

Tips & Tricks for Microsoft Flight Simulator 2004

by David "Opa" Marshall

INDEX **January 2006**

TITLE	SUBJECT	SUMMARY	RELATED DOWNLOAD	D/L FILENAME	DOWNLOAD AUTHOR	AIRCRAFT or SCENERY GENERAL NAME	AIRCRAFT or SCENERY SPECIFIC NAME	LINK	T&T ISSUE
3D Contrails	Aircraft tweak	Download to enable creation of realistic 3D contrails behind high-flying aircraft.	3D Contrail	fscontrail2004_v1.0.zip	Michael Thomas			http://www.avsim.com/	10
3D Contrails	Website	Link to discussion on creating aircraft contrails.			Scott Gridley			http://forums.avsim.net/dcboard.php?az=show_m	10
A "Dream" setup	Systems	Illustrated description of one simmer's hardware setup for FS.							9
A "Must Have" on Your Favorite Web Site List	Website	Link to the FAA (Federal Aviation Administration) website, USA. Provides NOTAM information and other services.						http://www.faa.gov/	11
A "Heads Up" for Scenery Designers and/or Enhancers	Design	A flyable basic "pointer" for positioning objects in FS using programs such as RWY12.		scenery_pointer.zip	Larry Silsbee			http://www.avsim.com/	11
A Better Mousetrap?	FS performance	Tutorial on how to set up multiple, selectable configurations of FS2004.		multiple_fs9.exe__no_tool.zip	David Roch			http://www.avsim.com/	18

A Caution to Observe When Changing Items in the FS9.cfg file	FS performance	Caution to only edit FS9.cfg when FS2004 is NOT running.							8
A Couple of Tricks Using AFCAD	Scenery design	Using AFCAD to provide other scenery enhancements such as roads and grassed areas, inspired by Craig Swartzlander's work (see link at right).						http://it-dev-cas7.pn.buffalo.edu/fse/	5
A Funny Thing Happened On The Way To The Forum	Website	Suggestion to use online FS forums as a help resource.							3
A Great Demo Program!	Aircraft	Downloadable demo of FS aircraft menu viewer; enables viewing of aircraft and liveries, including any made invisible for AI purposes. Full payware version allows liveries to be edited / repainted.	Abacus FSR (Flight Simulator Repaint)					http://www.flightsimdownloads.com/pub/AbacusFSRRepaintDemo.exe	11

A Happy Ending	Panels and gauges	More information about a panel gauge to facilitate ATC responses (search this index for "Nick Pike" for the original reference or consult to T&T 16). Directions to a downloadable version of the gauge for general use.		ATCDIGITS_Tutorial.zip at AVSIM: ATCDIGTU.zip at Flightsim.com				http://www.avsim.com/	18
A Happy Ending	Aircraft	Development of a full-featured payware F117A Nighthawk by Nick Pike.			Nick Pike	Lockheed	F117 Nighthawk	http://fs2x.com/	18
A Happy Ending	Systems	Nostromo Speedpad - a small keypad containing two rows of keys numbered 1 to 5 and 6 to 10 plus a few other programmable keys to allow some FS functions to be set on a dedicated keypad.						http://catalog.belkin.com/IWCatProductPage.process?Merchant_Id=&Section_Id=2071&pcount=&Product_Id=157024	18
A Little "Gem"	Scenery	Courtenay Airpark CAH3, Vancouver Island BC, a GA airport designed for Ultimate Terrain but works in default.		Courtenay_Airpark_V1a.ZIP	Peter Hall	Canada	British Columbia	http://www.vaniseva.com/index.php?action=scenery	18

A New Recording Enhancement	Utility	An enhancement to the FS recording program, in beta at the time of writing. A small file which enables view changes and alteration of other parameters in the resulting recording.			Matthias Neusinger			http://www.neusinger.net/recorder/index.php	18
A New Tool for Scenery Creators	Scenery design	Tool to capture values such as coordinates from FS2004 for use in various scenery creation		fs-values.zip	Wolfgang Schwarz			http://www.avsim.com/	10
A New Scenery Creator Program	Scenery design	A payware scenery enhancer (with free demonstration version available). Scenery is placed within flightsim, with the results visible as you work. Able to accept additional scenery	EZ-Scenery		Abacus			http://www.abacuspub.com/ezscenery	18
A New Way to Watch AI Traffic	Utility	Microsoft Traffic Toolbox, known to AI designers, allows users to select an AI flight and follow it in spot view. It also allows users to take control of the AI aircraft and print airport lists.	Traffic Toolbox	traffictoolbox_sdk_setup.exe	Microsoft			http://www.microsoft.com/games/flight simulator/fs2004_downloads_sdk.asp#traffic	14
A Nifty Windows XP Utility	Utility	Link to BaxBex website to obtain a utility to create an icon enabling easy creation of a new folders for use when unzipping and installing new items.	BXNewFolder	bxnewfolder_v100.exe				http://www.baxbex.com/products.html	13

A Sound Enhancement for Helicopters	Aircraft	Guage which enables sound changes according to engine speed of helicopters.		chpsnd_04.zip	Alejandro Villa, Brian Kostick			http://www.flightsim.com/cgi/kds/main/menuchoo.htm	11
A Source for How To's	Website	Link to Flightsim.com's tutorial and how-to section.						http://www.flightsim.com/cgi/kds?\$/=main/m-howto.htm	10
A Step Saver for FSNavigator Users	Aircraft	The Lockheed / Kawasaki P-3C package by FS KBT.		p-3c_.zip and p3up_kbt.zip (AVSIM)		Lockheed Kawasaki	P-3C Orion	http://www.avsim.com/	12
A Step Saver for FSNavigator Users	Utility	Short cut to adding new aircraft profiles to the FSNavigator menu.							12
ATIS Tips	FS performance	Options to edit or turn off the ATIS messages in FS, including link to a program to hide the scrolling message bar.		AdvDisp.zip				http://www.schiratti.com/dowson.html	16
A Unique Fundraiser	Scenery	A scenery package to add the historic City Federal Building to Birmingham, Ala., with links to a fundraising site to save		cityfederal.zip	Central Alabama Scenery Design	United States	Alabama	http://www.avsim.com/	8
A Useful Windows Utility	Utility	Windows toolbar which allows quick access to files.		find.pcworld.com/47126				Use search engine - e.g. Google - and search file name	11

A Virtual Cockpit - Just What Is It?	Aircraft	Explanation of what a virtual cockpit is and comparison with the 2-dimensional cockpit / panel.							11
A Word Regarding Sceneries etc I	Editorial	Explanation of author's focus in US sceneries.							4
A Work In Progress	Scenery	Scenery Ottawa CYOW airport, Ontario, in production, with progress download available.		CYOWAlpha11.zip	Paul Mainville	Canada	Ontario	http://www.vnwa.com/Noramair/Projects/Ottowa.html#CYOWAlpha	12
A Work In Progress	Scenery	FS2002 scenery for Rockliffe Airport CYRO, Ontario, Canada, which works in FS2004. Also needs patch file.		rockliffe.zip rocklifpatch.zip	Jim Turner	Canada	Ontario	http://www.avsim.com/	12
A Work In Progress	Scenery	FS2002 scenery for Gatineau-Ottawa CYND airport, Quebec, Canada, works in FS2004, and an update is expected.		cynd02v1.zip	Normand Boucher	Canada	Quebec	http://www.flightsim.com/cgi/kds/main/menuchoo.htm	12
A Work In Progress	Scenery	Landclass file for Ottawa, Ontario area, including the missing in default suburb of Orleans.		ottland1.zip	Roger Wensley	Canada	Ontario	http://www.avsim.com/	12
Adding a Tower	Scenery	Adding identification, comm and nav frequencies for control towers using AFCAD.							10

Addon Mesh Resource Site	Website	Link to site with information on effective installation of terrain mesh in FS2002 and FS2004, and how to test how FS handles the mesh.	FS-Traveller					http://www.fs-traveler.com/priority.shtml	7
AI Smooth – Updated	Utility	Update to the AI Smooth program (T&T issue 11) with option of voice input.		aismooth_v111a.zip				http://www.avsim.com/	14
AI Sounds 101	AI traffic	Introduction to Artificial Intelligence aircraft. Download package to enhance the sounds of AI aircraft.		aisound_1.0.zip at AVSIM, aisnz.zip at Flightsim.com	Christian Neuberg, Aaron R. Swindle			http://www.avsim.com/	11
AI Sounds 101	AI traffic	Explanation of FS traffic .bgl files. Ability of FS2004 to use several traffic files.							11
AI traffic	AI traffic	Alternatives to the default AI airlines; repaints, traffic bgl, link to Project AI.						http://www.projectai.com/	2
Aircraft	Aircraft	Invisible "spotter's" plane for viewing scenery or aircraft spotting.		spottersplane.zip				http://www.avsim.com/	1
Aircraft	Surface vehicle	Pilotable ground vehicles, specifically Bill Lyons' classic Jaguar XK-120 sports car.	Search for this and other downloads		Bill Lyons			http://windrfters.com/	1

AIS equipped aircraft	Aircraft	Aircraft with Automated Inbuilt Scenery, which produces service vehicles etc. around parked aircraft.	Baby Boeings, Airbus Twins, 767 Heaven and others		Jon Murchison and others			http://arnz.myhost.co.nz/.	2
Alias? What's this Alias thing you mentioned?	Aircraft tweak	How to edit aircraft, panel or sound cfg files to use the panel or sound from a default or other aircraft.							3
An Award for Tips and Tricks!	Editorial	Award sent to T&T by a reader.							14
An Idea for Scenery Designers?	Scenery design	Photo of Cessna flying under natural arch in Utah or Arizona, suggesting possibilities for scenery design.							13
An Important Update	Utility	Downloading the AirEd program to edit .air files, and advice of an update.						http://perso.wanadoo.fr/hsors/FS_Soft/index.html	12
An Important Update	Utility	AAM program enabling .air files to be inspected, with explanations of their content.						http://perso.wanadoo.fr/hsors/FS_Soft/index.html	12
An Inviting Vacation Destination	Scenery	Scenery package for the area of Roosevelt Lake, Ariz. Including the airfield and numerous scenery and VFR objects.		rsvlt_lk.zip	Robert Palmer	United States	Arizona	http://www.avsim.com/	15
An Inviting Vacation Destination	Scenery	Terrain mesh for Arizona.		aznmmesh.zip	Eddie Denney	United States	Arizona	http://www.flightsim.com/cgi/kds/main/menuchoo.htm	15

An Outstanding Panel	Aircraft	Socata Trinidad aircraft, with special mention of its excellent panel by Barry Blaisdell.		tb21n725.zip	Premier Aircraft Design	Socata	TB20 / 21 Trinidad	http://www.flightsim.com/cgi/kds/main/menuchoo.htm	18
And The Answer Is...	Scenery Design	Using AFCAD to ensure new airport designs will show in the FS airport menu. How to add an invisible runway.							5
And The Winner Is?	Systems	Introduces one of the more complex virtual cockpits for flight sim. Includes link to site for more detailed information.						http://home.wxs.nl/~jarkest/home.html	14
Another "Dream" setup	Systems	This PC setup is creative...							12
Another AI Tip	AI traffic	How to edit FS9.cfg to change what displays in the visible labels which can be attached to AI traffic.							11
Another Error Message We Can Do Without	FS performance	Editing FS9.cfg to remove error messages relating to "old modules".							12
Another Error Message We Can Do Without	FS performance	Note that in FS9 configuration files, =1 means "true", =0 means "false".							12
Another Fine Addition	Scenery	Scenery package to place the Queen Mary at anchor near Quebec city.		qm2quebec.zip	Pierre Gallant	Canada	Quebec	http://www.avsim.com/	9

