

Keith Wells,
NOLA
Developer
since
1994



King Wells,
NOLA
Developer
since
1998

2 of NOLA's finest

King and Keith Wells attended Jesuit High School before earning degrees in computer science at Dillard and Tulane, respectively. They were introduced to NOLA by childhood friend Leanidus Washington, a beloved NOLA alumnus.

“Keith, myself, and Lee used to write little games on our TIs* in 8th grade,” remembers King. “From there we went to the IBM PC Juniors, from there we went to school.”

TIs at that time came with games installed, but could also be used to write programs. Here, competition was a great motivator for the three young men, as they taught themselves early versions of Basic.

“We would spend hours trying to learn more than the other guy,” remembers Keith.

After graduating from Dillard, King moved to Dallas to develop commercial tax software and provide Delphi and Visual DBase support. Three years later, he returned to New Orleans, where he is a minister at New Home Full Gospel Ministries.

While computer programmers have

*personal computers produced by Texas Instruments, late 1980s.

flexibility using object computing

dis-
trib-
uted

Are you running systems on a mixture of mainframes, servers, and midrange platforms? Do your systems operate on various versions of UNIX, Novell NetWare and Windows NT, with workstations running assorted flavors of Microsoft Windows, IBM OS/2, or Apple Macintosh? Perhaps your systems have communication switches or real-time process control devices. Maybe your applications use PowerBuilder, COBOL, or Java clients to talk to Sybase, Oracle, DB2, or IMS databases. Do you have trouble making all of these systems communicate? If so, you're not the only one.

Over time, as development and purchases accumulate, legacy systems become too crucial or costly to replace. If, for twenty years, you've been successfully running a critical customer information application on a mainframe, for instance, you're not likely to scrap the system in favor of the latest technology. Or, if you've invested a large sum of money on a system, you probably want to keep it running until the investment has paid off.

Heterogeneity lets us build an enterprise using the best combination of hardware and software components, but achieving heterogeneity isn't always easy. Programming packages and interfaces are available for development on a single homogeneous platform, but few facilitate integration of separate systems into a distributed heterogeneous environment. Traditional integration

See *Distributed*, page 4

the reputation of being anti-social types who interact almost exclusively on the virtual plane, the Wells brothers agree that NOLA developers tend to have a more holistic approach to IT.

“You give the average programmer something and they just hack it out. They don't even have to talk, they just write in the code,” says Keith. “Then there are the programmers who can communicate with the client, those are the ones who will get on with NOLA.”

The brothers agree that NOLA provides great opportunities in design,

See *Finest*, page 5

INSIDE THIS ISSUE

Distributed object computing, cover page

Two of NOLA's finest, cover page

Letter from the president and chief executive officer page 2

Welcome chief financial officer John Nolan and staff augmentation coordinator Stacy Williams, page 3

SEPG update, page 5

DHTML Tech Tip, page 6

Sybase training schedule, page 7

NOLA birthdays and anniversaries, back page

Dear Colleagues,

We're excited about publishing another issue of *Peer to Peer*.

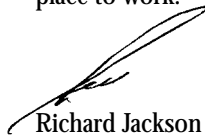
We received positive feedback on our debut issue and will continue to offer helpful articles and technical tips.

We hope you will find our feature on distributed object computing both engaging and informative. For those who don't know, our team of consultants includes several architects with backgrounds in object modeling, and—as Sybase and Forté partners—we offer DOC tools and training. We encourage you to learn more about our alliances, and to get involved with one of our internal projects.

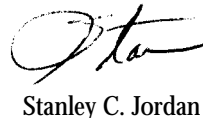
During the first quarter, our accomplishments were within our goals. We successfully transitioned to the USDA Thrift Savings Plan project and implemented a credit report accounting system at Milliken and Michaels. We added a second Sybase tools instructor and implemented Acuity Financials/Acuity Projects internally. With the help of our new chief financial officer, Mr. John Nolan, we are currently developing an interface between Acuity Projects and our payroll system. We also became a Microsoft Certified Solutions Provider.

If you happen to be in the Atlanta area, stop by and see our new office at Five Concourse Parkway, where we've relocated to save our clients the inconvenience of negotiating downtown traffic. We are scouting out a more convenient location for our Houston office as well. We will keep you posted.

