

Sviluppo desktop e mobile con Delphi

LA POTENZA CHE NON TI ASPETTI 💪



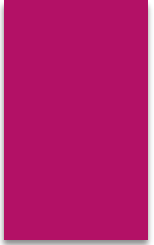
Marco Breveglieri

💻 Software Developer | 🧑🏫 Trainer and Consultant | 📺 Tech Content Creator | 💜 Community lover

Developer, Trainer, Consultant
@ABLS Team (Reggio Emilia)

- ▶ Homepage 🖱️ <https://www.breveglieri.it>
- ▶ Blog 🖱️ <https://www.compilaquindiva.com>
- ▶ Twitch 🖱️ <https://www.twitch.tv/compilaquindiva>
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- ▶ LinkedIn 🖱️ <https://www.linkedin.com/in/marcobreveglieri/>
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- ▶ Delphi Podcast 🖱️ <https://www.delhipodcast.com/>
- ▶ Telegram 🖱️ <https://t.me/compilaquindiva>





begin

Delphi: una panoramica

ESPLORIAMO LA STORIA DI
DELPHI, DALLA NASCITA AI
GIORNI NOSTRI.

Che cos'è Delphi?

Delphi 🏛️ è un ambiente di sviluppo software e un linguaggio di programmazione per lo sviluppo di applicazioni desktop, mobile e web.



Gli albori...



Delphi

RADical Performance Windows Development!

Come to the Delphi launch at 7 P.M. on Tuesday, February 14th in the Gateway Ballroom in the Moscone Center South Hall.

Win FREE product and great prizes! See why Delphi is the next generation in development for Windows, Windows 95, and Client/Server

BEST OF BYTE

BOOTH 702

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Borland

INFO WORLD REPRINT

October 31, 1994 FIRST LOOK Volume 16, Issue 44

Delphi95: Borland's definitive statement Borland's new GUI object-oriented programming environment is a hit

BY SUSAN RYAN

Delphi95 is the code name of Borland International Inc.'s new GUI object-oriented programming environment. The name is singularly inappropriate, because Delphi was the oracle famous for giving ambiguous answers. Borland's Delphi, by contrast, gives developers exactly what they need to create complex applications posthaste.

Delphi95 is Borland's answer to Visual Basic and is often referred to as Borland's "Visual Basic Killer." However, with Delphi95's truly object-oriented framework, optimizing compiler, and a seemingly interminable list of features and utilities, it looks as though Borland is answering Visual Basic's addition problem as though it were a quadratic equation.

Delphi95 is built around a true Object Pascal compiler. It produces stand-alone executable files, not pseudocode. Particularly for larger applications, the performance gains can be substantial over Visual Basic, Powerbuilder, SQL Windows, or similar applications development environments. Clarion for Windows, another rapid applications development environment for Windows, is the closest thing to competition for Delphi 95, since Clarion is built around a compiler too. Only Clarion isn't nearly as object-oriented in design as Delphi 95.

Purists may object to the use of Pascal over C++ for the guts of object-oriented Delphi 95, but it could work out to be the ideal compromise. On the one hand, it's a language built to plumb more profound programming depths than Basic (real programmers, after all, don't use Basic). But the structural constraints of the Pascal language won't let you



To populate a form with controls, you click on one of the objects in the tabbed notebook of pre-defined objects, and then drop that object on the form.

get yourself into as much trouble as you can with C++.

BLUE COLLAR OOP. The entire integrated environment familiar to Borland C++ users is here, and then some. This environment works so well and so smoothly with the development process that I have a strong temptation to call this object-oriented programming for the layman. It's easy to learn, and it's easy to build sophisticated applications with minimal effort.

Like so many of the visual development tools hitting the market, Delphi 95's integrated development environment (IDE) takes the approach of an on-screen form upon which you drop controls and other objects. At times, though, Delphi 95 gives you more on-screen information about what you're building than many other visual environments. Opposite the form there is an Object Inspector on the left, showing the properties and events associ-

ated with the objects on screen. Atop the form sits a toolbar with objects and controls to draw upon for your application. If it seems as if there are an overwhelming number of these icons on the toolbar, there are; but they are organized well, using the tabbed-book metaphor popularized by OS/2 and now found in everything from Quattro Pro to Windows 95.

The tabs break up the controls into logical groups — the premiere standard components such as radio buttons, list boxes, buttons, and other window controls; graphics objects; file objects; database objects; and so on. After working with it for a little while, I began to know what tab to select for any given operation, so the concept works well. There is room on the palette for controls of your own (one of the things you may want to add immediately is a spin-button, which is mystifyingly absent from the toolbar). Delphi 95 can use custom VBX controls, and it will support OLE 1.0 and



Borland Delphi for Windows

RADical performance Windows development

Delphi is the only Windows development tool to combine the Rapid Application Development (RAD) benefits of visual component-based design with the power of an optimizing native code compiler and scalable database access.