Another Fine Addition	Scenery	Two finely detailed sceneries of Chateau Frontenac, Quebec City, and the nearby Beaupre Basilica, Canada.		FRONTENAC2004.zip p Beaupre2004.zip	André Côté and Michel Baron	Canada	Quebec	http://membres.lycos.fr/decorfs/	9
Another Tour	Flight plans	Flight plans for air tours conducted between 1925 and 1931 by the Ford Motor Company, manufacturer of the Tri-Motor.		Airtour.exe				http://www.microsoft.com/games/flightsimulator/fs2004_nationalairtour.asp	16
Anti-aliasing, Trilinear and Other Strange Words	FS performance	How to adjust hardware settings to enhance FS performance. Also link to site with system guides section for help with anti-aliasing and other tweaks.						http://www.tweakguides.com	11
A Perfect Sky?	Scenery	Correction to the installation instructions for the sky enhancement package, to accommodate the English language version of FS.	Perfect Sky	perfsky.zip	David Scotti			http://www.flightsim.com/cgi/kds/main/menuchoo.htm	18
Arches Feedback	Scenery	Natural stone arches in Utah, produced as sceneries for FS2002, also works in FS2004.		rainbow.zip, arches-1.zip	Ron Ezra	United States	Utah	http://www.avsim.com/	15
Are You Lonely?	AI traffic	Resource for general aviation AI traffic packages.			Ultimate GA			http://www.ultimatega.com/	15

Are You Missing Airport Buildings?	FS performance	Fixing loss of default buildings which may be due simply to a change in display settings.							12
Around the World in 80 Days?	Aircraft	Classic radial engine Cessna taildragger includes wing tarpaulin and picnic blanket when parked.		cesawmk2.zip	William Ortis	Cessna	AW Executive	http://www.flightsim.com/cgi/kds/main/menuchoo.htm	16
Around the World in 80 Days?	Scenery	Scenery of Alert, Nunavut, CYLT with landmark signpost giving distances to cities from this remote location.		cylt1aj.zip	Andy Johnson	Canada	Northwest Territories	http://www.flightsim.com/cgi/kds/main/menuchoo.htm	16
Around the World in 80 Days?	Scenery	Detailed scenery of the historic Mont St. Michel, built on an island on a tidal sand flat off the French coast, featuring tidal variations according to time of day. NB: If necessary refer to installation summary in English - the instructions in the download are in French.		smichel2.zip	Pascal Dumat	France	Brittany	http://perso.wanadoo.fr/p.dumat/html/fs2004.htm	16
Around the World in 80 Days?	Scenery	Airport at Granville, France, LFRF, a short distance from Mont St. Michel. See notes on installation in T&T16.		lfrf2005.zip		France	Granville	http://perso.wanadoo.fr/p.dumat/html/fs2004.htm	16

Around the World in 80 Days?	Scenery	Airport at Dinard, France, LFRD, a short distance from Mont St. Michel. Includes landclass, waterclass and nearby city.		lfrd2004-v1a.zip	Etienne Vauchez	France	Dinard	http://www.avsim.com/	16
Around the World in 80 Days?	Scenery	Our Lady of Lebanon shrine.		harissa_v1.0_fs2004.zip	Jad Abizeid	Lebanon	Harissa	http://www.avsim.com/	16
Around the World in 80 Days?	Scenery	Beirut Airport OLBA and surrounding mesh.				Lebanon	Beirut	http://pages.infinit.net/mkaram/Leb2004/	16
Around the World in 80 Days?	Scenery	Scenery of Suez Canal, Egypt, with shipping and bridges.		suezchannel.zip	Winfried Orthmann	Egypt	Suez	http://www.avsim.com/	16
Around the World in 80 Days?	Scenery	Scenery of both the old and new Aswan Dam and lake, and nearby bridge, Egypt.		upperegyp2.zip	Winfried Orthmann	Egypt	Aswan	http://www.avsim.com/	16
Around the World in 80 Days?	Scenery	Detailed scenery of Eilat Airport and nearby structures.		eilatv2_174304.zip	David Rosenfeld	Israel	Eilat	http://www.avsim.com/	16
Around the World in 80 Days?	Scenery	Detailed photoreal scenery of Mt. Vesuvius, overlooking Naples.		vesuvio.zip	Mazzokan	Italy	Naples	http://mazzokan.altervista.org/download2.htm	16
Around the World in 80 Days?	Scenery	Terrain mesh for Italy.		italy.zip	Vincent van Veen	Italy		http://www.avsim.com/	16
Around the World in 80 Days?	Website	Link to website for real-world information about Mt Vesuvius, available as a download for FS9.						http://www.volcanolive.com/vesuvius.html	16

Around the World in 80 Days?	Website	Link to website for real-world information about Mont St. Michel, available as a download for FS9.						http://www.webfont.com/travel/guides/france/mt.st.mike.html	16
Around the World in 80 Days?	Scenery	Package of mainland China airport sceneries; the major airports of Xiamen, Shenzhen, Shanghai and Guangzhou in detail, with enhancements of 68 others.		aict_scenery_v2.3.20.zip		China		http://www.ai-china.net/eng/dl_showall.asp?cat_id=41&parent_id=10&parent_name=Scenery&sub_name=China+Airports	16
Artificial Horizon - Where is It?	FS performance	How to set and edit the red V axis indicator which can be made to appear centre-screen in cockpit.							3
ATC doesn't recognise your aircraft?	Aircraft tweak	Editing aircraft.cfg so ATC correctly refers to your aircraft in radio chatter.							1
ATC doesn't recognise your aircraft?	Utility	Link to EditVoicePack ATC utility site	EditVoicePack	See site				http://bevelstone.xs4all.nl/FlightSimulator/EditVoicepack/	1
Australian Humor	Humour	Selection of pilot maintenance reports and ground crew responses, supposedly attributed (this time) to Qantas.							14

Autogen Problem?	FS performance	Editing FS9.cfg to remove some autogen scenery objects and enhance framerates.							11
Award News	Editorial	In the Flightsim.com monthly contest for October, Tips and Tricks 16 was awarded the developers plaque in the Utility category. Thanks to all who voted.							17
Basic	FS performance	Changing view - "Shift" key not needed when using number pad to change view							1
Basic	FS performance	Windowed mode - improvement on frame rates							1
Basic	FS performance	System performance enhancement	Reality XP FS2004 tweaker	reality_xp_fs2k4_tweaker.zip	Reality XP			http://www.avsim.com/	1
Bay Area Bridges Updated!	Scenery	Updated version of the Bay Area Bridges scenery, which replaces the default Golden Gate Bridge and San Francisco-Oakland Bay Bridge and adds the San Mateo-Hayward Bridge and Dumbarton bridges.		bay_area_bridges.zip	Mike Mahat	United States	California	http://www.avsim.com/	15
Bells and Whistles	Panels and guages	Detailed panel for use in Boeing 727 aircraft, upgraded from the FS2002 version.		b727.050627.panel.fs2004.zip	Richard Probst	Boeing	727	http://www.avsim.com/	17

Better Late Than Never	Aircraft	The Team FS KBT F/A-18 Hornet package, with several variants included. Update also available.		fa18esh3_138105.zip fa18e231.zip (update)	Team FS KBT	McDonnell-Douglas	F/A-18 Hornet	http://www.avsim.com/	11
Better Late Than Never Department	Scenery	EDDW Bremen, Germany Airport with innovative detail including dynamic scenery objects.		eddw2k43.zip	Oliver Pabst	Germany	Bremen	http://www.avsim.com/	18
Better Looking Airports	Scenery	Airport environment upgrades to improve textures of buildings, runways, taxiways etc.	Airport Environment Upgrade 7.0 (AEU7) and others	aeu7.zip	Chris Arrington			http://www.avsim.com/	5
Blue Angels Website	Website	Link to the US Navy's Blue Angels aerobatic team website for information as well as downloadable screensavers, wallpaper and cursor replacements.						http://www.blueangels.navy.mil	18
Bonus File	Attachment	Splash screen of blimp over New York, included with the T&T download.							6
Bonus files!	Attachment	Animated aircraft graphics for adding to emails, use as desktop images etc.							13

Bremerton Airport Update	Scenery	Updated version of KPWT Bremerton Airport, Washington, with many structures built using Gmax.	Bremerton National 2005	kpwt05mi.zip	Mark Smith	United States	Washington	http://www.virtualpilot.net/	14
Building a Better Bridge	Scenery	Files to exclude the Champlain Bridge, Montreal, added by the FS9.1 update patch, and replace it with a more accurate version.		mtl_brdg.zip (requires also - excl_pont_champlain_fs91.zip)	Giles Gauthier	Canada	Quebec	http://www.normand.boucher.net/quebec/default_en.htm	14
But "Real Men" Don't Consult Maps!	Website	Short list of links to on-line map resources.							6
But I Can't Remember the ICAO Code!	Utility	Tool to find ICAO code on input of airport name. Runs with or without FS running.		icaosrch.zip	Xavier DePasquale			http://www.flightsim.com/cgi/kds/main/menuchoo.htm	9
But I Don't Want To Throw It Away!	Aircraft	Hint for making some FS2002 aircraft compatible with FS2004.							6
Bypass the Startup Screen!	FS performance	How to edit FS9.cfg to bypass the startup screen and go to the default flight. How to set a default flight. Updated in T&T 4.	Update - T&T 4 - "Twenty Lashes with a Wet Flightplan"					Update - T&T 4 - "Twenty Lashes with a Wet Flightplan"	3
Bypass the Startup Screen!	FS performance	Location and editing of FS9.cfg							3
Call of Nature	Scenery	Download scenery for Smiley Creek U87, Idaho.	Smiley Creek	u87.zip	Tom Fica	United States	Idaho	http://www.avsim.com/	4

Can the Obvious Be Too Obvious?	FS performance	Simple adjustment to brightness of cockpit instrument lighting.							14
CFG files and how to easily access them	FS performance	How to open Flight Sim's various .cfg files in Notepad for editing.							7
Changing Colors	Aircraft tweaks	Document explaining how to edit the colour of the registration displayed on FS aircraft.		regcolor1.zip	D.B. Robinson			http://www.avsim.com/	16
Changing the Default Startup Flight	FS performance	Step by step illustrated guide for setting a default flight.							10
Changing your Slew Speed	FS performance	Editing FS9.cfg to change movement speed in slew mode, for example during scenery editing.							8
Charting Your Course	Real world aviation	Links to sites for charts.						Refer to article	10
Charting Your Course	Scenery	List of water-based airfields in the US appearing in FS2004.		fs9_airports.zip	Winfried Orthmann			http://www.avsim.com/	10
Clarification	Aircraft tweaks	Qualified advice on editing some cfg files for aircraft while FS is running.							9
Clarification	Utility	Filename correction for program for capturing screen shots.	Snapshooter	ss211final_setup.zip	Johan Johanson			http://www.avsim.com/	16