We appreciate your outstanding efforts to provide cost-effective information technology solutions to our customers. We have faith that the shared values of truth, trust, mentoring, openness, risk-taking, caring, honesty, and giving credit make NOLA a more comfortable place to work.



Richard Jackson



Stanley C. Jordan



President
Richard Jackson
(left) with CEO
Stanley Jordan



King & Queen buildings at the Concourse, NOLA's new Atlanta home

Early in 1998, NOLA's newly formed Software Engineering Process Group adopted an objective to implement a company-wide development process that would earn a level-three Capability Maturity Model certification by year-end 1999.

During the last five quarters, much has been accomplished in the pursuit of that goal. NOLA now has a software management plan with established life-cycle methodologies for both structured and object-oriented software development. Quality assurance, requirements management, configuration management, and planning and tracking policies supporting a life-cycle methodology have successfully guided both client and internal development projects, including CATS, ARTS, and ATRAMS.

NOLA's burgeoning efforts toward a year-2000 commercial software release, however, present an important question: Which is more important to NOLA's future—CMM certification or certification by the International Standards Organization? While each program emphasizes quality, standardization, and repeatability, CMM recognition is generally confined to the United States. ISO 9000 certification, on the other hand, nets global prestige.

Last February, NOLA management reviewed an SEPG analysis of costs and trade-offs for shifting to an ISO

See SEPG, page 5

sepg update



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Goodbye to Our old friend

welcome

stacy
williams

With ten years experience in IT sales and marketing, most recently at Acclaim Technology, Stacy Williams joins the NOLA team as staff augmentation coordinator and account manager. She'll recruit staff to meet the needs of our existing customers, help to identify additional customer needs, and work to expand our customer base.

Born and raised in California, Ms. Williams fell in love with New Orleans when she first visited for Jazz Fest in 1991. After seven more annual journeys, she made New Orleans her home. What does she like best about our city? "The culture, the food, and the music—especially jazz, blues, and gospel."



Lisa Joseph,
Office Manager
and more
since 1992,
leaves NOLA
at the end
of this month
to pursue an
entrepreneurship



Very seldom in our lives do we meet someone as genuine, warm, and caring as Lisa Joseph. She is one of the truest, most selfless individuals I have ever met, and we are fortunate to have had someone like her at NOLA. As one of the company's cornerstones, she has always had the best interests of NOLA at heart. For seven years, she performed whatever tasks were required to satisfy the needs of our customers as well as our employees, and she did so selflessly, without question, and to the best of her ability.

Lisa's friendly voice and easygoing demeanor make everyone feel comfortable. I have always been amazed at how tactfully she can disarm the most difficult individuals. As friends and colleagues, many of us discussed issues with her because we knew she would listen intently and provide advice without bias or casting judgment.

I have worked professionally for over 20 years, and I have had very few colleagues who I felt were as genuine as Lisa. She has worked with no hidden agendas or ulterior motives. With Lisa, what you see is what you get, and when you have had the opportunity to work with someone like Lisa, it is heartbreaking when they have to leave.

I didn't want to compose a tribute that sounded like an obituary, but, inevitably, when you write about the departure of someone who has meant so much to so many, it ends up sounding

that way. I am consoled by the fact that our friendship will not end when Lisa leaves NOLA at the end of this month. I'm very excited

about Lisa's new life as a successful entrepreneur, as we all should be. Our love and prayers go with her as she begins this new phase of her life.

Her absence will leave a great hole in the soul and spirit of NOLA, and I will miss her dearly—Richard

It's always hard to say goodbye to someone with whom you've shared a lot of memorable times. With Lisa Joseph, our memories started in the executive office suite on the 29th floor of the Energy Centre, before she worked for NOLA. Lisa was the favorite among all the people in the Centre as well as with NOLA personnel. There were such times as the "lawyer" days, hurricane night at NOLA's office, and interactions with NOLA personalities we're all fond of (Lisa, you've met plenty over the years).

