to annotate the topic (as explained in Help), and lets you start and stop *WarBirds* sound clips.

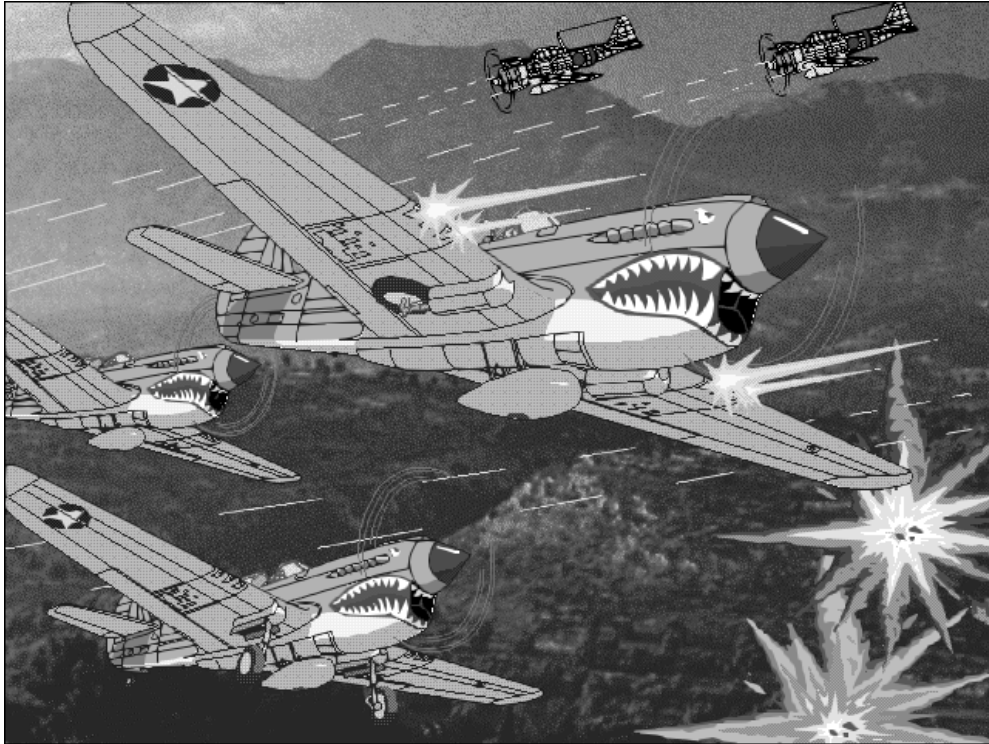
Warbirds in Battle

Warbirds in Battle presents narrated scenes of famous air battles, as well as a reading of “High Flight,” a poem by an RAF pilot. The illustrations were composed using the clip art and tools available in *WarBirds DRAW*.

Two Scenes from Warbirds in Battle (Created Using WarBirds Clip Art)



High Flight

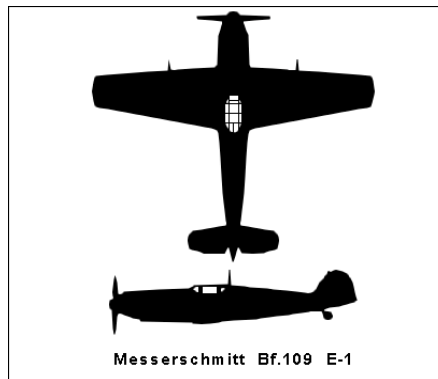


Tigers over China

Famous Aces

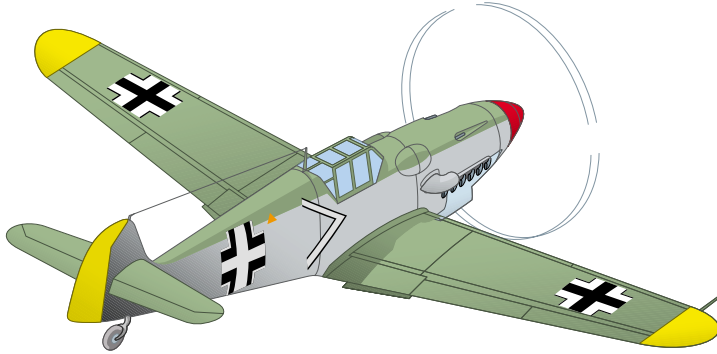
Famous Aces presents lists of the highest-scoring aces of the First and Second World Wars, with the number of each pilot's victories. In addition, there are narrated stories about prominent aces from both wars, personal glimpses and defining moments. As you read these sketches, you can click on the highlighted names of the aircraft they flew and those they battled against to see pop-up identification silhouettes of them. (You'll find complete descriptions in the Aircraft Specifications.)