Delphi represents the next generation in:

- Performance—with the world's fastest compiler
- Rapid Application Development—via visual Two-Way-Tools™
- Component Reuse—a true object-oriented environment
- Scalable Database Access—the fast track to client/server

The fastest way to the fastest applications

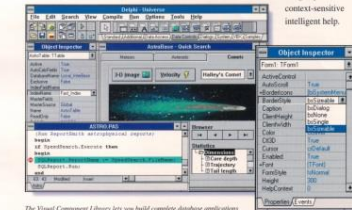
Delphi is the next generation Windows development tool, combining the most intuitive visual design environment with the unrivaled performance of a world-class optimizing native code compiler. It compiles Windows applications at more than **350,000 lines per minute**. An automatic MAKE facility ensures that only code that has been changed is recompiled for maximum efficiency, and the built-in assembler allows for ultimate fine-tuned performance.

"It's going to change our lives, you know."

—J.D. Hildebrand, Editor
Windows Tech Journal

RAD, from prototype to production

The comprehensive suite of visual design and debugging tools accelerate development so you move seamlessly from prototyping to deployment. You'll create high-performance applications in record time with the gallery of reusable forms, project templates, programming experts, and context-sensitive intelligent help.



The Visual Component Library lets you build complete database applications in minutes.

Two-Way-Tools give you complete control of your code.

The resulting executable files (EXEs) are lean, highly efficient, and run up to **10 to 20 times faster** than interpreted p-code. Delphi executables are immediately deployable, royalty-free, and require no runtime interpreter Dynamic Link Library (DLL), so maximum performance is guaranteed.

And smart computer-based tutorials guide you through your project and help explain concepts.

The Object Inspector™ provides complete access to properties and events of a selected component, with smart Property Editors for

<https://delphi.embarcadero.com/>
 <https://www.marcocantu.com/delphibirth>

40 anni di Pascal

Jan 1974 – Pascal Newsletter

January 1974

PASCAL NEWSLETTER

Number 1

FROM THE EDITOR



This is the first
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PASCAL c
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File Edit Search Run Compile Debug Tools Options Window Help

[.] NONAME00.PAS 1=[+]

```
begin  
writeln('Happy 40th birthday Turbo Pascal!');  
readln;  
end.
```

4:5

F1 Help F2 Save F3 Open Alt+F9 Compile

PASCAL
\$49.95

Standard Pascal for Your IBM PC, MS-DOS, CP/M 86, and CP/M 80 Computers

Hang on to your seats! It's Turbo Pascal.

	Turbo Pascal	IBM	AT
8 & 16 bit	YES	NO	YES
Source-level Code	YES	NO	YES
Assembly-level Code	YES	NO	YES
Language Extensions	YES	NO	NO
Compiler	1.0	4.0	4.0
Debugger	1.0	4.0	4.0
Linker	1.0	4.0	4.0
Price	\$49.95	\$149.95	\$149.95

There has never been a Pascal compiler this good with so many powerful features. We know what you've been waiting for: a true Pascal compiler that works fast, offers a full-screen editor, and has a great price. Turbo Pascal has it all. First, we've included a full-screen, interactive full-screen, interactive compiler editor. It not only lets you correct errors, but during program compilation the cursor even jumps directly to the error and waits for your correction. No waiting. Second, it takes only 200K of disk space, including the editor, and on your microcomputer, you need all the space you can get. Turbo Pascal is...

80 to 70 times faster during compilation, as well as simulation than Digital Research's P-1 or JAT Pascal.

Hard to believe your good fortune on the price? Don't worry, see the Borland, and we produce only quality, state-of-the-art software. Computers such as Turbo Pascal, Pascal Compilers, Assemblers and others include our software products, so you can't go wrong. Please your order today. And we'll ship your Turbo Pascal out fast. For VGA and TurboCard orders, let us know.

My system is: 8 bit 16 bit
Operating system: CP/M 80 MS-DOS PC DOS
Compiler Borland Pascal
Linker Borland Linker
Please be sure model number and format are correct.

BORLAND INTERNATIONAL
2001 10th Avenue North
Scotts Valley, California 95067

NAME _____
ADDRESS _____
CITY/STATE/ZIP _____
TELEPHONE _____

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Distributor and Distributor Inquiries welcome.

RAD Studio 12 Easter Egg

tp_40th - RAD Studio tp_40th.dproj [Built]

File Edit Search View Refactor Project Run Component Tools

tp_40th x

```
program tp_40th;  
{$APPTYPE CONSOLE}  
{$R *.res}  
uses  
  System.SysUtils;  
begin  
  Writeln('Happy 40th birthday Turbo Pascal!');  
end.
```

13: 1 Insert Delphi ANSI

Messages

Checking project dependencies...