Lisa has been with us longer than any other employee. When we ask the question "Remember when . . . ?" Lisa won't be here to say, "You bet I do." We'll truly miss you Lisa, my rock and spiritual advisor. We'll miss you at the Christmas parties and crawfish boils. We all know you were instrumental in making them a success. Most of all we'll miss the commitment and perseverance with which you approached your job.

Lisa, I wish you luck with your business. Please keep us in your prayers, we'll keep you in ours—Stan

2 of NOLA's newest

John Nolan, CPA and NOLA's new chief financial officer, has been crunching numbers for over fifteen years. A native of Seattle, Washington, where he was most recently CFO for Acme Food Sales, Mr. Nolan moved to New Orleans for the music and, believe it or not, the heat.

What's the biggest difference between New Orleans and Seattle?

"In Seattle, they fix the street lights." What does he like best about New Orleans? "Everybody loves their vices."

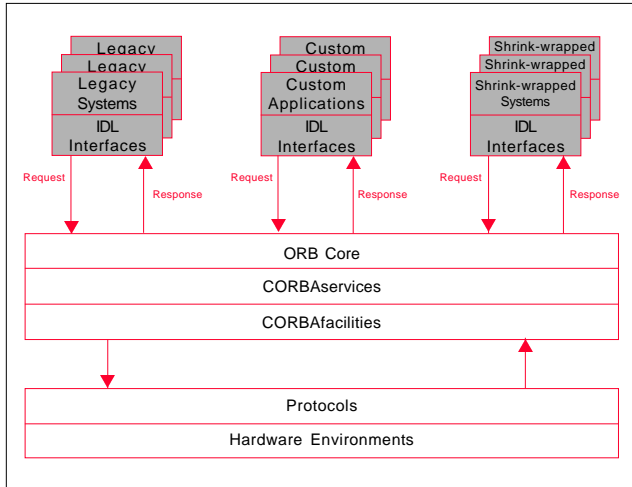


john
nolan

Distributed, from page 1

involves low-level network and operating system programming. The resulting environment is hard to maintain and harder to extend.

Distributed Object Computing views applications and services as *objects*—think of “black boxes”—that send and receive messages. Client applications



don't need to know where the objects are or how they are implemented, because interface coding provides a transparent bridge. With DOC, software maintenance is easier. And, because new objects can be built from existing objects, development cycles are shorter, and modifications are less expensive.

The Object Management Group has been driving the DOC movement since 1989. With over 750 members, OMG is the largest software consortium in the world. Its first publication, “Object Management Architecture,” guides development and deployment of interoperable distributed object systems within heterogeneous environments.

Common Object Request Broker

Architecture, an OMA offshoot, specifies component characteristics for distributed object computing frameworks. CORBA is available for desktop (Windows, UNIX, Macintosh) and enterprise systems (OS/390, OS/400, UNIX, VAX/VMS, NT). CORBA's Object Request Brokers let diverse systems operate together as if they were

one system. Brokers let applications use objects without knowing their network locations or protocols, whether the objects reside inside the application, inside a separate application on the same platform, or inside a separate application on a separate platform. Brokers also handle implementation details independently,

enabling the development of modular—and reusable—software.

CORBA software components written in different languages are able to interact via CORBA's neutral Interface Definition Language. IDL can map to a number of different languages, each developer can use the language of choice. IDL also facilitates distribution for senders and receivers on different network machines. Custom applications, legacy systems, and shrink-wrapped software from such vendors as SAP, Oracle, PeopleSoft fit easily into a

CORBA environment.

CORBAservices addresses fundamental requirements common to all heterogeneous and distributed computing architectures, including Security and Transactions. CORBAfacilities are layered on top of CORBAservices, and include e-mail, printing, and compound documents. In addition, OMG teams are working on such specialized common facilities as system management, geo-spatial data processing, and standards for enhancing interoperability between software products of different vendors.

Component-based distributed systems have great flexibility. Client applications may be added to the system at any time, and object implementation can be changed at any time. As long as the interface to the object doesn't change, client applications won't need to be rebuilt. So don't despair. No matter what you're running, or what you're running it on, there's a good chance you can keep it running with DOC.

the
author



Paul Augustin, NOLA's Vice President of Consulting, is one of the technical architects on the Defense Integrated Military Human Resources System for the U.S. Department of Defense. The DIMHRS team plans to use CORBA ORBs

to integrate legacy, custom developed, and commercial off-the-shelf systems. Designed to replace dozens of the Department's legacy Personnel and Pay Administration systems, DIMHRS will be one of the largest systems ever deployed.