Cloning Aircraft	FS performance	Required editing in addition to folder names when copying entire FS aircraft folders for purposes of modification.							15
Cloning Aircraft	Scenery	Package to add several very interesting view options to the default Cessna 172, to simulate views from various types of doors and windows.	Deckviews II	deckviews2.zip	Slim Tannor			http://www.avsim.com/	15
Collaboration is the Name of the Game	Scenery	Scenery enhancement for Coronado Bridge, San Diego, Cal., and a subsequent exclude file for default bridge.		corona_1.zip corobrex.zip	Robert Kerr, John R. Brooker	United States	California	http://www.flightsim.com/cgi/kds/main/menuchoo.htm	12
Collaboration is the Name of the Game	Scenery	Renaming scenery files to give them priority over others.							12
Collaboration is the Name of the Game	Scenery	American Cemetery in Normandy		maamcmty.zip	Bill Womack, Holger Sandmann, Mid Atlantic	France	Normandy	http://www.avsim.com/	12
Collaboration is the Name of the Game	Scenery	AFCAD to locate American Cemetery in Normandy		acnafcad.zip	Robert A. Baum	France	Normandy	http://www.flightsim.com/cgi/kds/main/menuchoo	12
Columbia River Gorge Fire Tower Locations	Attachment	Text file attachment in T&T 8 package with precise positions of fire towers in Holger Sandmann's Columbia River Gorge scenery							8

Computer Resources – the Life Blood of FS2004	Systems	Tutorial to create a Windows XP boot profile for Flight Simulator to disable unneeded hardware and peripherals.		profile_tutorial.zip	David "Opa" Marshall			http://www.avsim.com/	12
Computer Resources – the Life Blood of FS2004	Systems	Printed media article on use of system resources and effects of malware on PC performance.			Andrew Brandt			PCWorld Magazine, July 2005, page 164	12
Computer Resources – the Life Blood of FS2004	Utility	Program to shut down unneeded services and programs when starting FS2004, and to restart them on exiting FS2004.	FSAutostart	fsasv1111.zip	Ken Salter			http://www.avsim.com/	12
Computer Resources – the Life Blood of FS2004	Utility	Program to help decide which services to shut down when starting FS2004.		procexpnt9.zip				find.pcworld.com	12
Confused About File Extensions?	Website	Link to webpage explaining the meaning of various file extensions.						http://filext.com/	14
Conversion Tip	Website	Online currency converter.						http://www.oasisr	16
Cool Car	Surface vehicle	Driveable Formula 3 car for FS.		f3cards.zip	Dennis Simanaitis			http://www.flightsim.com/cgi/kds/main/menuchoo.htm	8
Creating More Disk Space	Systems	Using the Windows XP compression facility followed by defragmenting to regain hard disk space.							10

Dangling Extensions	FS performance	Changing file extensions when backing up, to avoid mishandling of files by FS9.							15
DC3 Tail Dragger	Aircraft	Howard 500 aircraft recommendation	Search for Howard 500 - for base pack,	hw5vc4.zip and others	Milton Shupe	Howard	500	http://www.avsim.com/	1
DC3 Tail Dragger	Aircraft tweaks	Enabling steerable tailwheel in DC3 or other taildragger by editing aircraft.cfg							1
Defrag	FS performance	Improving FS performance by defragmenting your hard drive.							4
Details - Details Details	Scenery	Details on the Asuka cruise ship in the Ogden Point, Victoria, British Columbia package includes an animated jogger on deck.		vicenh04.zip (also requires evi04.zip)	Jon Patch, Holger Sandmann	Canada	British Columbia	http://www.avsim.com/	14
Details - Details Details	Scenery	VFR scenery of Theme Park - 6 Flags Over Texas – which is south of the Dallas-Fort Worth airport – KDFW		6-flags-texas_kdfw.zip	Rick Connolly	United States	Texas	http://www.avsim.com/	14
Did You Know Department	FS performance	FS2004 saves the last flight details on exiting FS, and this can be accessed by selecting "Previous flight" from the flights menu.							6

Did You Know?	FS performance	Link to Microsoft form to report errors and faults in default FS2004.		rcbse				See "mailto" link in T&T 4	4
Did you know?	Scenery	Location of default Cape Canaveral / Space Shuttle scenery in FS9.				United States	Florida		3
Didn't We Fly Past That Cloud Ten Minutes Ago?	Navigation	Use of default FS tools and FS navigator.							4
Different File Names for the Same Scenery - Why?	Background	Explanation of why similar download packages have different names at different download sites.							8
Dinner Anyone?	Background	Illustration showing how onboard catering has changed since the days of the prop-liners.							14
Does This Look Familiar?	Humour	Link to a short but pertinent animation.						http://worteldrie.com/flash/emergence.swf	18
Door opening / closing - problem solved!	Aircraft tweaks	Common difficulties using the "Shift+E" plus numeric key to operate doors or engines fixed by installing a guage.	Selection Correction Guage	rcbse-10.zip	Rob Barendregt			http://www.avsim.com/	14
Double your Pleasure - Double your Fun	Systems	Link to site about multi-monitor gaming setups						http://graphics.to/mshardware.com/graphic/20040216/index.html	10
Drivers Education 101	Surface vehicle	Hints on using drivable cars in FS.							4

Duplicate AFCADs?	Utility	Utility to check for duplicated AFCADs which may cause conflicts with AI traffic etc.	Scan AFCAD	scanafd.zip	Eliot Rogers			http://www.avsim.com/	1
Duplicate scenery textures	Scenery	Utility which helps locate duplicated scenery textures to recover disc space.		find_all_duplicate_v2.3.zip	Gerard Durand			http://www.avsim.com/	1
Dust, Dust, Dust Everywhere	Aircraft tweaks	Editing the aircraft.cfg and using an effects file from the Lyons Grumman Goose to produce clouds of dust when landing on unsealed runways.		cc9g21f2.zip				http://www.avsim.com/	16
Dust, Dust, Dust Everywhere	Flight plans	Set of flightplans for Colorado Grass Strips.		coloradograss.zip	Slim Tannor			http://www.avsim.com/	16
Exceptional items	Utility	Utility to enable following of AI traffic, with a variety of options.	Traffic View Board	tvb_v2.1.zip	Arnt Helge Haland			http://www.avsim.com/	2
ExeBuilder Tip	Scenery design	Further information for the separate ExeBuilder Tutorial - a fix for an occasional problem.		excbld_tutorial.zip tutorial_correction.zip	David "Opa" Marshall			http://www.avsim.com/	16
Exploring Waterways	Website	Japanese site providing unusual pilotable land and water craft for FS, e.g.						http://f1.aaa.lived	5
Feel Like Starting Over?	FS performance	Location of original textures on the FS CD set if needed for backup.							9

Fireworks! Fireworks! Every Kid Likes Fireworks!	Scenery	Package to install fireworks displays at your choice of locations.		aworldofireworks.zip	Ron Jeffers			http://www.avsim.com/	9
Flight Training!	Website	Link to site specialising in learning to fly in flight sim. Includes downloadable training Cessna.				Cessna	182	http://www.navfltsm.addr.com/index.htm	14
Flyers Eye Test	Unclassified	A small perception test!							18
For Kids (of all ages)	Aircraft	The Nimbus flying broomstick (from Harry Potter)		stn2004.zip	Shigeru Tanaka			http://www.flightsim.com/cgi/kds/main/menuchoo.htm	3
For the Birds	Aircraft	Download of fully animated swans, either flyable or able to be used as AI.		Bird_SWAN.zip	Mitsuya Hamaguchi			http://www.bekkoame.ne.jp/i/m28hama/HammaField.htm	10
For Users of the LAGO FSE program only	Utility	Program to edit Lago FSE scenery objects.		fse_editor_2.zip	Steve Dunne			http://www.avsim.com/	8
Forum Tip!	Website	Hint to select notification of replies to your forum posts.							5
Frame Rate Blues?	FS performance	Modified autogen file to improve frame rates.		FPS_Patch_FS9.zip	Eddie Batista			http://www.surclaro.com	10
Frame Rate Blues?	FS performance	How to display frame rates on screen.							10

Frame Rates	FS performance	Setting target frame rates.							3
From One Extreme To Another	Aircraft	Firefly ultralight aircraft, in wheeled and float versions and a choice of paints.		kolb_firefly_1.zip and fix kfg.zip	Byron Warwick	Kolb	Firefly	http://www.avsim.com/	11
From the E-Mail Bag Department	Utility	Freeware program for capturing screen shots.	Snapshotter	ss211final_setup.zip	Johan Johanson			http://www.avsim.com/	15
From the E-Mail Bag Department	Utility	Freeware program for capturing screen shots.	FSScreen	fsscreen.zip	Matthias Holzer			http://www.avsim.com/	15
From the E-Mail Bag Department	Utility	Freeware full featured graphic program also able to capture screen shots.	Irfanview		Irfan Skiljan			http://www.irfanview.com	15
From the E-Mailbag Department	FS performance	How to have all FS aircraft load with engines off.							17
From the E-Mailbag Department	FS performance	Resizing and repositioning ATC window.							17
From the E-Mailbag Department	FS performance	Editing any saved flight in a text editor, including the default flight. Reverting to the default flight after saving another as default.							17
From the E-Mailbag Department	AI traffic	How to solve the problem of AI aircraft vanishing after landing, using AFCAD by Lee Swordy.	AFCAD		Lee Swordy				18

From the Mailbag Department	Background	Explains what the "file_ID.diz" files found in many FS downloads are about.							14
From the Mailbag Department	Background	Explains what the "fsfsconv" folder, sometimes appearing in the Flight Simulator aircraft folder, was used for.							14
From the Mailbag Department	Real world aviation	Interpreting the VASI runway approach lights and link to site for more information. Ability to add approach lights using AFCAD.						http://www.bayareapilot.com/vasiPAPI.htm	13
From the Mailbag Department	FS performance	Explanation of files ending with a .dat extension							16
Full Screen Look Alike	FS performance	How to use FS in windowed mode with menu bars hidden.							4
Fuzzy Runway Lights?	Scenery	Utility to provide sharper runway lights in flight sim.		rlights.zip	Holger Busekros			http://www.avsim.com/	14
Genealogy and Flying?	Scenery	Airport scenery for Prestwick EGPK, Glasgow, Scotland.		pik2004.zip pikpatch.zip	Iain Gallacher	Scotland	Glasgow	http://www.flightsim.com/cgi/kds/main/menuchoo	15
Get In On The Ground Floor!	Website	A German/English site with numerous downloads to enhance FS.			Juergen Haible			http://www.elbiah.de/flusi/	4

Gifts for Our Readers	Attachment	Two attachments to the issue, one being an animated Christmas .gif contrivuted by Erwin Henkel of Holstebro, Denmark, and the second an enhancement for the Cessna 182, provided by Sid Star of Amsterdam, Netherlands. which allows							17
Give Yourself a Present!	Aircraft	MAAM (Mid Atlantic Air Museum, Penn.) B-25 aircraft, "Briefing Time", for FS2002 or, with upgrades, for FS2004. Payware.			MAAM	North American	B-25 Mitchell	http://www.maaam.org/	3
Give Yourself a Present!	Scenery	Scenery of Reading, Penn. Airfield and Midwest Air Museum.		krdg-fs9.zip	Bill Womack, Kenneth Weik, Charles Dayhuff	United States	Pennsylvania	http://www.avsim.com/	3
Go North Young Man	FS performance	Quick trick to orient aircraft to north in slew mode - hit the spacebar.							14
Gone, But Not Forgotten	Aircraft	Martin 404 airliner by Dee Waldron	Browse menu on site - various		Dee Waldron	Martin	404	http://www.calclases.com/	8
Gone, But Not Forgotten	Website	The California Classics website, specialising in historical airliners and scenery.						http://www.calclases.com/	8