Compiling tp_40th.dproj (Debug, Win32)

brc32 command line for "tp_40th.vnc"

dcc32 command line for "tp_40th.dpr"

Success

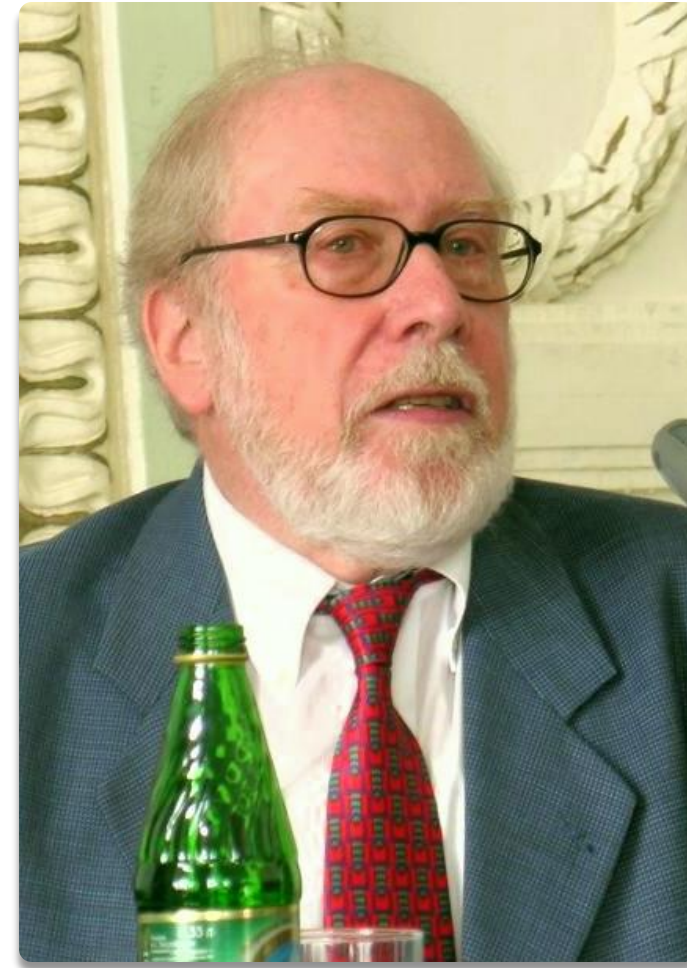
Elapsed time: 00:00:25.9

Build Output

Niklaus Wirth

15 febbraio 1934

1 gennaio 2024



 https://it.wikipedia.org/wiki/Niklaus_Wirth

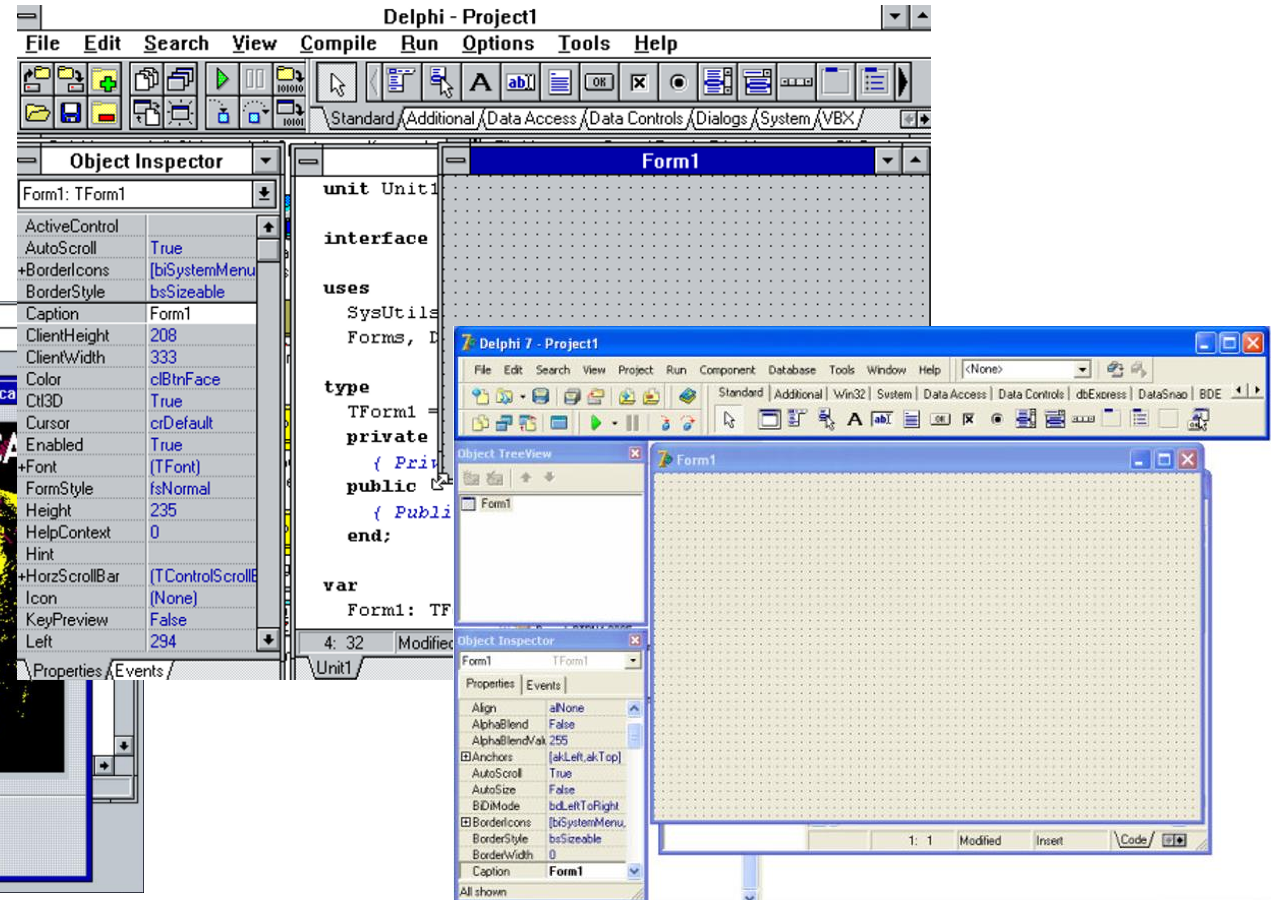
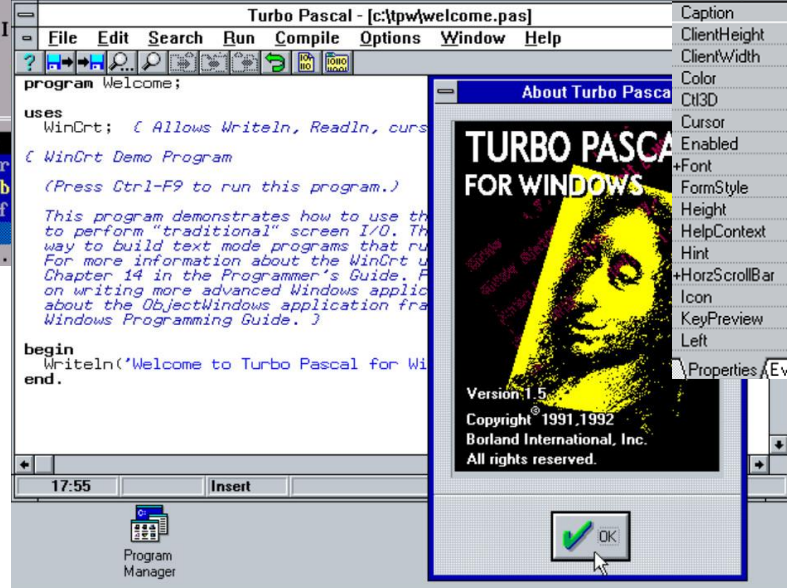
Com'era...

The screenshot shows the Turbo Pascal 7.0 IDE. The main window displays a Pascal program named PRNFLT.PAS. The code defines constants, types for character arrays, and a program unit that uses the WinCrt library. An 'About' dialog box is open, showing 'Turbo Pascal Version 7.0' and 'Copyright (c) 1983,92 by Borland International, Inc.'.