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Finest, from page 1

analysis, customer relations, and, of course, developing.

"I'd never had the opportunity to work with stored procedures using SQL Server or Oracle," notes King. "In the short time I've been with NOLA, I've gotten more in my bag of skills than in all the years I've been programming."

A member of the Applicant Requirements Tracking System team, King is using a Forté DBsessionbag to develop multiple database connections. He's also developing a web-based component that will allow applicants to send resumés directly to our website.

On the Defense Integrated Military Human Resources System project at the U.S. Navy, Keith works with Paradigm Plus and Rational Rose, UML (Unified Modeling Language) object-oriented modeling tools. The DIMHRS project will result in a system that consolidates human resource management for all U.S. military branches, replacing disparate systems with one colossal application that will accommodate the entire Department of Defense.

Born on New Year's Day, the brothers look forward to their next birthday when, as they see it, the whole world will help them

SEPG, from page 2

path, and decided to pursue ISO certification.

Because the two approaches share a common principle—"say what you do and do what you say"—the SEPG will continue to pilot development projects.

Vice President of Business Development Bruce Woods and SEPG Manager Bill Gough are evaluating options for ISO training for SEPG members—aiming for ISO certification during the first quarter of 2000.



*Vice President of development
Bruce Woods*

incentive Companies will be crushed in this business if they're not responsive to their customers."

Referring to an era when each megabyte of magnetic disk storage cost over \$750—a quantity of memory that today costs about 75 cents, Keith argues

celebrate. Neither are too concerned about predictions of Y2K disaster.

"I think it's an anti-hype," says Keith. "Whatever *does* happen will happen because of fear created by the media. The stock market may crash because of fear, but the actual problem isn't as severe as people think.

"It comes down to one thing: most applications are not date dependent. The ones that are will not necessarily stop running. An error message may pop up, you may get a bad writing to the error log, but the database won't be erased. People think because the date went bad all the data is going to be wiped out. That won't happen."

The only industry that might be at risk, Keith thinks, is banking, because applications there are date dependent. "But, if a banker queries a database and gets all these 1900s—well, the bank probably didn't exist back then. Simple conclusion: These loans are for the year 2000 instead of 1900. You scratch it out and write 2000."

According to a recent article in the Associated Press, over 50 cases nationwide have been launched against IT companies whose products have experienced Y2K problems. New lawsuits are being filed weekly. To date, six states (California, Florida, Georgia, Hawaii, Nevada, and Virginia) have already established Y2K immunity laws. Thirty-one states—Louisiana is not one of them—are currently considering immunity laws.

Opponents to Y2K immunity laws claim that removing the threat of lawsuit removes incentives for companies to fix their products, but attorney

Claude Stern, who beat back six lawsuits against Inuit Inc. (Quicken), says lawsuits "are not the incentive Companies will be crushed in this business if they're not responsive to their customers."

Referring to an era when each megabyte of magnetic disk storage cost over \$750—a quantity of memory that today costs about 75 cents, Keith argues

benefit news

UNUM Corporation, the parent company of our disability insurer, UNUM Life Insurance Company of America, has announced it is merging with Provident, the leading provider of individual disability insurance in North America. The merger is subject to shareholder and regulatory approval and is expected to take six to nine months.

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that "you can't hold a company liable for a fault in the technology at the time."

"Everyone in the industry knew about it," agrees King, "so everyone's going to have to share the blame."

Their predictions for the future of the industry? For one thing, methods for storing data are likely to reach a level of sophistication unimaginable in the 1960s, when future Y2K calamities were born.

"We'll be storing data on small crystals," says Keith, "and the processor will be the size of your fingernail. Processing will probably be 20 times faster than it is today." And, he says, citing a new protocol called MP3, "in 5 years the Internet will be indispensable, it's already affected just about every business." MP3 allows for quality compression and playback of digitized music. Anyone can go to MP3.com and download recordings for free. Because MP3's founder and chief executive Michael Robertson pays a generous 50 percent royalty rate musicians benefit as well.

