



delphi
START 2025

Alla scoperta di Delphi

Marco Breveglieri



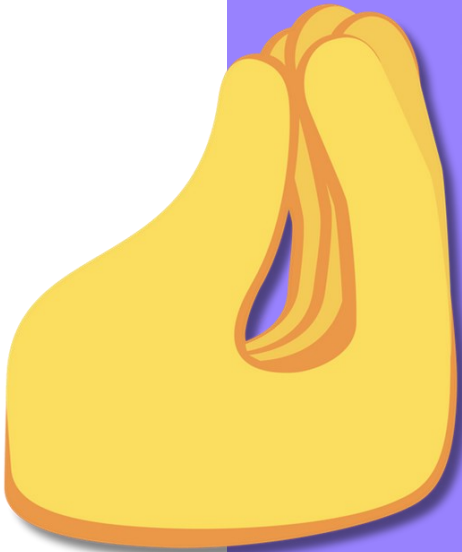
Imperia, 24 Settembre 2025



bit Time

Hai detto “Delphi”?





```
**** COMMODORE 64 BASIC V2 ****
64K RAM SYSTEM 38911 BASIC BYTES FREE
READY.
10 PRINT "HELLO WORLD"
```



Perché Delphi.





Elegante e leggibile

```
uses
  System.SysUtils, System.Generics.Collections;

type

  TApple = class
    Name: string;
  end;

  TAppleDictionary = TObjectDictionary<string, TApple>;

begin
  var Apples := TAppleDictionary.Create([doOwnsValues]);

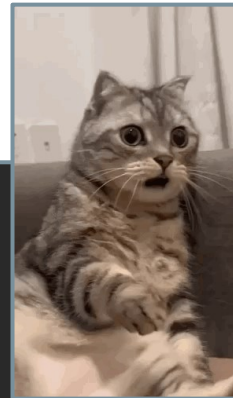
  try
    var A := TApple.Create;
    A.Name := 'my apple';
    Apples.AddOrSetValue('apple key 1', A);

    for var ApplePair in Apples do
      Writeln('Found apple key->value: ' +
        ApplePair.Key + '->' + ApplePair.Value.Name);

    Apples.Remove('apple key 1');
  finally
    FreeAndNil(Apples);
  end;
end.
```



```
type ShowMe = {
  a: string;
  b: number;
} & Omit<{
  c: boolean;
} & Record<"d", string[]>, "c">
```





Ispirante

What are Go's ancestors?

Go is mostly in the C family (basic syntax), with significant input from the Pascal/Modula/Oberon family (declarations, packages), plus some ideas from languages inspired by Tony Hoare's CSP, such as Newsqueak and Limbo (concurrency). However, it is a new language across the board. In every respect the language was designed by thinking about what programmers do and how to make programming, at least the kind of programming we do, more effective, which means more fun.





Moderno e type-safe

```
function MakeAdder(y: Integer): TFuncOfInt;  
begin  
    Result := function(x: Integer): Integer  
        begin  
            Result := x + y;  
        end;  
end;
```

```
procedure TFoo.CompareAndPrintResult<T>(X, Y: T);  
begin  
    var Comparer := TComparer<T>.Default;  
    if Comparer.Compare(X, Y) = 0 then  
        WriteLn('Both members compare as equal')  
    else  
        WriteLn('Members do not compare as equal');  
end;
```





Veloce! ⚡ ⚡ ⚡

This Delphi project contains 1 million lines of Object Pascal code. The code includes functions, return values, and assignments. The kind of stuff that isn't optimized away.