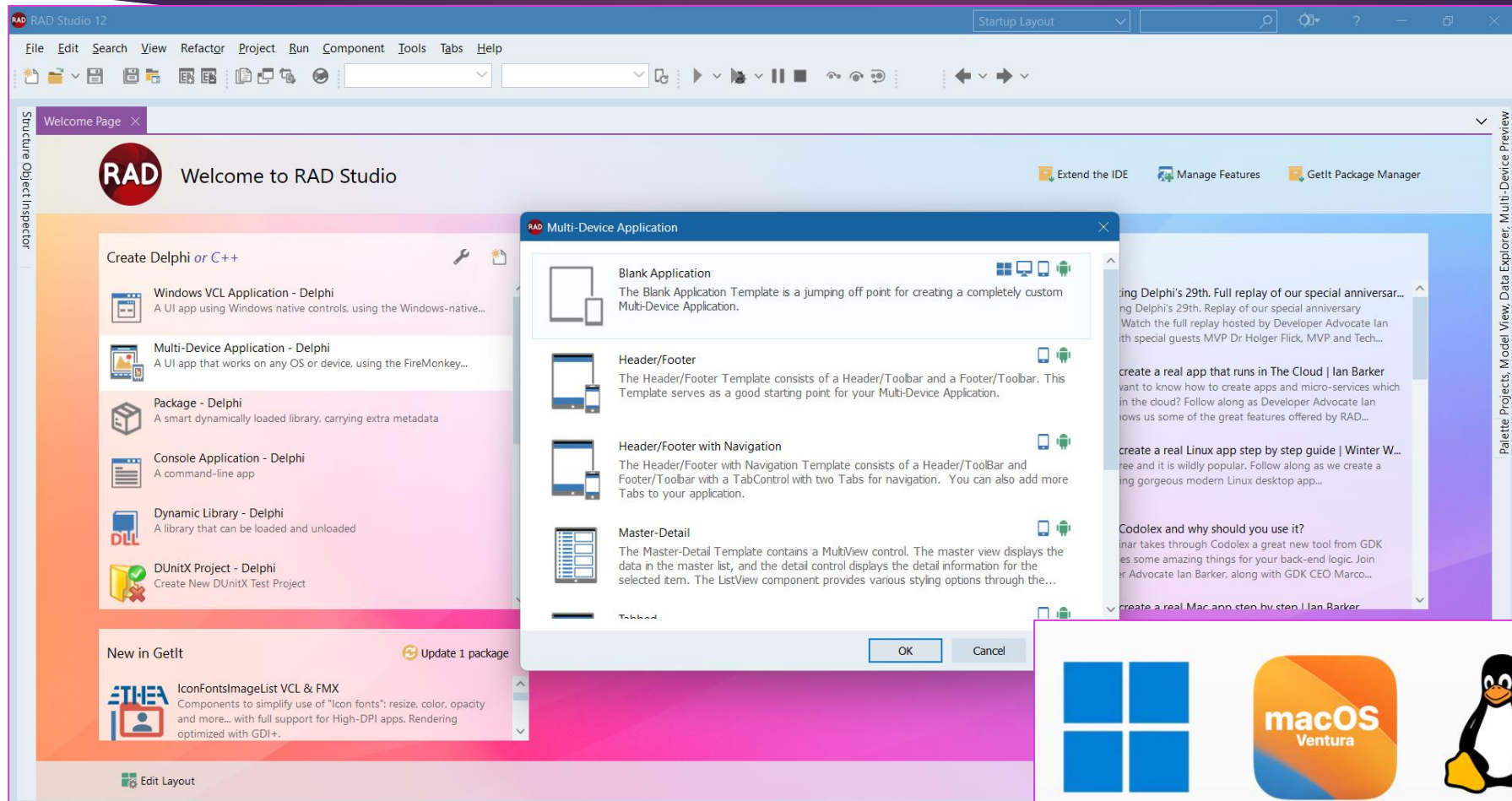
```
File Edit Search Run Compile Debug Tools Options Window Help
PRNFLT.PAS
const
  MaxAttributes = 8;

type
  TPCCharArray = array[0..MaxAttributes-1] of char;
  PTPCharArray = ^TPCCharArray;
  PPrinterCodes = ^TPCCharArray;
  { Number of printer codes supported by the printer }
  PreambleCount: Byte;
  { Pointer to a printer code array }
  Preamble: PTPCharArray;
  { Pointer to a printer code array }
  CodeArray: PTPCharArray;
  { Array of indexes into the printer code array }
  Attributes: array[0..MaxAttributes-1] of Byte;
  { Codes sent at the start of a line }

begin
  WriteLn('Welcome to Turbo Pascal for Windows');
end.
```