"I would say we'll have a cashless society in five years or less," predicts King. "There's a tremendous profit potential for the industry, since everything's going to be bits and bytes—but it has an Orwellian feel to it."

Where will the Wells brothers be in 25 years?

"Retired," says Keith.

"I could work with that," agrees King.

EVER WONDERED

how to implement a

We're going to implement a list of states. The swap-box will be compatible (more or less) with both Microsoft's Internet Explorer 4 and Netscape's Navigator 4. Due to space limitations, I haven't included source code here. To see source code, load <http://www.nolacom.com/SwapBox/Page1.htm> into your WWW browser, right-click, and View Source.

First, design the page that will contain the HTML form (see Figure 1). Looking at the source code, you'll notice I've used a table to lay out the controls on the page. Both IE and Navigator allow absolute positioning of HTML elements, but they implement positioning differently, so I stick with tables for layout.

List boxes are declared in HTML with the `SELECT` tag. Looking at the code for the first list box, you'll see that it has *id* and *name* attributes. The *id* attribute is used by the DHTML

scripting language, while the *name* attribute identifies the element to the server when the form is submitted. (Incidentally, there is no requirement for the form's action to be an ASP file; any CGI application would suffice.) Notice also that I've rather laboriously listed each state as an option tag within the `SELECT` tag. (A better technique would be to use an ASP `#INCLUDE` statement—I avoided ASP for this example because it's not visible on the client.) The *size* attribute tells the browser how many rows to display; the *multiple* attribute tells the browser that the list box should allow multiple selections. Along with the standard **Submit** and **Reset** buttons, there are two command buttons that move elements between the two list

boxes.

If you've loaded this page with Navigator, you'll notice that it doesn't look quite the way we want it to (see Figure 2). Navigator doesn't implement the *style* attribute for `SELECT` tags, nor are the two swap buttons disabled as they are in IE. There's nothing to be done about disabling the buttons; the Navigator object model just doesn't support it. (In general, IE has a



Figure 1



Figure 2

fuller object model and gives you more control over the page.) In order to get around the skinny right-hand list box, we'll have to add the option with the longest text, then remove it with some code in the *OnLoad* event for the window (see <http://www.nolacom.com/SwapBox/Page2.htm>). For IE, we simply call the *remove* method of the `SELECT` object. For Navigator, we remove an option by setting its value to null—this won't close the list correctly, that we have to do manually.

To make it easier to maintain browser independence, I created a new JavaScript function called `RemoveListBoxOption`, which takes two parameters: the list box control itself and the zero-based position of the option to remove. Be aware that

JavaScript is a type-less language—all you can do is state the names of the parameters. (It's worth mentioning that JavaScript doesn't require that you declare variables, although this is good practice. It's also a good idea to pre-fix the variable name with an abbreviation of the type you'd want if JavaScript were

swap-box in

dynamic html? strongly typed.) If the function is running on IE, it simply calls the *remove* method on the list box control parameter; otherwise, the function has to remove the option by first shifting all of the subsequent options to the left, then setting the final option to null. Navigator also resets the width of the list box when the browser window is resized. Unfortunately, I have found no way to circumvent this problem. Assuming you don't resize your window, the final result on Navigator—

while perhaps not as attractive as on IE—is still satisfactory.

Now we're ready to begin coding the swap box. Since we've disabled the swap buttons, we need to re-enable them when an item is selected in the appropriate list box. We do this by trapping the *onchange* event for each list box (see www.nolacom.com/SwapBox/Page3.htm). The two new event handlers enable buttons that have options selected and disable buttons that don't have options selected. These event procedures are executed by Navigator, but they have no effect.