Good things DO Come in LARGE Packages!	Scenery	Scenery of Thunder Bay, Ontario, Canada. NB - large but detailed download		thunderbay2.zip	Flight Ontario	Canada	Ontario	http://www.avsim.com/	5
Guage Removal Program	Utility	Program to sort and remove unused guage files from the FS Guages folder.	DR.GUAGE	drg32.zip	Alessandro Antonini			http://www.avsim.com/	10
Guages	Utility	Utility to remove (or backup) unused guages from the FS guages folder.		GuageClean4.zip	Scott Campbell			http://fsflightdeck.com/	2
Happy Birthday!	Background	Reminder that 2005 marks the 70th Anniversary of the Douglas DC-3. A commemorative FS9 splash screen is included with the T&T 15							15
Have You Ever Seen an Elephant Fly?	Flyable animals	You can fly a flock of geese, a bald eagle or sail a killer whale. Includes some preset flights.	FS9 Animal Simulation 1	animalsim1.zip	Ron Jeffers			http://www.avsim.com/	13
Have You Ever Seen an Elephant Fly?	Flyable animals	A flyable Godzilla monster.	GodziLLa	godzilla.zip	Ron Jeffers			http://www.avsim.com/	13
Helicopter Pilot In Training?	Aircraft	Agusta helicopter recommended for easier landings using its wheeled gear.		Gmax_Agusta_109.zip		Agusta	109	http://www.hovercontrol.com/	7

Helicopter Pilot In Training?	Scenery	Hints on learning to handle helicopters in FS.	Airport Environment Upgrade 7.0 (AEU7) and others	aeu7.zip	Chris Arrington			http://www.avsim.com/	7
Helicopters 101	Utility	Utility providing automatic hover and other useful modifications to FS helicopters.		206mod.zip	Robert Hawk			http://www.flightsim.com/cgi/kds/main/menuchoo.htm	5
Help Is On The Way!	FS performance	Accessing FS help files directly from desktop.							12
Historic Aircraft	Aircraft	Detailed model of the classic German trimotor transport.		junkers_52_v1.5.exe		Junkers	Ju-52	http://www.junker	15
Historic Aircraft	Aircraft	Detailed model of the German wartime biplane trainer.		buecker_131_v1.exe		Bucker	Jungmann	http://www.junker	15
Historic Aircraft	Website	Link to <i>The Ju-52 Factory</i> website, giving history and details of the wartime trimotor transport used by the Luftwaffe.	The Ju-52 Factory			Junkers	Ju-52	http://www.ju52-3m.ch/about.htm	15
Historic Aircraft	Website	Link to short history of the Ju-52 from the Spanish Civil War to WW2.				Junkers	Ju-52	http://www.constable.ca/ju52.htm	15
Historic Aircraft	Website	Link to museum website with images and history of the classic German biplane trainer, the Bucker Jungmann.				Bucker	Jungmann	http://www.fantasyofflight.com/aircraftpages/jungmann.htm	15

Ho hum ...	Website	Link to FS-shipyards website, offering pilotable ships.						http://fs-shipyards	3
Holiday Fun	Aircraft	Harry Potter's steam-powered, bat-winged flying machine.		uabat.zip uabflap.zip	Kevin Bryan / Unreal Aviation			http://www.flightsim.com/cgi/kds/main/menuchoo.htm	16
Holiday Fun	Aircraft	US Navy radar blimp with civilian paints.		uas4.zip	Kevin Bryan / Unreal Aviation	US Navy	Blimp	http://www.flightsim.com/cgi/kds/main/menuchoo.htm	16
Holiday Ideas	Aircraft	Flyable Santa's sleigh.		sleig2aj.zip	Andy Johnston	Santa	Sleigh	http://www.flightsim.com/cgi/kds/main/menuchoo.htm	17
Holiday Ideas	Scenery	Santa's new headquarters in Canada, including out-of-season closure of premises.		santavaj.zip	Andy Johnston	Canada	Santa's Workshop, Churchill Manitoba	http://www.flightsim.com/cgi/kds/main/menuchoo.htm	17
Holiday Ideas	Aircraft	Santa Express paint of the Eric Cantu / FFX Boeing 737-300.		ffx_b737_300_santa_express.zip	Leigh Green / FFX / Eric Cantu	Boeing	737-300	http://www.avsim.com/	17
Home, Sweet Home	Scenery	Detailed scenery with effects of the Carry-Barville Castle, France.		barville.zip	Frédéric Picci	France	Durdent Valley	http://www.avsim.com/	15
Home, Sweet Home	Scenery	AFCAD for Carry-Barville castle, France.		Castle_Afcad.zip	David "Opa" Marshall	France	Durdent Valley	http://www.avsim.com/	15
Hooked on Simming	Attachment	Files to add aircraft themed cursor	Included in T&T 4 package						4

How Safe is Safe?	Background	Short explanation about virus security on FS downloads, the checks in place at established sites and occasional false alerts raised by anti-virus software.							10
Humour Department	Humour	Joke. I won't spoil the punchline.							6
Hurricane Hunter	Aircraft	WP-3D Hurricane Hunter version of of the Lockheed Orion.		wp3dvol6.zip	Daisuke Yamamoto, Hiroaki Kubota	Lockheed	WP-3D	http://www.avsim.com/	15
I am Seeking Investors!	Humour	Introducing the ANS navigation system.							15
I Can Fly Anywhere!	Utility	File which creates a huge "pipe" to fly through as a training course. (Update re downloading is in T&T issue 7)	Training Course	courseaj.zip	Andy Johnson			http://www.flightsim.com/cgi/kds/main/menuchoo.htm	6
I Didn't Know You Could Do That Department	Aircraft	Classic pre-war British biplane flying boat.	Short S.17 Kent 'Scipio' Class Flying Boat	s17_v1.zip	Jens B. Kristensen	Shorts	S.17 Kent	http://www.avsim.com/	13
I Didn't Know You Could Do That Department	FS performance	Using map view to generally reposition aircraft in flight sim, or to place flying boats or water craft onto water.							13
I Know the "Engines Are Not Running"!	FS performance	How to turn off unwanted flying tips.							7

Identifying AI Traffic	AI traffic	Changing the FS settings which display identifying text tags on AI traffic which is in sight of your aircraft.							10
Important Scenery Information Update!	FS performance	Capacities of FS2002 and FS2004 for additional sceneries. Location and role of language.dll file							7
Important Update for FSNavigator Users!	Utility	Link to FSNavigator site to download latest version of the program.	FSNavigator	fsnav470.zip				http://fsnavigator.com/index.htm	13
In a Hurry?	FS performance	How to begin a saved flight directly, without first starting up Flight Simulator.							18
In Case You Are Wondering Department	Author	Author's non-association with any FS site, program or author.							5
In Case You Missed It	Scenery	Tutorial on adding an animated windsock which responds to wind speed and direction.		windsock_tutorial.zip	David "Opa" Marshall			http://www.avsim.com/	14
In Case You Missed It Department	FS performance	A short tutorial download explaining how to create a simple menu of your favorite flights that will allow you to go directly to that flight, and bypass all of the normal startup screens.		favorite_flights_menu.zip	David "Opa" Marshall			http://www.avsim.com/	10

In Case You Missed It Department	Scenery	Updates to Holger Sandmann's <i>Columbia River Gorge</i> scenery.		crg_upd1.zip	Holger Sandmann and Larry Silsbee	United States	Washington	http://www.avsim.com/	11
In Case You Missed It Department	Scenery design	FAQ document for the Runway 12 (RWY12) Object Placer.		rwy12_object_placer_faq.zip	David Marshall, Gary Mills, Charles			http://www.avsim.com/	9
In Case You Missed It Department	Aircraft tweaks	Package to add altitude callouts to aircraft, and an update reducing the volume to a more appropriate level.		altitude_callout.zip and reduced_fpda_callouts.zip	David Marshall			http://www.avsim.com/	18
In Search of Realism Department	AI traffic	Set of AI paddle wheel vessels for the Mississippi River. Available at		ai_river_queen.zip	M. Allen Richards			http://www.avsim.com/	8
In Search of Realism Department	Scenery	Detailed scenery for Bacolod Airport in the Philippines. Has dynamic components.		gmax_bacolod_v2005.zip	Ver Walter Gulfan	Philippines	Bacolod	http://www.avsim.com/	8
In Search of Realism Department	Utility	A program to play ATC radio chatter, customisable to change with locality, range etc. Update file also needed.	FSChatter	fsc265.zip fsc265u.zip	Dave Westbury			http://www.avsim.com/	8
In Search of Realism Department	Website	Link to site for AI Flight Creator and other FS utilities.	Dave Westbury's FlightSim		Dave Westbury			http://ca.geocities.com/diqwest2002@rogers.co	8
Interior Decoration	Panels and gauges	Tutorial on changing nighttime lighting on panels, including some panel icons.		cockpit_lighting.zip (CkpL_Tut.zip at Flightsim.com)	David "Opa" Marshall			http://www.avsim.com/	17

Is Your Monitor Stuttering?	Utility	Download allowing PCI latency to be set to prevent stuttering in high-end setups.						http://downloads.guru3d.com/download.php?det=951	11
It Ain't Necessarily So!	Scenery	Ability to use sceneries designed with Runway 12 (RWY12) enhancer without having RWY12 installed. Listing of RWY12 additional libraries.		Rwy12_V1.1.zip				http://www.avsim.com/	12
It's FREE ... Or Is It?	Editorial	Reminder that someone has to pay for the "free" FS websites, and how some depend on hits or sales at sponsor sites.							6
It's Only Money!	Real world aviation	Introduction to the real-world fly-in community of Jumbolair, near Ocala, Fl. and to John Travolta's Greystone residence and aircraft fleet, including a Boeing 707 in Qantas livery.						http://www.jumbolair.com/jumbolair.htm	18
It's Only Money!	Scenery	FS2004 scenery depicting Jumbolair, near Ocala, Fl., including John Travolta's residence .		dbwsimgreystone05.zip	Derek Web, Brendan Webb			http://www.avsim.com/	18
Jetways	Scenery	Package to add jetways to those airfields lacking them in the default version.		FS9JETS.ZIP	Patrick Finch			http://www.avsim.com/	4

Just Passing By	Utility	Add-on to enable a fly by view of user or AI aircraft in tower mode.	Fly By Module	flyby20.zip	Valery Stenin			http://www.avsim.com/	16
Just What does ICAO Stand For?	Real world aviation	Explanation of the common term for the Canadian based organisation which sets various international transport standards.							9
Keeping in Shape	Systems	Link to forum thread about enhancing Windows XP performance, which in turn may improve FS performance.						http://forums.avsim.net/dcboard.php?az=show_mesg&forum=197&topic_id=2504&mesg_id=2504	11
Keyboards for sale!	Humour	A keyboard innovation to answer a widely-felt need...							13
Kiosk Mode	Systems	How to set Flight sim to run for a preset time without running the risk of having someone changing settings. This is similar to commercial kiosk setups in shops and offices.		kiosk.exe and kiosk.rtf				Included in main FS9 folder.	17
Knowledge Test	Background	A short question - useful for after-dinner quizzes.							7
LAGO	Scenery	Link to Lago site for Lago FSE (or FSSE and FSSC in FS2002)		See options on site	Lago			http://www.lagosim.com/default.asp?lang=eng	1