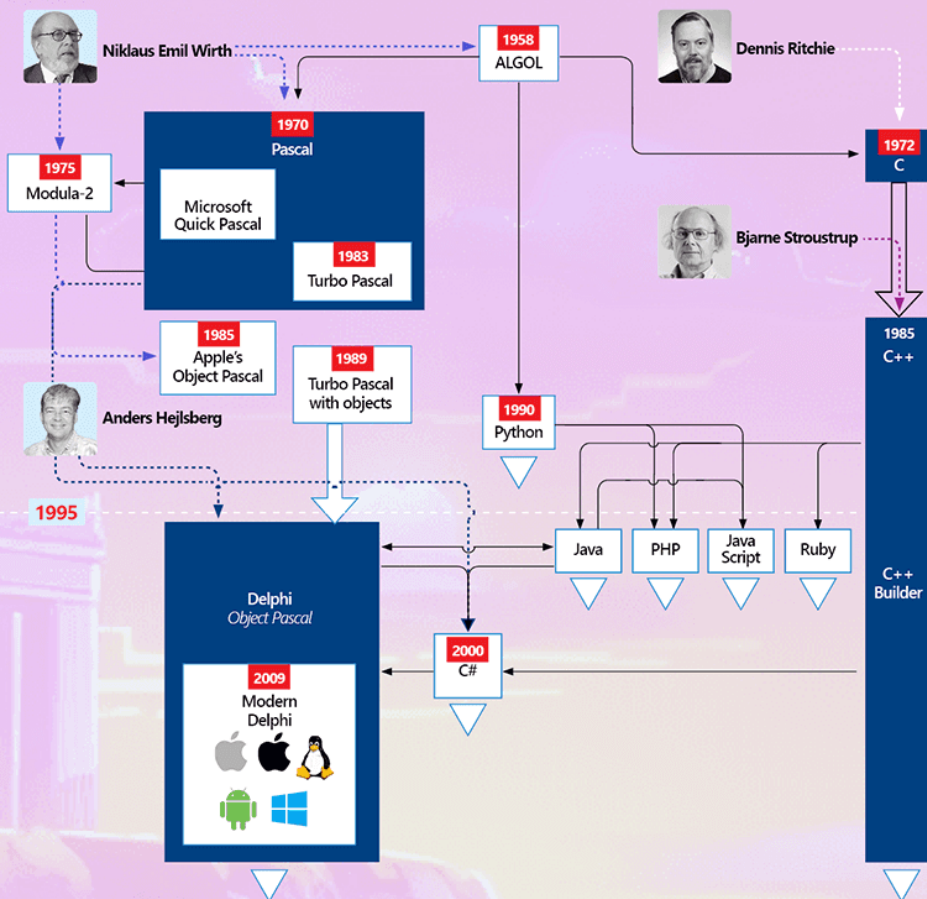
...e com'è oggi



It's Delphi's
29th!

Celebrating 29 Years of Delphi

embarcadero



Building The Future!

Android

iOS

Amazon Web Services

Windows

Python Integration

macOS

Linux

Delphi 12

It's Delphi's
29th!

Celebrating 29 Years of Delphi

embarcadero



Delphi proudly celebrates its 29th anniversary

#Delphi29th

Dalla teoria...
...alla pratica!

LE CARATTERISTICHE DI
DELPHI E... UNA TONNELLATA
DI DEMO! 💣

Perché Delphi?

👉 **Produttività e basso «Time to Market» ⚡**

- ▶ Sviluppo RAD e «low code» (sin da quando non esistevano questi termini)
- ▶ Interfaccia drag & drop basata su componenti (più di 400!) e WYSIWYG

👉 **Compilazione ultra-fast! 🚀**

- ▶ Il compilatore Windows è uno dei più performanti esistenti (1 milione di righe di codice in meno di 5 secondi 🕒)
- ▶ Produce app native, anch'esse ottimizzate e performanti

👉 **Supporto cross-platform e cross-device 🧩**

- ▶ Crea applicazioni native per tutte le piattaforme più diffuse del momento (Windows, Mac OS, iOS, Android, Linux), ma anche HTML5 e pure Docker!
- ▶ Fornisce accesso diretto alle API del SO, alcune delle quali già importate, quando i componenti presenti non coprono la funzionalità desiderata
- ▶ Include il codice sorgente delle sue librerie RTL (Run-Time Library), VCL e FMX

👉 **Codice leggibile e sintassi elegante 📖**

- ▶ Codice chiaro e facile da leggere e capire
- ▶ Supporta tutte le feature tipiche dei moderni linguaggi (Generics, Closures, Attributes/Decorators, Class Types, ...)

👉 **Accesso ai dati senza limitazioni 🤖**

- ▶ Supporta tutti i database più diffusi, sia RDBMS sia NoSQL sia altre tipologie (SQL Server, Oracle, MySQL, MongoDB, SQLite, InterBase/Firebird, PostgreSQL, ...)
- ▶ Supporta diverse librerie di accesso ai dati (FireDAC, dbExpress, ADO, IBX, ...)

👉 **Compatibilità all'indietro 🔄**

- ▶ Uno dei pochi tool - se non l'unico - che offre una «backward compatibility» quasi totale e consente di mantenere progetti vecchi, o portarli a una delle versioni più recenti per riutilizzare tutto il codice e modernizzarlo, o portarlo su altri ambienti e piattaforme, o reimpiegarlo in soluzioni di tipologia differente



Demo time!

Scateniamoci alla tastiera!



Riepilogando...



Punti di forza

- Delphi è veloce! 🚀
- Deploy facile e immediato.
- Supporto per tutte le piattaforme.
- Release continue di patch e update.
- Molto semplice da utilizzare.
- E' un tool indipendente.
- Ha una fervente community di sviluppatori attivi, partner e MVP.



<https://www.embarcadero.com/products/delphi>

La scelta di molti

1Password

XAMPP

TreeSize



FL STUDIO



SupRemo
by Nanosystems



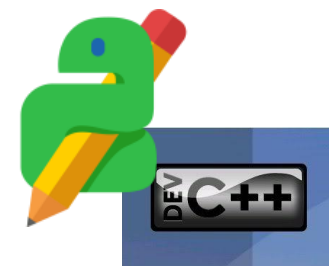
VISUINO

stop
motion
pro
now everyone's a professional

BEYOND
COMPARE
Reconcile Your Differences!

