

Introducción a la Programación Object Pascal con Rad Studio Delphi XE

Delphi – Object Pascal para versiones © Embarcadero 7 a XE10 & Lazarus free Pascal

Delphi es un entorno de programación del tipo RAD (Diseño Rápido de Aplicaciones) basado en el lenguaje Object Pascal, creado por Borland y continuado por Embarcadero. Su característica principal es que posee un control de bases de datos muy amplio, compatible con Oracle y a partir de las versiones XE permite aplicaciones multiplataforma dentro de su framework Firemonkey. Rad Studio incorpora también **C++ Builder**. Lazarus es la versión gratuita, multiplataforma y open source compatible y similar a la versión Delphi 7.



Conceptos básicos.

- **Proyecto.** Un proyecto es un conjunto de módulos de formulario, de códigos y de archivos que componen una aplicación. La ventana View ► **Project Manager** muestra todos los archivos que componen una aplicación.
- **Formulario.** Ventana con el diseño (frm). Lleva un código asociado a dicho formulario.
- **Componentes.** Los componentes son los objetos como cuadros, botones, etiquetas... que se ponen en un formulario o ventana desde la **Tool Palette**.
- **Propiedades.** Usando la ventana de **Object Inspector** (F11) podemos acceder a las propiedades o a los eventos del componente. Las propiedades especifican los valores iniciales de las características, tales como tamaño, nombre y posición.
- **Eventos.** Es la respuesta a las acciones del usuario que desencadenan una acción en el programa.

Concepto de código:

Es el texto escrito en un programa. El programa se divide en distintos apartados o subrutinas generalmente como respuesta a un evento y se divide en procedimientos (subrutinas) o funciones.

- **Acciones o subrutinas:** Trozo de código como respuesta a un evento o acción, que no recoge ni devuelve ningún dato.
- **Procedimientos:** Trozo de código que recoge uno o varios parámetros, pero no retornan.
- **Funciones:** Son procedimientos que además devuelven un valor al procedimiento desde donde se le llamó.
- **Diagrama de Flujo:** Representa el esquema gráfico de un algoritmo.
- **Pseudocódigo:** Representa los pasos o procesos básicos del algoritmo en lenguaje local.

Reglas de nomenclatura generales al declarar procedimientos o variables:

- Deben comenzar por una letra
- No pueden contener puntos
- No puedes superar los 255 caracteres
- Nombres de formularios no sobrepasar 40 caracteres
- No pueden tener el mismo nombre que una palabra clave
- Comentarios en el código se inician con: // o entre { }

Eventos y acciones (sobre un componente):

Lista de eventos (Desencadena la acción de un objeto)

Evento	Acción
Click	Al hacer clic con el mouse (o el teclado)
DragDrop	Al soltar un control arrastrado con el mouse
DragOver	Al Arrastrar un control con el mouse.
KeyDown	Presionar una tecla mientras el objeto tiene el foco.
KeyPress	Presionar una tecla y devolver su valor ASCII.
KeyUp	Liberar una tecla mientras el objeto tiene el foco.
MouseDown	Presionar el botón del mouse sobre el objeto.
MouseMove	Mover el puntero del mouse por encima del objeto
MouseUp	Liberar el botón del mouse en el objeto.

Propiedades básicas de los objetos:

Alignment	- Alineación
BevelInner	- borde interior
BorderStyle	- estilo del borde
Caption	- rótulo
TabStop	- Salto tabulación
Color, Cursor	- Color, puntero
Enabled	- Activo
Font	- Tipo letra
Height	- Altura del objeto
Hint	- Etiqueta ayuda
Left	- Posición izquierda
Name	- Nombre del objeto
PopupMenu	- Menú contextual
ShowHint	- Mostrar etiquetas
Top	- Posición vertical
Visible	- Visible
Width	- Ancho del objeto

Delphi Xe Manual

L Darling-Hammond



Delphi Xe Manual:

Manual of Engineering Drawing Colin H. Simmons, Dennis E. Maguire, 2012-04-27 Manual of Engineering Drawing is a comprehensive guide for experts and novices for producing engineering drawings and annotated 3D models that meet the recent BSI and ISO standards of technical product documentation and specifications This fourth edition of the text has been updated in line with recent standard revisions and amendments The book has been prepared for international use and includes a comprehensive discussion of the fundamental differences between the ISO and ASME standards as well as recent updates regarding legal components such as copyright patents and other legal considerations The text is applicable to CAD and manual drawing and it covers the recent developments in 3D annotation and surface texture specifications Its scope also covers the concepts of pictorial and orthographic projections geometrical dimensional and surface tolerancing and the principle of duality The text also presents numerous examples of hydraulic and electrical diagrams applications bearings adhesives and welding The book can be considered an authoritative design reference for beginners and students in technical product specification courses engineering and product designing Expert interpretation of the rules and conventions provided by authoritative authors who regularly lead and contribute to BSI and ISO committees on product standards Combines the latest technical information with clear readable explanations numerous diagrams and traditional geometrical construction techniques Includes new material on patents copyrights and intellectual property design for manufacture and end of life and surface finishing considerations

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Instructors Manual to Accompany Business Data Communications Fitzgerald,1990 Mergent Moody's Industrial Manual ,1999 **Delphi XE Development Essentials** Bob Swart, This manual covers the fundamentals and the new features of Delphi XE 2010 2009 and 2007 compared to Delphi 7 p viii **Практическое программирование**

микроконтроллеров Atmel AVR на языке ассемблера. 3 изд. Ревич Юрий Всеволодович,2014 Atmel AVR AVR AVR

The C++ Report ,1997 The Software Encyclopedia ,1997 Energy Research Abstracts ,1984 Government Reports Annual Index ,1989 **The Software Encyclopedia 2000** Bowker Editorial Staff,2000-05 **Scientific and Technical Aerospace Reports** ,1977 **The African Book Publishing Record** ,1990 PC World ,2002

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