Less is Better!	Aircraft	Combining textures from aircraft using same base model into one folder (I.e. adding textures to base folder instead of separate installations).							4
Let it Snow	Scenery	A fictional vintage airstrip in Alaska with custom sounds and an effects pack to enable blowing snow during the Fall and Winter seasons as well as blowing dust at the start of Spring. Lago FSE optional but not compulsory.	Schwenz Vintage 1938	schwenz_1938_vintage_air-strip.zip and schwenz_vintage_air-strip_enhancement_fix.zip	Mike Woolsey	United States	Alaska	http://www.avsim.com/	17
Let's Go "Barnstorming"	Scenery	Scenery of a rural barn with both ends open, for adventurous pilots to fly through.		buzzbarn.zip	Danny Levin			http://hovercontrol.com/	8
Let's Go Hunting!	Scenery	Elk camp scenery on Mt. Hood, Ore. Two versions, one default, one for Holger Sandmann's "Columbia River Gorge" scenery.		Elk_Camp_2005.zip or Elk_Camp_2005_cg_fix.zip	M. Allen Richards	United States	Oregon	http://hovercontrol.com/	6
Let's Go Sightseeing!	Scenery	Scenery of Columbia River Gorge, including navigable river.		cr_gorge.zip	Holger Sandmann	United States	Oregon Washington	http://www.avsim.com/	5
Let's Go Sightseeing!	Scenery	Scenery of Sydney Harbour, Australia.		syd2004.zip	Clive Marriott	Australia	New South Wales	http://www.avsim.com/	5
Let's Go Sightseeing!	Scenery	Statue of Liberty, NY, scenery.		statueofliberty.zip	Daniel Buechter	United States	New York	http://www.avsim.com/	5

Lets Hear It for the Lady!	Aircraft	Display scheme for the Stearman reviewed in T&T 9, and some real-world background.		stear_pk.zip at AVSIM	Manfred D.Saliger	Boeing	Stearman	http://www.wing-walkers.com	15
Lighting Upgrade	Scenery	Night light environment upgrade packages.		une.zip (Flightsim.com) neu.zip (AVSIM)	Maurice Roenick			http://www.avsim.com/	14
Lights - Camera Action!	Aircraft tweak	Enhancement to the panels of the default FS2004 Lear 45 and Boeing 737. The author adds his own version of the amendments to his configuration.		fs9ewl.zip	Ulrich Klein			http://www.flightsim.com/cgi/kds/main/menuchoo.htm	10
Links to My Uploads	Website	Link to files uploaded by David Marshall at AVSIM			David "Opa" Marshall			http://library.avsim.net/eseach.php?CatID=fs200	6
Little Known Scenery	Scenery	Demonstration download of Eaglesoft FBO sceneries for VIP terminals at some US airports.	Eaglesoft FBO Scenery by Michael Carr		Michael Carr	United States		http://www.eaglesoftdg1.com/downloads.htm	3
Little Known Scenery	Scenery design	Eaglesoft Hanger Kit to place hangars with opening doors at airfields. Available at Eaglesoft or AVSIM sites.	Eaglesoft Hanger Kit					http://www.avsim.com/	3

Lobster Anyone?	Scenery	Update of an entertaining FS2002 scenery, intended primarily for use in Golden Wings 3, of a beach gathering, encouraging a drive by accompanying scenery items to the site via the road from Bar Harbor airfield.	Maine Lobster Fest	msh_ff1.zip and msh_ff1ud1.zip	Leon Louis	United States	Maine	http://www.avsim.com/	17
Lobster Anyone?	Scenery	Scenery of a small coastal airport convenient to the author's Maine Lobster Fest scenery.	Bar Harbor Airport	msh_ff3.zip	Leon Louis	United States	Maine	http://www.avsim.com/	17
Lobster Anyone?	Scenery	A scenery of a prohibition-era still hidden in the mountains, suitable for the Golden Wings 3 FS9 enhancement.	McTavish's Still	msh_ff2.zip	Leon Louis	United States	Maine	http://www.avsim.com/	17
Lobster Anyone?	Surface vehicle	Driveable classic 1951 Volkswagen Beetle.		vwrprf.zip	Rainer Girbig	Volkswagen	Beetle	http://www.flightsim.com/cgi/kds/main/menuchoo	17
Longevity	Real world aviation	Retirement of Southwest Airlines' last Boeing 727.							4
Look Ma, No Brakes!	FS performance	How to remove the red "brakes" message from the FS screen by editing the FS9.cfg file.							4

Look to the Stars	Scenery	Notes on the changes to the "Big Dipper" star constellation, and making the connecting lines in the constellation visible by editing the FS9 stars.dat file.							13
Lost Your Voice?	FS performance	How to locate and restore original ATC voice files, if lost, from the FS2004 CDs.							11
Make A Little History Yourself	Utility	Flying the historical adventures provided with FS9, and a tutorial on using an onboard map in conjunction with the flights.		VFR_Map_Tutorial.zip at AVSIM: VFRMpTut.zip at Flightsim.com	Richard J. Parrish			http://www.avsim.com/	15
Make an Executive Decision!	FS performance	How to set up multiple start-up configurations for FS9.							15
Making Niagara Falls Come Alive!	Scenery	Files to add sounds to landmarks such as Niagara Falls, Mount St. Helen's and Victoria Falls using the payware Lago enhancer (FSE).		wldsnds1.zip	Lou Frost	United States and other		http://www.avsim.com/	12
Making Room	Utility	Allows you to separate the traffic inbound to an airport defining a set of parameters like minimum separation, desired separation, and reduced separation zone.	AI Separation	fsaisv1.1.zip	Armando Di Francesco			http://www.avsim.com/	17

Meet the Compiler	Author	Short autobiographical sketch of David Marshall, author of the <i>Tips & Tricks</i> series.							11
Memory Leak?	FS performance	Explanation of the term "memory leak", its causes in FS and how to minimise the effect, particularly by removing unneeded texture folders for landclass.							16
Missing a DLL?	Website	A website providing downloads of a great variety of DLL (Dynamic Link Library) files.						http://www.dll-files.com/	17
Missing jetways?	FS performance	Default airport jetways depend on scenery density setting.							2
Mission Impossible?	Scenery	Series of highly detailed scenery downloads for California mission buildings.		slreym1.zip and others	Ron Ezra	United States	California	http://www.avsim.com/	4
More Creative Scenery	Scenery	Scenery of Victoria, BC harbour with AI helicopter and shipping.		vicenh04_files.zip	John Patch	Canada	British Columbia	http://www.avsim.com/	8
More Exceptional Aircraft	Aircraft	De Havilland Dove light propellor transport with three liveries, includes panel by Saverrio Maurri.		dh104v1.zip	Derek Palmer, Saverrio Maurri	De Havilland	DH104 Dove	http://www.flightsim.com/cgi/kds/main/menuchoo.htm	18

More Exceptional Aircraft	Aircraft	Light aerobatic biplane, the Christen Eagle II, with sounds by Aaron Swindle. Virtual cockpit only. T&T advice on adding smoke effects.		liceagii.zip	Long Island Classics Design Team	Christen	Eagle II	http://www.avsim.com/	18
Mountain Wars	Scenery	Availability of two different sceneries for Mount St. Helens, Wash., and how to merge the two if desired.	Mt. St. Helens Flight Experience	mtsthelensscenery_156466.zip (previous version; mshscenery.zip)	Steven Rosenow	United States	Washington		8
Mountain Wars	Scenery	Availability of two different sceneries for Mount St. Helens, Wash., and how to merge the two if desired.	Columbia River Gorge	cr_gorge.zip	Holger Sandmann	United States	Oregon Washington	http://www.avsim.com/	8
Move Scenery & Aircraft Easily	Aircraft Scenery	Techniques for installing aircraft and scenery additions.							4
Must have file	Utility	Reference to scenery design site, which includes downloads such as the "No CD" patches.						http://www.scene	2
Must have textures	Scenery	Reference to source for essential common scenery textures	Refer to site	Refer to site	Various			http://www.flightsim.com/cgi/kds/main/menuchoo	1
Must haves	Utility	FSNavigator for using flight plans	FSNavigator	Select on site	FSNavigator			http://fsnavigator.com/index.htm	1

Must haves	Utility	Fix for some scenery errors in default FS2004	Default Scenery Fixes for Two Massive Holes and Four Other Errors	six_default_fixes.zip	Joshua Robertson			http://www.avsim.com/	1
My favourite add on sceneries	Scenery	Author's choice of FS2004 sceneries							1
Mystery Solved!	Aircraft	How to respond to the "Aircraft you are attempting to load is not fully compatible..." error message, to enable some FS2002 or other aircraft to function in FS2004.							7
Mystery Solved!	Website	Website dedicated to Mirage military jets for FS.			Frank Safranek	Dassault	Mirage	http://www.mirage4fs.com	7
Nag - nag -nag!	FS performance	Strong advice - always backup files before changing or overwriting.							3
Navigation aide	Utility	Additional guage to locate and set details for ILS approaches		rwyinfog.zip	Ernie Alston			http://www.flightsim.com/cgi/kds/main/menuchoo..	1
Need Something to Occupy Your Time on Long Flights?	Real world aviation	Website for Hartsfield (Atlanta) Air Traffic Control, enabling visitors to hear and see (slightly delayed) ATC online. Needs latest version of Windows Media Player						http://www.atcmo	7

Never Too Old to Learn Department	FS performance	Use of ALT key to toggle menu bar.							4
Never Too Old to Learn Department	Website	Website providing maps and aerial views of US locations, helpful in scenery design.						http://terraserver-	5
New Source for Scenery	Website	Link to Heather Sherman FS download site.			Heather Sherman			http://fly-heather.avsim.net/index.html	6
New Years Resolution?	Systems	Use of some old 3D glasses for television may add 3D effect to Flight Sim.							18
Nighttime Feedback	Systems	Safety issues with leaving monitors on overnight.							17
Now That's Refreshing!	FS performance	Ability to refresh scenery while running FS using an assigned key.							13
Now Who Put That There?	Scenery tweak	File to remove orphan coastlines from the Great Lakes.		grt_lks_sndbr__fix.zip	Garvin Barnicoat			http://www.avsim.com/	15
Now You See It, Now You Don't!	Utility	Utility to create screen-savers from saved FS movie.		SSaver.zip				http://www.avsim.com/	5
Numbers	Attachment	Number pronunciation guide, as used in radio communication. Separate attachment in T&T 8 package.							8

Number Please	Aircraft	Robin 3000 aircraft with innovative panel guage to facilitate ATC messages in FS9.		robin3k3.zip	Nick Pike, Matthias Lieberecht	Avions Robin	Robin 3000	http://www.avsim.com/	16
Ok, I Give Up - What Is It?	Scenery design	Announcement of (now released) tutorial on inserting invisible runways into FS (for reasons such as navigation).	Creation of an "Invisible Runway" - a Step by Step Illustrated Tutorial	invisible_runway.zip	David "Opa" Marshall			http://www.avsim.com/	7
One Final Idea Regarding "Stuttering"	FS performance	Changing BIOS at boot may stop stuttering in FS on high-end machines.							12
One More AI Idea	AI traffic	Utility to make AI aircraft perform holding manouvers rather than "go around" on crowded approaches.		aismooth_v100.zip	Michael Sagner			http://www.avsim.com/	11
Only God Can Make a Tree	Scenery design	Program to insert trees into scenery.	Tree Planter	treeplanter_v3.zip	George Davison			http://www.avsim.com/	3
On or Off?	Humour	A short online demonstration of what might happen if your PC is left on overnight.						http://www.justracin.net/is.swf	16
On the Lighter Side	Humour	Some humorous contributions from T&T readers.							18