HeidiSQL

skype™



Risorse e approfondimenti

TUTTE LE COSE DA SAPERE
PER INIZIARE CON DELPHI ED
ENTRARE NEL SUO
FANTASTICO MONDO

Delphi Community Edition



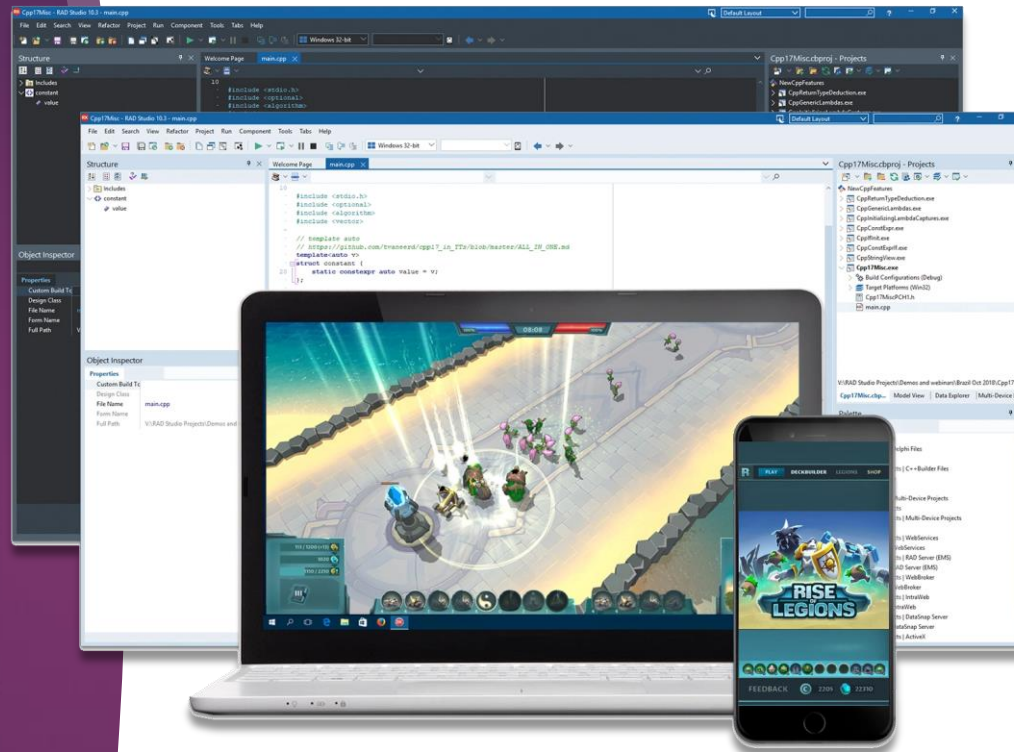
- Consente di creare app desktop e mobile per Windows, Mac OS, iOS e Android
- E' disponibile gratuitamente per sviluppatori *freelance*, *hobbisti*, *startup*, *studenti* e organizzazioni *no-profit*
- Include IDE, editor, SDK, compilatori, tool di debugging, driver dei principali database locali
- E' l'ideale per chi inizia, ma anche per chi sviluppa già



