

# Design your own PC Voice Control System

Using Microsoft SAPI, Perl and VB



Richard and Darren Hammond

**e**lektor

# Design Your Own Pc Voice Control System Using Microsoft Sapi Perl Vb

**Yan Bai**



## **Design Your Own Pc Voice Control System Using Microsoft Sapi Perl Vb:**

**Design Your Own PC Voice Control System** Richard Harwood, Darren Harwood, 2011 In the 21st Century we increasingly want to simplify the control of the real things that affect our daily lives Don't you feel it's just about time we could simply talk with computers and get them to handle some of the everyday house automation tasks lights doors gates curtains televisions music and other domestic appliances Or even make the information super highway slicker by talking with you and telling you about the information you requested to be retrieved from the web Think of all the time and inconvenience you could save no more need to install yourself at a desk and fumble about with keyboard and mouse Well now you can This book details a project which will enable you to instruct your computer using your voice and get it to control electrical devices tell you the time get your share values get the weather etc and speak it all back to you in a natural human voice It shows you the technology to interface with your computer using voice Also you will find that in using voice as an interface your computer gains a novel persona of its own On calling the name we gave our computer the machine listens furtively responding appropriately and politely acknowledging us using a preceding phrase we gave it The book guides you through practical speech recognition speech annunciation and control of really useful peripherals like the above Software is explained in depth and consists of short tasks in VB Perl and XML interfacing with Microsoft SAPI and an extraordinarily human like voice which was purchased Some software experience is desirable Control hardware consists of a low cost mains I/O relay solution which interfaces to the PC using usb and was purchased although there is nothing to stop you developing your own solution Some experience with wiring and soldering is desirable If you are interested in the practical technology of interfacing with machines using voice such as talking with your own PC then this book is your guide *C/C++ Users Journal*, 1997-07 *Windows Developer's Journal*, 1998-07 [Windows Speech Recognition Programming](#) Keith A. Jones, 2004 Speech software has been a hot topic in the computer industry for as long as there have been computers Computer speech has been around in one form or another for over 30 years but early speech software could only run on very big and expensive computer hardware Thanks to Microsoft the size of your computer is no longer a major limitation to computer speech Just like with so many other computer technologies it took Microsoft to make speech software easy to program and even easier for PC users to use speech to control their Windows software applications With Windows Visual Basic ActiveX Voice Control Automation Services Speech API SAPI and Speech Suite Software Development Kit SDK complex computer speech synthesis and even speech recognition has become more accessible to all programmers for use in their multi media business education and recreational applications This book offers the reader a detailed exploration of Windows Speech Automation Services via Visual Basic ActiveX Voice Controls available in MS Speech API Versions 4.0 to 5.1 as well as third party SAPI vendor SDKs such as IBM ViaVoice and Dragon NatSpeak It provides a thorough introduction to Windows Speech Recognition Programming for beginning as well as advanced programmers **Unlocking the Voice: A Guide to Advanced Windows**

**Speech Programming** Pasquale De Marco, In the ever evolving landscape of technology one aspect has consistently captured our imagination and opened new horizons speech software For over 30 years speech has been an integral part of the computing world and with each passing year it continues to push boundaries and redefine what is possible Unlocking the Voice A Guide to Advanced Windows Speech Programming immerses you in the fascinating realm of speech technology offering a comprehensive journey through the tools and techniques that enable computers to listen speak and understand human language This book is your key to unlocking the potential of speech technology Each chapter takes you on a captivating voyage through the history and evolution of speech software From its early days as a technology restricted to massive and costly hardware to the present where Microsoft s innovations have made speech software accessible and adaptable to a myriad of applications this book unravels the intricate tapestry of speech programming At its core Unlocking the Voice provides a deep exploration of Windows Speech Automation Services using Visual Basic ActiveX Voice Controls It covers Microsoft s Speech API SAPI from versions 4 0 to 5 1 and even delves into third party SAPI vendor SDKs such as IBM ViaVoice and Dragon NatSpeak to broaden your understanding of this dynamic field Embark on a journey that starts with the art of speech synthesis where you ll learn how text is transformed into natural sounding voices with varying tones and accents Dive into the heart of speech recognition uncovering how computers analyze and interpret spoken language and the myriad possibilities this opens up for developers and users alike As you progress through the chapters you ll discover the power of Visual Basic in creating speech enabled applications Learn how to integrate speech features automate tasks and explore the extensive potential of voice control automation Go beyond the basics to explore advanced features such as voice user interfaces and customizing speech commands ensuring your applications stand out in today s tech savvy world Unlocking the Voice showcases how speech technology is reshaping business applications enhancing education and transforming the entertainment and recreation industry Explore real world case studies and gain insights into the challenges and opportunities that lie ahead The world of speech technology is in constant flux and Unlocking the Voice is your definitive guide to navigating this exciting field Whether you re a novice programmer or a seasoned pro this book opens doors to creating innovative interactive and engaging speech enabled applications Join us on a journey through time and technology and unlock the incredible potential of the human voice in the digital realm

[Dragon Professional - A Step Further](#) Michael Shepherd, 2019-07 Dragon Professional Individual formally Dragon NaturallySpeaking is firmly established as the world s leading voice recognition and speech to text software application However it can be used to do so much more Dragon Professional A Step Further provides you with the tools to extend the capabilities of Dragon Professional and Dragon NaturallySpeaking on PC Even if you are new to the world of programming you will quickly be creating Dragon commands macros and automating processes using the simple yet powerful Dragon Script language Step by step instructions will walk beginners through the basics while intermediate and advanced users can take advantage of the source code provided and use

them for reference or as a starting point towards creating effective solutions This comprehensive guide starts by getting you acquainted with the Dragon command types that can be created You will then be able to build upon that foundation and utilise the full capabilities of the Dragon Script language in order to produce Dialog Forms Dragon commands with Lists commands that incorporate Visual Basic for Applications VBA and lots more You will learn how to create voice commands that can automate popular software This is all backed up by real world macros that can instantly be used with popular applications such as Word Excel PowerPoint Sonocent Audio Notetaker and Mindjet MindManager This book will show you how to Create appropriate Dragon command types Automate routines such as inserting email signatures or backing up your data Create edit and work with Dragon macros which include List Variables Import and Export Dragon commands Encrypt and protect your Dragon commands Create interactive Dialog Forms Create Dragon macros which incorporate Visual Basic for Applications VBA Work with Dragon macros which include Object Library References Use the Record Macro function to automatically generate Application VBA Create Dragon commands that will work with multiple applications Produce Dragon voice commands to perform your existing application macros Start making useful and effective Dragon Commands straight away that will increase productivity save time and provide significant impact for any individual or business Covers Dragon Professional Individual Dragon Professional Group Dragon Legal Dragon Medical and Dragon NaturallySpeaking Professional version 11 and above      *How to Build a Speech Recognition Application* Bruce Balentine,David P. Morgan,2001

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