Organise your AFCADs	Scenery	How to store AFCAD files to enable better management of updates and changes.							7
Other Recent Scenery Releases	Scenery	Detailed scenery of the Bermuda Islands, airport, VFR objects and surface traffic.	FreeFlow Bermuda	ffbm1.3.zip	Scott Gridley	Bermuda		http://www.avsim.com/	15
Other Recent Scenery Releases	Scenery	Victoria, BC Harbour scenery.		vicenh05.zip	Jon Patch, Holger Sandmann	Canada	British Columbia	http://www.avsim.com/	15
Other Tutorials of Interest	Aircraft tweaks	Tutorials on tweaking the kneeboard display, and adding Nav and ADF radios as popup windows.		kneeboard_display_tutorial.zip adding_tuners.zip	David "Opa" Marshall			http://www.avsim.com/	16
Panel tip	Aircraft tweaks	Process to arrange position of pop-up cockpit panels by editing panel.cfg							1
Pardon My Smoke	FS performance	A way of increasing the touchdown smoke puffs for some aircraft by editing the aircraft.cfg.							4
Personal "Wish List"	Editorial	Author's comment on the lack of an aircraft towing an advertising banner in FS.							7
Pet Peeves	Editorial	A request to designers to include contact details with uploads.							4

Phonetic Alphabet	Attachment	Graphic list of phonetic alphabet, as used in radio communication. Separate attachment in T&T 8 package.							8
Planning a Trip?	Utility	A simple fuel calculation utility with data on the default FS aircraft and the ability to add others, requiring input of flight distance plus a factor for "excess distance".		fcv1bd05.zip	Bracken Dawson			http://www.avsim.com/	18
Planning a Trip?	Utility	Fuel calculation utility specifically for the Boeing 737, which also loads the calculated fuel amount.		b737fpl14_install.zip	Milan Puta			http://www.avsim.com/	18
Power Users Tip	FS performance	Link to forum item on how to edit FS9.cfg, especially terrain vertex level.						http://forums.avsim.net/dcboard.php?az=show_mesg&forum=177	4
Practice, Practice, Practice	Aircraft	Preset flights package to practice landings in a Boeing 737, 747 or 777.		presetlandings.zip	Stavros Kokkinos			http://www.avsim.com/	16
Practice, Practice, Practice	FS performance	How to preview a saved flight by opening and viewing the "flight" file.							16
Practice, Practice, Practice	Scenery	Adding an ILS to an airport which has no pre-existing ILS.							16

Problems stopping large jets after landing	Utility	Utility to enable editing .air files, including thrust reversal.		aired.zip				http://www.avsim.com/	1
Pushback - Taxi Speed Guage	Aircraft tweaks	Guage with taxi and pushback as well as other functions.		rcbgh-32.zip	Rob Barendregt			http://www.avsim.com/	3
Putting On The Brakes	Aircraft tweaks	Editing aircraft.cfg to increase brake effectiveness.							12
Raising the Bar – Again!	Aircraft	Cirrus light GA aircraft, which includes the airframe parachute system present on the real aircraft.		cirrus2six.zip	Wolfram Beckert, Guenter Kraemer, Thomas	Cirrus	Cirrus	http://www.avsim.com/	14
Raising the Bar – Again!	Aircraft	One of the classic aircraft packages released by Bill and Lynn Lyons, includes several versions of the Travel Air biplane as well as scenery features including animated steam trains.		cc10taf.zip	Bill and Lynn Lyons	Travel Air		http://www.avsim.com/	14
Realism 101	Real world aviation	Cigarette lighters cannot be carried on airliners...							9
Reality check	Humour	A short series of questions for those who remember when modern phrases meant something quite different.							10

Sailplane lover?	Aircraft	Link to site for FS sailplanes						http://www.fsglider.de/frset_e.htm	2
Save the Trees and Money!	Utility	Shareware printing utility to allow options of printing two reduced pages on a single sheet, double sided printing, printing without graphics etc.	FinePrint	fp545.exe				http://www.fineprint.com/	16
SCAM ALERT !!	Security	Warning of a variation on the common fraudulent email scams which ask the recipient to update their credit card data.							17
Scenery	Scenery	Maximum capacity for number of sceneries in FS2002 and FS2004.							1
Seeing Double?	Panels and guages	A dual panel for the default Beech King Air allowing movement between the pilot and copilot positions at the flick of a switch.		beech_king_air_dual_panel_update.zip	Rick Milne			http://www.avsim.com/	18
Silver Wings	Scenery	A set of attractive replacement scenery textures, especially designed for those who like to fly "low and slow". Includes also a set of seven weather themes.		slvrwngs.zip	Lynn and Bill Lyons			http://www.flightsim.com/cgi/kds/main/menuchoo.htm	17

Simply Elegant!	Aircraft	Eastern Airlines Boeing 727-200 package including 14 paints in two versions.		eastern_727-200_package.zip	Peter Liddell, Gaby Carlson, Erick Cantu	Boeing	727	http://www.avsim.com/	15
Sit Back and Relax!	Utility	A utility enabling the user to enjoy the view from a variety of windows in imaginary buildings.	FS2004 Virtual Windows	windows9.zip	Gene R. Ferrier			http://www.avsim.com/	7
Slew Command Chart	FS performance	A chart of keyboard commands for use when slewing (manually shifting) an aircraft in FS.							7
SLEW Down!	FS performance	How to vary the slew speed of aircraft in FS9.							15
Slow Down and Smell the Roses!	FS performance	Using keyboard controls to speed up or slow down simulation rates.							5
Smokejumpers	Aircraft tweaks	Add parachutists to aircraft, operable using the smoke key. Also suggests how to find other		smkjmp2.zip	Heather Sherman			http://www.avsim.com/	17
Sneak Preview - And It's a Double Feature!	Scenery	Description and link to preview videos of FREEflow Florida scenery.			FREEflow Team - Bob Brown, Scott Gridley and Joe Watson	United States	Florida	http://www.dartmouth.edu/~gridlock/free_flow_florida.wmv	10
Snoop around!	FS performance	Reference to the News screen in FS as a lead to various development tools to enhance system.							2

Snooty Aircraft	Aircraft	Various ways to correct an unduly nose-up attitude in an aircraft.							6
Snow Bird?	Scenery	Key West KEYW Airport, Florida, specifically for FreeFlow Florida scenery.		fffl_eyw.zip	JC McCormick	United States	Florida	http://www.avsim.com/	17
Some Thoughts Regarding a Clean Re-Install of FS2004	FS performance	Some hints when reinstalling FS2004 from scratch, based on the author's experience, including creation of a log of all installed extras.							14
Soo Sault Marie Locks - Scenery	Scenery	Soo Locks scenery, between Michigan and Ontario, including the locks, rail bridges and other features. Available from AVSIM or the author's own site.		sault_saint_marie.zip	Jim Bosworth, Al Heline	Canada United States	Ontario Michigan	http://www.bozair.com/	14
Sound Stuttering?	Systems	Using DXDIAG to reset Sound Acceleration on your PC to improve Sound performance.						http://downloads.guru3d.com/download.php?det=951	11
South of the Border	Scenery	Sceneries for Panama - terrain mesh and the Panama Canal.		panama-mesh.zip panamacanal.zip	Jozef Kusters Winfried Orthmann	Panama	Panama Canal	http://www.avsim.com/	4
South of the Border	Scenery	Airport scenery for Tocumen International Airport MPTO, Panama.		mpto_40.zip	Andres Valenzuela O	Panama	Tocumen International Airport	http://www.flightsim.com/cgi/kds/main/menuchoo...	4

Speaking of guages	Utility	Adds panel icon to bring up small chase view window.		chase_view.zip	Barry Blaisdell			http://www.avsim.com/	2
Speaking of Maps!	Utility	FS Moving Maps utility, which enables sectional maps to be viewed on the pilot's kneeboard in FS.	FS Moving Maps	fsmmm120.zip	Rana Hossain			http://www.avsim.com/	6
Speaking of Maps!	Utility	Sectional maps for FS Moving Maps		us_sectionals_pack2.zip and others	Matt Fox			http://www.avsim.com/	6
Speaking of On-Going Projects	Scenery	Work in progress of scenery for Spokane, Wash. Available AVSIM and several packages at Flightsim.com		Looff.zip	Lou Frost	United States	Washington	http://www.flightsim.com/cgi/kds/main/menuchoo.htm	8
Speaking of On-Going Projects	Scenery	FSGenesis West Coast package scenery mesh. Large download.		fsgwst38.zip		United States		http://www.flightsim.com/cgi/kds/main/menuchoo.htm	8
Speaking of Videos	FS performance	Using the flight video option in FS2004, including changing views during video playback and							17
Specialized Aircraft	Aircraft	As a change from other types, try the Air Tractor AT-802 crop duster.		at-802a_duster.zip	Brian Gladden	Air Tractor	802	http://www.avsim.com/	7
Star Gazers Update	Utility	Utility to load all stars visible for the naked eye, with ability to display various densities in the night sky.	Real Stars v1.1	rlstar04.zip	Norbert Pachner			http://www.download.com/Flight-Simulator-2004-A-Century-of-Flight-Real-Stars	14

Startup Smoke Enhancement	Utility	Enhancement to startup smoke effect on the DC-3, applicable to other aircraft. Also new detailed contact points for that aircraft. Available AVSIM and Flightsim.com		dc3_fx.zip	Jan Rosenberg			http://www.avsim.com/	10
Stay In Control!	FS performance	Action to remedy accidental loss of joystick control from hitting Control K.							15
Steering on Water	Aircraft	How to steer amphibians and floatplanes on water in FS.							8
Step Back in History	Aircraft	1900's Antoinette VII monoplane.		antoinette.zip	Joe Binka	Antoinette	Type VII	http://www.avsim.com/	4
Step Back In Time	Website	Notice of release of "Golden Wings 3", which converts standard FS2004 to a 1920s - 1930s version.			Golden Wings team			http://windrfters.com/	14
Step Saver	Scenery	Shortcut to disabling (rather than deleting) an installed scenery. Brief summary of how FS indexes sceneries.							11
Still bored?	Website	Link to Workman Publishing website, with instructions on building and flying a paper plane.						http://www.workman.com/fliersclub/	13

Summer Vacation Plans?	Scenery	Flying tour of the Appalachian Trail in the Eastern U.S. Available at AVSIM or Flightsim.com. Links to sites providing maps and information about the Trail.		ffat_v10.zip	Scott Gridley	United States		http://www.avsim.com/	9
Surf the Web While You Fly?	Utility	Accessing the web either by configuring the FS9 News option or by using an addon program.		fsbrowser10.zip	HiFi Simulation Software			http://www.avsim.com/	12
T and T Info	Attachment	Where to find previous issues of T&T	Began to be included from T&T 4 onwards.						4
Take a Brake	FS performance	Replacement for the FS2004 default language.dll file to abbreviate the default brake messages which may otherwise be intrusive.		braketext.zip	Brent Hricziscse			http://www.avsim.com/	18
Take a Brake	Panels and guages	Parking brake toggle switch guage, in two colours and with indicator light, to add to aircraft panels.		pkbrk1.zip	Glenn Copeland			http://www.avsim.com/	18