| Arts & Letters WarBirds Database | | | | | |
|---|--------|--|------------|--------|------|
| Contents | Search | Index | <<Previous | Next>> | Back |
| View All | Print | Print Setup | Exit | | |
| Erich Hartmann, Major (Germany) | | | | | |
|  | | <p>Erich Hartmann began his combat career on the Eastern Front, in Russia, where initially many of his opponents were both unskilled and flying aircraft completely outmatched by his Messerschmitt Bf.109E. Eventually, Russian pilots amassed some skill of their own and flew more contemporary designs, but it made no difference to Hartmann.</p> <p>At one point, Hartmann had a black tulip painted on his Bf.109's nose, but Soviet pilots learned to identify him by the symbol and avoided him. Only after he painted over the tulip and became anonymous again was he able to continue scoring victories to his final tally of 352.</p> <p>"Bubi" ("boy" or "kid") Hartmann flew over 1,500 missions during the war. A superb fighter pilot and a brilliant marksman, Hartmann usually took his victims by surprise, flying so close before firing that it was often difficult to avoid the pieces of his opponent's aircraft. In fact, his plane was forced down eight times, severely</p> | | | |



Greatest Warbirds

Greatest Warbirds is an arbitrary list of the top twenty greatest warbirds, with a writeup explaining why it is on the list. When you click on a warbird's name, its specifications appear and the sound of an actual flyby of that aircraft plays.



One of the Greats – the Bf. 109E

Where to Find WarBirds

UNITED STATES

The Air Museum "Planes of Fame"
 7000 Merrill Ave. , Box 17
 Chino, California 91710
 909-597-3722

Direct Route: Chino Airport, located southeast of Chino on Hwy. 83 (Euclid Ave). At Airport turn east on Merrill Ave. and follow the signs.

Hours: Open daily 9am-5pm

Admission: Adults 4.95; children 1.95.

Highlights: Approximately 110 aircraft, many of which are in flying condition. The collection is impressive, and includes a B-17G, a Mitsubishi A6M5 Zero, a Messerschmitt 262A-1a, two P-51's and a Vought F4U-1 Corsair.
 (Gift shop)

Where To See Warbirds

Where To See Warbirds allows you to select maps of Australia & New Zealand, Canada, Europe, and the United States. On these maps are dots marking the location of aviation museums or exhibits; click on them to see popups with complete information about the museums. The Index also allows you to view and print lists of museums by countries and states.

Glossary

What's an *empennage*? What are *fairings*? The Glossary will tell you what they are and much more. In addition to serving as a dictionary of aviation terminology, the Glossary is where you'll find all the information contained in the popup definitions throughout *WarBirds*.

Sound Clips

The *WarBirds* Database is also filled with sound clips that play automatically. There are sounds of actual flybys, introductions, instructions, and narratives. You can stop and start them by clicking with the right mouse button.

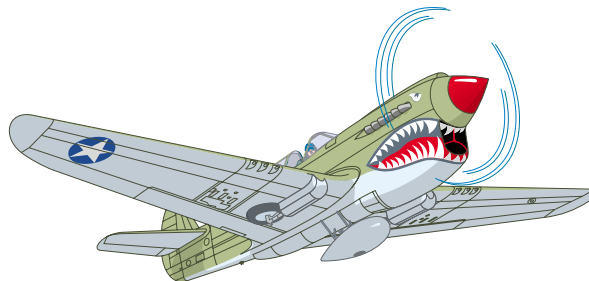


Appendix

The Appendix gives you a choice of several informative topics: A Brief Survey of Military Aviation, a brief history of the field; Fighter Development, or how Wilbur and Orville's invention became the weapon of the century; Manufacturers of Warbirds, which contains information about nearly every firm — U.S. and foreign — that has had anything to do with warbirds; Movies Which Feature Warbirds, an admittedly incomplete list; Recommended Reading; and Nose Art, some of which is illustrated above.