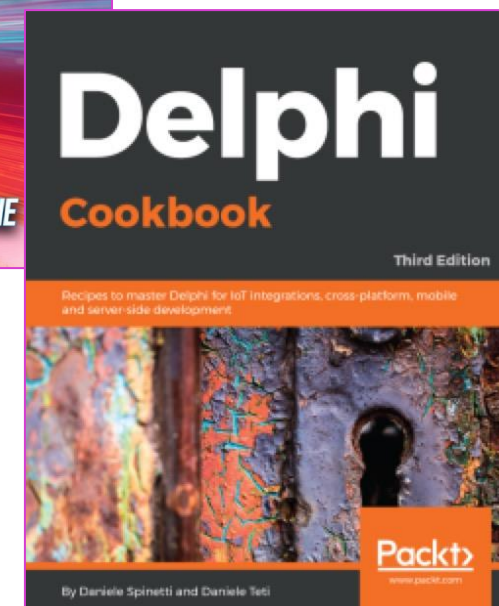
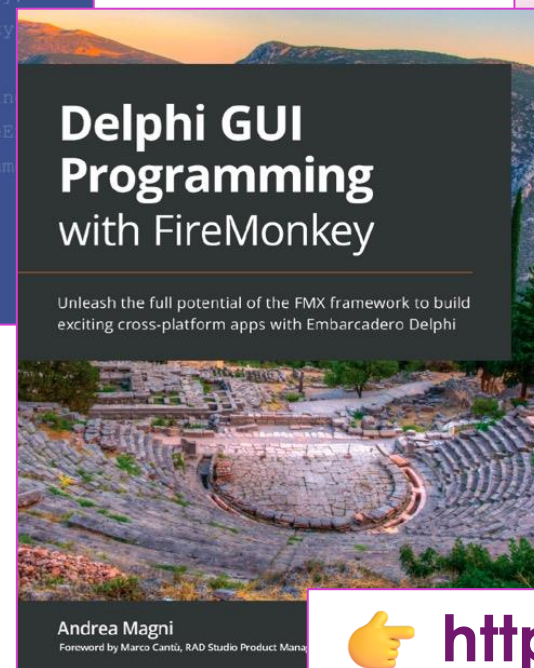
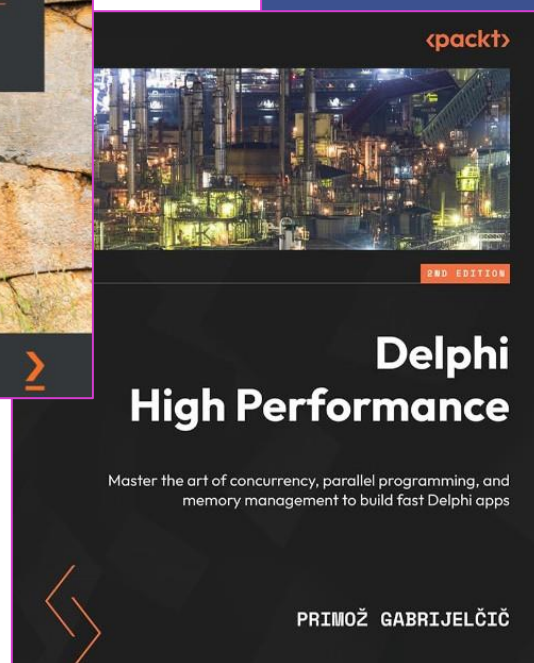
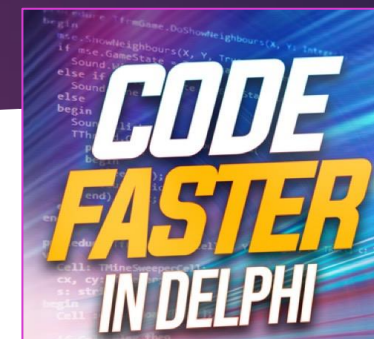
<https://www.embarcadero.com/products/delphi/starter>



<https://learndelphi.org>



Libri consigliati



<https://delphi-books.com>

Librerie e componenti

CASTLE
GAME ENGINE



SKIA
FOR DELPHI

VCL

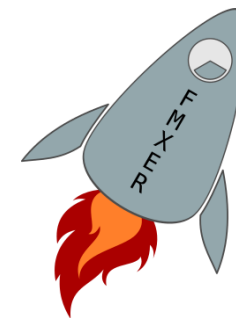


the most popular Delphi project on github!
delphimvcframework
3.4.0-neon is out!



DEB
DELPHI EVENT BUS

WiRL
RESTful Library for Delphi



Spring4



Community



<https://thecmmbay.com/community/mobile-dev>



delphiedintorni.it
delphi italian community

<https://www.delphiedintorni.it>

<https://blogs.embarcadero.com/community/>

Conferenze ed eventi

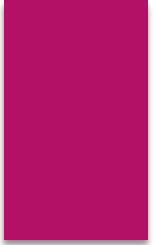


- **Delphi Day (Piacenza e Padova)**
<https://www.delphiday.it>

- Gratuita e aperta a tutti
- 2 edizioni annuali
- 100+ sviluppatori
- Talk e workshop

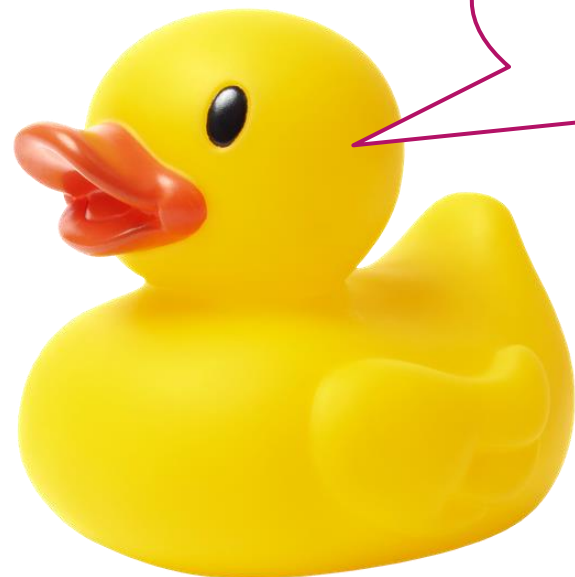
- **ITDevCon Delphi Conference**
<https://www.itdevcon.it>

- 2 edizioni: *Winter* e *Spring*
- 60+ sviluppatori e speaker
- 2 giorni di sessioni full-immersion
- Licenze, corsi e sconti in palio
- Tanto divertimento (e tanto cibo)



end.

Q & A



Chiedetemi tutto!

Grazie!