Teamwork	Scenery	Hartford-Brainard Airport in Hartford, Connecticut – KHFD. This includes a new AFCAD, taxiway signs for non-towered airports, RWY12/scenery enhancement, and GA AI traffic for the airport.		project_upgrade_khfd.zip	David Strate, Jason Miller, Dan Webb and Matt Patenaude / Project Upgrade	United States	Connecticut	http://www.avsim.com/	17
Teamwork	Scenery	KWST - Westerly State Airport, Rhode Island and KUUU - Newport State Airport, Rhode Island			David Strate, Jason Miller, Dan Webb and Matt Patenaude / Project Upgrade	United States	Rhode Island	http://www.avsim.com/	17
Test Your Knowledge	Background	Short question for after dinner quiz games!							6
Test Your Knowledge!	Background	Quiz question - who flew first?							12
Test Your Perception	Background	Visual test for potential FedEx employees.							11
The Difficult We Do Now – the Impossible Takes a Bit Longer!	AI traffic	Enables AI gliders in FS9, and includes an AI sailplane, an example AI field, and instructions to set up AI glider flights at locations of your choice.	AI Gliders	ai_gliders_for_fs2004.zip	Bert de Bruin			http://www.avsim.com/	13

The Difficult We Do Now – the Impossible Takes a Bit Longer!	Aircraft	Slingsby T21 glider, popular as a trainer; numerous repaints are available.	Slingsby T.21b (TX1 Sedberg) "Barge" Training Glider	t21b.zip	Rick Piper, Saverio Mauri	Slingsby	T21b	http://www.avsim.com/	13
The Fleet Is In Town!	Scenery	VFR scenery for San Diego, Cal., especially the harbour. Includes shipping.		sandiego_philcrowther123.zip	Phil Crowther	United States	California	http://www.avsim.com/	11
The Simulation Resources Database	Website	Link to part of the AVSIM website, with a collection of links to aviation and flight simulator related resources.						http://www.avsim.com/dcd/	14
Things That Go "Bump" In The Night!	Scenery	Program to add day and night background sounds after engine shutdown. Also a subsequent update file to be downloaded.		sounds.zip sounds_up.zip	José Oliveira and Jorge Filipe.			http://www.avsim.com/	3
Thinking of Upgrading your Video Card?	Systems	Link to site with information related to video card upgrades; summary of factors to consider when upgrading.						http://graphics.to/mshardware.com/graphic/20041123/sli-performance-	14
Three Basic Flying Rules	Humour	Some essential rules to help you keep flying.							14
Time to Rebuild?	FS performance	Forcing an automatic rebuild of your FS9.cfg file by removing (and backing up) the original.							13

TIPS & TRICKS No.01	Tips & Tricks issue	Published Dec. 2004		tips_and_tricks.zip (AVSIM) tipstrik.zip (Flightsim.com)	David "Opa" Marshall		http://www.avsim.com/	1
TIPS & TRICKS No.02	Tips & Tricks issue	Published Jan. 2005		tips_and_tricks_ii.zip (AVSIM) tpstrkii.zip (Flightsim.com)	David "Opa" Marshall		http://www.avsim.com/	2
TIPS & TRICKS No.03	Tips & Tricks issue	Published Jan. 2005		tips_and_tricks_iii.zip (AVSIM) tpstriii.zip (Flightsim.com)	David "Opa" Marshall		http://www.avsim.com/	3
TIPS & TRICKS No.04	Tips & Tricks issue	Published Feb. 2005		tips_and_tricks_iiii.zip (AVSIM) tpstriv.zip (Flightsim.com)	David "Opa" Marshall		http://www.avsim.com/	4
TIPS & TRICKS No.05	Tips & Tricks issue	Published Mar. 2005		tips_and_tricks_iiii.zip (AVSIM) tpstr_v.zip (Flightsim.com)	David "Opa" Marshall		http://www.avsim.com/	5
TIPS & TRICKS No.06	Tips & Tricks issue	Published Mar. 2005		tips_and_tricks_6.zip (AVSIM) tpstr_vi.zip (Flightsim.com)	David "Opa" Marshall		http://www.avsim.com/	6
TIPS & TRICKS No.07	Tips & Tricks issue	Published Apr. 2005		tips_and_tricks_7.zip (AVSIM) tpstr_7.zip (Flightsim.com)	David "Opa" Marshall		http://www.avsim.com/	7
TIPS & TRICKS No.08	Tips & Tricks issue	Published Apr. 2005		tips_and_tricks_8.zip (AVSIM) tpstr_8.zip (Flightsim.com)	David "Opa" Marshall		http://www.avsim.com/	8
TIPS & TRICKS No.09	Tips & Tricks issue	Published May. 2005		tips_and_tricks_9.zip (AVSIM) tandt9.zip (Flightsim.com)	David "Opa" Marshall		http://www.avsim.com/	9

TIPS & TRICKS No.10	Tips & Tricks issue	Published May. 2005		tips_and_tricks_10.zip (AVSIM) tandt10.zip (Flightsim.com)	David "Opa" Marshall			http://www.avsim.com/	10
TIPS & TRICKS No.11	Tips & Tricks issue	Published May. 2005		tips_and_tricks_11.zip (AVSIM) tandt11.zip (Flightsim.com)	David "Opa" Marshall			http://www.avsim.com/	11
TIPS & TRICKS No.12	Tips & Tricks issue	Published June. 2005		tips_and_tricks_12.zip (AVSIM) tandt12.zip (Flightsim.com)	David "Opa" Marshall			http://www.avsim.com/	12
TIPS & TRICKS No.13	Tips & Tricks issue	Published Aug. 2005		tips_and_tricks_13.zip (AVSIM) tandt13.zip (Flightsim.com)	David "Opa" Marshall			http://www.avsim.com/	13
TIPS & TRICKS No.14	Tips & Tricks issue	Published Sep. 2005		tips_and_tricks_14.zip (AVSIM) tandt14.zip (Flightsim.com)	David "Opa" Marshall			http://www.avsim.com/	14
TIPS & TRICKS No.15	Tips & Tricks issue	Published Oct. 2005		tips_and_tricks_15.zip (AVSIM) tandt15.zip (Flightsim.com)	David "Opa" Marshall			http://www.avsim.com/	15
TIPS & TRICKS No.16	Tips & Tricks issue	Published Nov. 2005		tips_and_tricks_16.zip (AVSIM) tandt16.zip (Flightsim.com)	David "Opa" Marshall			http://www.avsim.com/	16
TIPS & TRICKS No.17	Tips & Tricks issue	Published Dec. 2005		tips_and_tricks_17.zip (AVSIM) tandt17.zip (Flightsim.com)	David "Opa" Marshall			http://www.avsim.com/	17
TIPS & TRICKS No.18	Tips & Tricks issue	Published Jan. 2006		tips_and_tricks_18.zip (AVSIM) tandt18.zip (Flightsim.com)	David "Opa" Marshall			http://www.avsim.com/	18

Tired of Commuting by Car?	Aircraft	A flyable jetpack with pilot, good for touring detailed scenery.		JetPack.zip	Kevin Bryan / Unreal Aviation			http://69.44.154.34/cgi-bin/folio/imageFolio.cgi?action=view&link=File--	12
Tools of the Trade	Utility	A tool to view, modify, add, rename and delete resources in Win32 executables and resource files; useful for exploring and altering files such as gauges, exe and dll files and much more.	Resource Hacker		Angus Johnson			http://www.angusj.com/resourcehacker/	17
Tools of the Trade	Utility	Extracts bitmaps from gauge files and reinserts them after repainting. It requires Visual Basic 5.0 drivers (SP3 version) available from Microsoft's website.	GAU to BMP	gaubmp2.zip	Chuck Dome			http://www.flightsim.com/cgi/kds/main/menuchoo.htm	17
Too many aircraft?	AI traffic	Program to hide AI aircraft on the FS aircraft selection menu.		bbqhideai.zip	Alan W L Chan			http://www.avsim.com/	4
Too Many Gauges?	FS performance	How to avoid accumulating unnecessary gauges used by deleted aircraft.							15
Toot my own horn time	AI traffic	Download to add Goodyear Blimp by Bill Lyons as AI traffic to default Moffett Field airship hangars.		just4fun1.zip	David "Opa" Marshall	United States Goodyear	California Blimp	http://www.avsim.com/	3

Toooo Large?	Website	Link to a site which allows the uploading of files to large to email, for others to download within a seven-day limit.			YouSendIt			http://s52.yousendit.com/howdoesitwork.aspx	18
Touring with John	Scenery	Scenery package for the California Central Coast, including numerous VFR objects.		cccoastf.zip	Al Wheeler	United States	California	http://www.avsim.com/	15
Touring with John	Scenery	Scenery package providing lighthouses down the Californian coast.		ca_lighthouse.zip	Larry Silsbee	United States	California	http://www.avsim.com/	15
Touring with John	Website	Link to small website illustrating some tours in FS9, with information about suitable downloads.						http://users.chariot.net.au/~theburfs/INDEX.html	15
Tracking your Upload	Design	How to track downloads etc. for your own uploads to FS websites.							3
Traffic Help	AI traffic	Two-part help in using Lee Swordy's <i>Traffic Tools</i> .	TTools Companion	ttcomp20.zip ttcomp21.zip	Bill Schroeder			http://www.avsim.com/	5
Training Wheels?	Aircraft	Czech Aero L-29 Delfin jet trainer, a friendly FS model on which to become familiar with military jets.		l-29_dfn.zip and l29_updt.zip	Tim Conrad	Czech Aero	L-29 Delfin	http://www.avsim.com/	17
Try A Real Life Scenario	Aircraft	AirTractor AT-802 fire bomber aircraft.		at-802a_fire.zip	Brian Gladden	Air Tractor	802	http://www.avsim.com/	11

Try A Real Life Scenario	Scenery	Scenery of a forest fire in a New Zealand national park. Fire appears only on a set date.		urewera_forest_fire.zip	Heath Wells	New Zealand		http://www.avsim.com/	11
Tweak, Tweak, Tweak	Utility	Enables editing of many FS9 cfg files.	FS9 Configurator	fs9cfg15.zip	Ken Salter			http://www.avsim.com/	8
Twenty Lashes With a Wet Flight Plan!	FS performance	Amendment to T&T 3 item - Bypass the Startup Screen	Original article - T&T 3 - "Bypass the Startup Screen"						4
Two Tips I Hope You Will Never Need To Use	FS performance	Crashes when opening keyboard possibly attributable to background applications, RoboForm and WindowBlinds. How to trace cause of some other crashes.							12
Two Great Tips	FS performance	How to assign a key to the map display function in FS9.							17
Two Great Tips	FS performance	Editing load distributions in aircraft.							17
Two Interesting Tips	Aircraft tweaks	How to remove contact sparks, incorrect tire marks and other unwanted landing effects from an aircraft.							18