WarBirds Sound Effects

WarBirds Sound Effects allows you to play sound clips from three categories: Special F/X, War of Words, and Aircraft Flybys. Special F/X has such clips as aerial battles, air raid sirens, anti-aircraft fire, dive bombers, and the London Blitz. War of Words presents actual recordings of Franklin Roosevelt, Winston Churchill, Field Marshal Montgomery, Dwight Eisenhower, Charles DeGaulle, Adolf Hitler, and other famous leaders. Aircraft Flybys plays the sounds of famous warbirds, such as the Spitfire, P-51 Mustang, and P-40 Warhawk.



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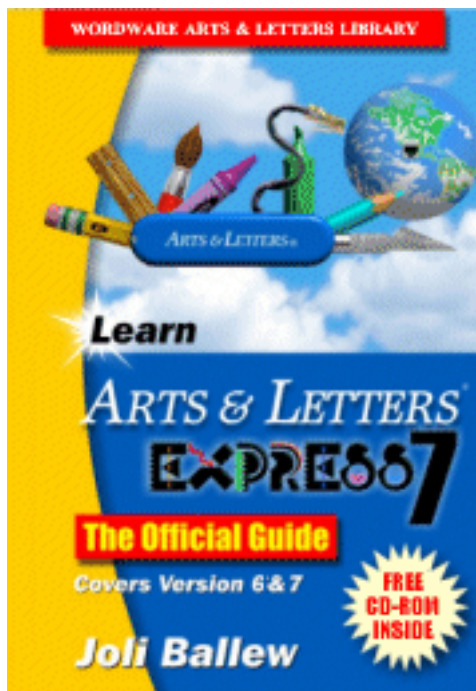
The Official Guide

Covers Version 6 & 7

Joli Ballew

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This book is written for everyone, and is a great book for Arts & Letters enthusiasts both new and old. It will prove invaluable to all of you - for those of you who have been using the program since the mid 1980's, as well as those who just joined on with the latest version.

Easy to read and understand, the Official Guide to Arts & Letters contains "textbook" elements so it can be adapted for use by schools and curriculum developers.

Every aspect of Arts & Letters is included; every tool is detailed, every menu is examined, and countless applications of the tools are offered.

Included in the book are step-by-step instructions for performing all tasks and using all of the features of Arts & Letters Express. This includes items not found in the

Help files, such as how to add fonts and clip art from third party applications, and how to import and export images between applications.

There is a CD-ROM with ideas for teachers, projects for students, concepts for flyers, company documents, announcements, and much more. The reader can use the art files as templates for creating their own work.

So for all of you out there who've been using Arts & Letters for years and years, this book is for you; you'll learn how to use the tools you have yet to try or don't quite understand. For those of you that are new to Arts & Letters - what a great time and place for you to get on board!

About the Author

Joli Ballew is a full-time writer and graphic artist and resides in the Dallas area. She has also worked as an educational content consultant, a network administrator, a high school algebra teacher, and a college instructor. After graduating from the Performing Arts Magnet in Dallas where she studied music and the arts, she attended college at the University of Texas at Arlington, and graduated with a B.A. in Mathematics and a minor in English.

Currently Joli has three books available: *Windows 2000 Professional Test Yourself* from Syngress Media, and *Windows 2000 Server On Site and Windows XP Professional - The Ultimate User's Guide* both published by Paraglyph Press. Joli is working on two new books to be published in late 2002; *The Complete Idiot's Guide to Photoshop Elements* by Alpha books (co-authored with Greg Holden) and *A Simple Guide to Photoshop 7.0*, published by Pearson Education.

About the Technical Editor

Sam Andrew, Technical Editor for the book, combines real world experience in graphics with an understanding of education and curriculum development.

Sam is the Curriculum Manager for Technology Education for Highlands High School in Pennsylvania and was instrumental in developing their Computer Graphic Design Specialist Program replacing a traditional Industrial Arts program. Highlands now has articulation agreements with six colleges and technical schools to which Highland graduates are able to go with advanced credit. Arts & Letters EXPRESS has been an integral part of the Highlands' curriculum for the past ten years. Sam is currently developing a Computer Graphic Design class for adults in the community.

About the Publisher

Wordware Publishing, Inc. is the leading computer book publisher for these subjects: Game Development, Game Production, Delphi, Kylix, LightWave, 3DS Max, Direct X, Search Engine Optimization, Sybase, AutoCAD LT, FileMaker, Peachtree, and Miva.

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