Now we need to implement the two swap buttons (see www.nolacom.com/SwapBox/Page4.htm). Although we disabled the buttons for IE, a Navigator user may still press one when nothing is selected, so we have to write our code to account for this possibility. Because each button does the same thing, although in different directions, the *onclick* event handlers both call

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TransferListBoxOptions with the source list box as the first parameter and the destination list box as the second parameter. The buttons also disable themselves after they're pressed, so users will not accidentally click them when they shouldn't. The TransferListBoxOptions simply steps



Figure 3

backward through the source list box's options and transfers any options that are selected. By stepping backwards, we can be sure that it's safe to delete the items immediately after adding them to the destination list box.

We've seen RemoveListBoxOption, so let's look at the two new functions: InsertListBoxOption and GetInsertionPosition. The former creates a new OPTION object from its text and value, then inserts it into the list box at the given position. As with RemoveListBoxOption, IE offers us a pre-built method (add) for adding the option, while Navigator requires that we

code the insertion by hand. Because HTML list boxes are not automatically sorted, we have to use the GetInsertionPosition function to determine where to add the new item. This function simply scans the supplied list box object until it finds either the end of the options or an option whose text alphabetically follows the text of the option we want to insert.

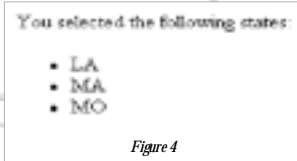


Figure 4

Now we just need to customize the Submit and Reset buttons. When a form is submitted, only the selected items of a list box are sent to the server; so we need to select all the items in the right-hand list box. To save on network traffic, we should also make sure that the user has something worth submitting. By using the onsubmit event of the form itself, we can control whether or not the form is actually sent to the server (see www.nolacom.com/SwapBox/Page5.htm).

If the right-hand list box is empty, we should return false, thereby canceling the form submission. If the form is valid, we select all the options in the right-hand list box and allow the submission to

continue. The Reset button would normally be left alone, but I altered its behavior slightly. For this application, a press of the Reset button will ask users if they want to reset the form; if yes, items in the right-hand list box will move back to the left-hand box.

And that's it. For the purpose of this demonstration, the WWW site will process the form by returning the option values that are submitted—if we press the Submit button in Figure 3, we'll get Figure 4 back.

About the author



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Narti Kitiyakara taught himself nearly a dozen programming languages before earning a B.S. and an M.S. in computer science from the American Institute of Computer Sciences. Mr. Kitiyakara joined the NOLA team in 1998, and is currently developing a credit report tracking and billing system in Visual Basic for Milliken & Michaels.

software components now available as COM objects or Visual Basic source code

Registry Component	Access to the Win9X and WinNT registry through an easy-to-use interface.
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Event Log Component	Writes messages to the event log (WinNT) or an event file (Win9X).

For more information, contact Narti at nkitiyakara@nolacom.com.

Birthdays

anniversaries

<p>Bo Zhong—9 Chris Miltenberger—15 Daniel Carlton—24 Anthony Williams—26 Donald Jordan—28 Stanley Jordan—28</p>	<p style="font-size: 2em; color: red;">april</p>	<p>Jonathan Bourdeau : 1 : 5 years Robert Clifton : 1 : 5 years Mark Smith : 20 : 1 year</p>
<p>Kevin Leggett—14 Aron Guidry—2 Elodie Thibodeau—29</p>	<p style="font-size: 2em; color: red;">may</p>	<p>Chandra Valipe : 1 : 1 year Conrad Carriere : 4 : 4 years Shawn Antée : 15 : 4 years</p>
<p>Kavita Chebbi—1 Claudette Treme—3 Donnie Guedry—13 Gloria Aaron—21 Lateral Jones—30 Cristina Martin—30</p>	<p style="font-size: 2em; color: red;">june</p>	<p>Lisa Joseph : 1 : 7 years W. Anthony Williams : 3 : 3 years Kavita Chebbi : 13 : 2 years King Wells : 15 : 1 year Clive Arlington : 19 : 4 years</p>
<p>Elita Crawford—1 Jonathan Bourdeau—11 Patricia Pittman—11 Cecilia Mitchell—15 Richard Heflin—17 Chandra Valipe—19</p>	<p style="font-size: 2em; color: red;">july</p>	<p>Shankar Reddy : 1 : 2 years Elizabeth Lee : 20 : 1 year Donnie Guedry : 27 : 1 year Narti Kitiyakara : 27 : 1 year</p>



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