Two Interesting Tips	Aircraft tweaks	How to edit an aircraft's fuel consumption.							18
Two Tips I Hope You Will Never Need To Use	FS performance	Loss of some sounds but not others traceable to corrupted Windows CODECs.							12
Ugly Ducklings?	Aircraft	An interesting French prop transport with gmax features and animations.			Barney Bigard and Christian Daboudet	Breguet	763 Provence	http://www.avsim.com/	18
Ugly Ducklings?	Panels and guages	Panel for the Bigard and Daboudet Breguet 763, and a small fix file.		b2p_2.zip and fix.zip	Peter Mercy	Breguet	763 Provence	http://www.avsim.com/	18
Ugly Ducklings?	Aircraft	The PZL 140, a light utility aircraft fitted for floats, amphibian, normal and tundra tires.		wicked_wilga.zip	Joe Binka and Bruce Thorson	PZL	Model 140 Wilga	http://www.avsim.com/	18
Unforgiving	Aircraft	A challenging flyable version of the Bell-Boeing V22 Osprey tilt-rotor transport aircraft.		rcbhcf10.zip	Rob Barendregt	Bell-Boeing	V22 Osprey	http://www.flightsim.com/cgi/kds/main/menuchoo.htm	18
Unforgiving	Website	Link to a website about the Bell-Boeing V22-Osprey .				Bell-Boeing	V22 Osprey	http://pma275.navy.mil/	18
Unique aircraft	Aircraft	Sikorsky S-38 classic amphibian download.		s38nwa4.zip	George Diemer	Sikorsky	S-38	http://www.flightsim.com/cgi/kds/main/menuchoo	2
Unique aircraft	Surface vehicle	Pilotable sailing ship, the British clipper Cutty Sark.		stcs.zip	Shigeru Tanaka	Cutty Sark	Cutty Sark	www.flightsimnetwork.com/shigeru	2

Unleash your Creativity	Scenery design	Program to simplify creation of "exclude" areas for default scenery objects.		excbuilderv2.zip	Paavo Pihelgas			http://www.avsim.com/	3
Unleash your Creativity	Scenery design	Program to create runway / taxiway signs for airports.		createsign_c.zip	Vladimir Svoboda (Cesmina)			http://www.avsim.com/	3
Unleash your Creativity	Scenery design	Runway 12 object placer to insert default (and other) objects into scenery.	RWY12 Object Placer		Israel Roth and Seev Kahn			http://www.avsim.com/	3
Unusual Scenery	AI traffic	Projet Airbus Industrie pack - Flightplans for Frank Zimmermann's scenery of Finkenwerder (EDHI) airport, Germany.	Hamburg-Finkenwerder (EDHI)		Frank Zimmermann	Germany	Hamburg	http://www.fsfrance.com/Projets/PAI/PAI.htm	13
Unusual Scenery	Scenery	Fictional Hanks Outpost updated scenery, on the border of Canada and Alaska.	Hanks Trading Post (Revisited)	hanks_fs9.zip	Michael Carr	United States	Alaska	http://www.avsim.com/	13
Unusual Scenery	Scenery	AFCAD for Michael Carr's scenery of Hank's Trading Post.	Hank's Trading Post, Taku Lodge, Alaska	Hanks_Trading_Post_AFCAD.zip	David "Opa" Marshall	United States	Alaska	http://www.avsim.com/	13
Unusual Scenery	Scenery	Finkenwerder (EDHI) airport and assembly plant for Airbus Deutschland, located on the South-west side of Hamburg.	Hamburg-Finkenwerder (EDHI)	edhi_40.zip	Frank Zimmermann	Germany	Hamburg	http://www.avsim.com/	13
Up, Up and Away	Website	Website allowing online flying (not a virtual airline, but a flying club)			Brett Lee			www.tietonflyingclub.bravehost.com	3

Upgrade?	Utility	Link to the Microsoft FS9.1 upgrade patch.		fs91 upd.exe	Microsoft			http://www.microsoft.com/games/flightsimulator/fs2004_update9.1	2
Useful or Useless - I am not sure which	FS performance	Key commands to call up a small window and cycle views of various AI aircraft in the vicinity.							8
Vancouver – CYVR – Revisited	Scenery	Version 4.2 of Vancouver CYVR, BC airport, with update to resolve display issues. Hints to further improve frame rates if needed.		cyvr4.2.zip and cyvr42fx.zip	P. Nigel Grant	Canada	British Columbia		17
Vertex? Is That a Disease?	Scenery	Enhancing terrain mesh detail by editing vertex level in FS9.cfg							5
Very Useful Websites	Website	Site to search for virtual airlines world-wide.						http://207.127.218.107/advsearch.wcgi	12
Very Useful Websites	Website	Website to hear live ATC (Air Traffic Control) conversations.						http://www.liveatc.net/feedindex.php	12
Very Useful Websites	Website	Tutorials from real-world pilot. CD available.			Hal Stoen			http://www.stoenworks.com/Aviation%home%page	12
Very Useful Websites	Website	Detailed information about scenery terrain mesh.						http://www.fs-traveler.com/welcome.shtml	12

Very Useful Websites	Website	Website with links to information on constructing simulator cockpits.						http://www.fscoc.kpit.com	12
Very Useful Websites	Website	Website with detailed graphical explanations of various aircraft panels.						http://www.meriwether.com/flightdeck.html	12
Video Feedback	Systems	Need to update FS9.cfg to recognise newly-installed video card.							15
Video Recommendation	Media	Short video clip of a T-6 flying at tree top altitude near a little valley airport in Oregon.	A Place to Dream Of	t6vid.zip	Klaus Mueller			http://www.flightsim.com/cgi/kds/main/menuchoo.htm	17
Wake Up the Chickens!	FS performance	Selecting a barnstorming flight from the FS9 default flights menu.							14
Want to Know (and understand) More?	Website	Link to site containing a number of FS-related tutorials.						http://www.wilsonsairspace.com/tlc.html	11
Want to Make Contact?	Aircraft tweaks	Short summary and link to article about editing contact points in aircraft.cfg files.						http://www.sim-outhouse.com/index.php?loc=articles&page=cp	9
Want To See Better Detail On Your Aircraft?	FS performance	Changing the maximum texture size in the FS Options menu - with the proviso that the aircraft is well drawn in the first place - should enhance its appearance.							11

Water, water everywhere!	Scenery	Water texture enhancement.		waterzone.zip	Pete Drazzoff			http://www.avsim.com/	3
Well Packaged	Aircraft	Package of the Boeing 75 Stearman classic biplane, with various liveries and a fictitious airfield scenery in Kansas.		stear04.zip	David Eckert, Mark Smith and Dennis Seeley	Boeing	Stearman	http://www.avsim.com/	9
What a view!	Aircraft	Blimp panel.		newpanel.zip	Frank J. Petriccione			http://www.flightsim.com/cgi/kds/main/menuchoo.htm	9
What do I fly?	Aircraft	One of the author's own preferred FS aircraft.	Beechcraft King Air F90-1	ka_f90-1.zip	Henry Tomciewicz, Dee Waldron	Beechcraft	King Air	http://www.flightsim.com/cgi/kds/main/menuchoo.htm	13
What do I fly?	Aircraft	One of the author's own preferred FS aircraft.	Aero Commander 500 Cargo (With VC)	ac500ca1.zip	Milton Shupe, Scott Thomas, André	Rockwell	Aero Commander 500	http://www.avsim.com/	13
What do I fly?	Aircraft	One of the author's own preferred FS aircraft.	Lockheed 094A Constellation	fsdzl049a_v1.zip	John Howard White and others	Lockheed	Constellation	http://www.avsim.com/	13
What do I fly?	Aircraft	One of the author's own preferred FS aircraft.	Brunner Winkle Bird	bwbird.zip, bkpilotfx.zip	Golden Age Simulations	Brunner Winkle	Bird	http://www.avsim.com/	13
What do I fly?	Aircraft	One of the author's own preferred FS aircraft. Includes author's tips to enhance performance.	Beechcraft D18S	d18svc4.zip	Milton Shupe, Scott Thomas, André Folkers	Beechcraft	D18S	http://www.avsim.com/	13

What do I fly?	Aircraft tweaks	Interior modification to the Shupe / Thomas / Folkers Beechcraft D18S.	D18S virtual cabin and cockpit modifications	d18s_int.zip	Urs "Maloney" Burkhardt	Beechcraft	D18S	http://www.avsim.com/	13
What do I fly?	Author	The author's own preferred FS aircraft.							13
What do I fly?	Website	Support site for the Shupe / Thomas / Folkers Beechcraft D18S.				Beechcraft	D18S	http://www.flightsimonline.com/d18s/faqs.htm	13
What is it?	Background	Explanation of airfield marking.							13
What is it?	Website	Link to FAA site as a general information source on airport operations.						http://www.faa.gov/ATpubs/AIM/Chap4/aim0403.html	13
What's On the CD's?	FS performance	Quick guide to which of the MSFS CDs contain which files, and an introduction to .cab files.							15
What's the Weather Like in _____?	Utility	Tool to allow real-world METAR weather reports to be called up within FS, or without loading FS.		fs9_in-flight_metar_tool.zip	Andreas Trawny			http://www.avsim.com/	9
What's a Synchrophaser?	Background	Definition from the FS2004 glossary.							9

What's In A Name?	Scenery	Doherty's Difficult and Dangerous Approaches series of downloads, setting up interesting situations at various world airports.	Difficult and Dangerous Approaches	Several in series, plus packages of various files.	Michael Doherty			http://www.avsim.com/	6
What's In A Name?	Scenery	Separate sceneries for Nantucket, Martha's Vineyard and Hyannis Airports in Massachusetts, by William Shea.		khya.zip kmvy.zip kack.zip	William Shea	United States	Massachusetts	http://www.avsim.com/	11
What's Wrong With This Picture?	FS performance	Symptoms of missing scenery or aircraft textures, and what to do about it.							14
When 2 (or 4) Engines are Not Enough	Aircraft	Convair B-36H Peacemaker by Kazunori Ito, a huge multi-engined US bomber conceived in WW2 and produced in the early years of the Cold War..		b36h5718.zip	Kazunori Ito	Convair	B-36	http://www.flightsim.com/cgi/kds/main/menuchoo.htm	17
When Two Wings are Not Enough	Aircraft	Pfalz Dr1 of Pegasus Aviation Designs, one of three triplane fighters produced in WW1.			Frank Elton / Pegasus Aviation Design	Pfalz	Dr1	http://www.flightsimnetwork.com/pegav/pages/pfalzdr.shtml	17
Where Are My AI Aircraft?	AI traffic	Troubleshooting when AI traffic does not appear as expected.							9
Where Are My AI Aircraft?	Utility	Brief introduction to Traffic Tools program, for setting up AI traffic.	Traffic Tools		Lee Swordy			All major FS download sites; AVSIM, Simviation,	9

Where is it?	FS performance	Setting up visual approach guide in FS							2
Where Should I Fly Today?	Website	Site which provides downloadable flight plans from users around the world.						http://www.fsdestinations.com/	9
Whoa, Nelly!	FS performance	How to apply differential braking to taxiing aircraft.							6
Yet Another Breakthrough	Aircraft	Detailed model of the Piper Tri-Pacer including a full virtual cockpit and working external hot-spots for pre-flight checks, refuelling and start-up.		cc13p22f.zip	Bill & Lynn Lyons	Piper	PA-22 Tri-Pacer	http://www.avsim.com/	15
You Have to "Talk the Talk".	FS performance	The phonetic alphabet and numeric pronunciations, as used in ATC and other radio communications.							8
You Might Be a Winner!	Background	Voting for designers in the FlightSim.Com monthly competition can win prizes both for you and your nominated author.						http://www.flightsim.com/cgi/kds/main/menuchoo.htm	16
Zip it Up	FS performance	Zipping backed up files or folders to avoid FS reading them.							16

Zoom, Zoom, Zoom	Utility	A utility to allow mouse-controlled zooming and other view movements in spot and other views.	F1View Utility	F1view.zip				http://www.flight1.com/view.asp?page=library	8
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