Build

Project:	C:\...\Embarcadero\Studio\Projects\TheMillion.dproj
Compiling:	Done.
Current line:	0
Total lines:	1000000
Hints:	0
Warnings:	0
Errors:	0

Million Lines of Code

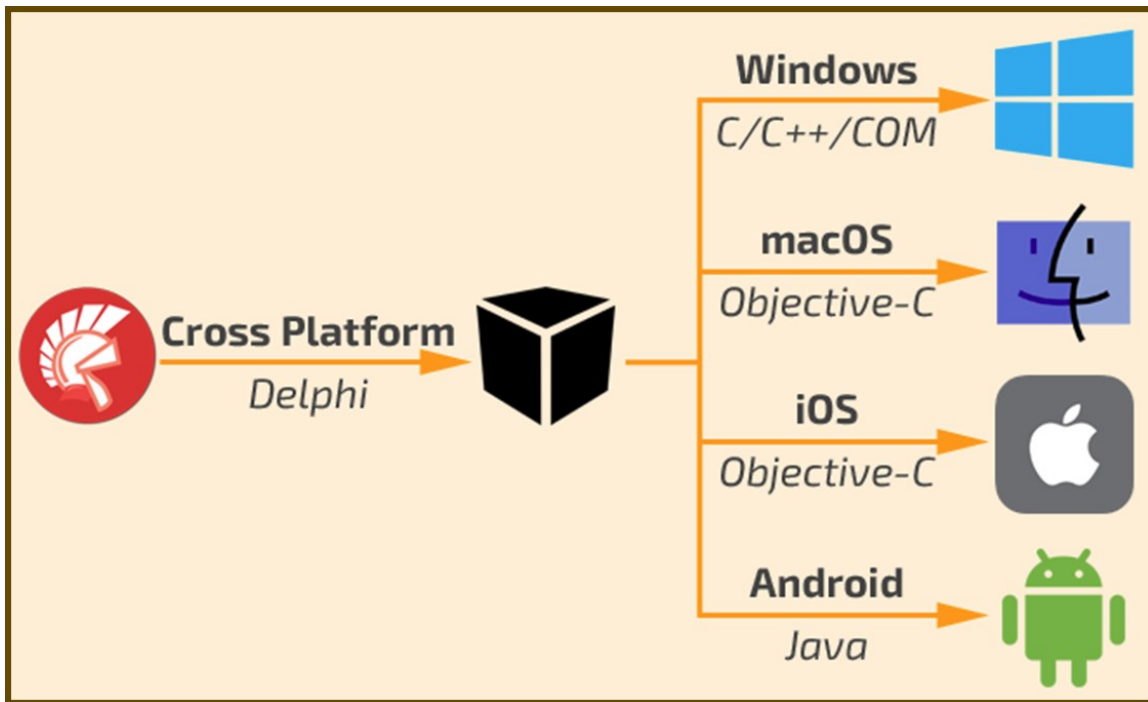
Border	345
Timer	404

00:00:05





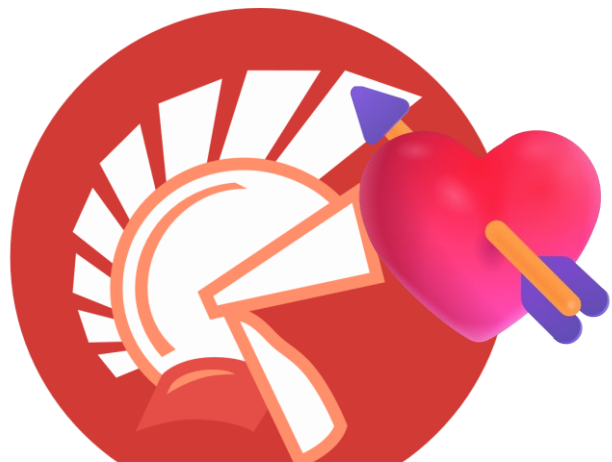
Nativo e cross-platform



Delphi e il Pascal



Esistono tanti Pascal nel Multiverso



Delphi



FPC
Lazarus



Oxygene



Che cos'è Delphi?



Delphi 🏛️ è un ambiente di sviluppo software basato sull'approccio RAD e anche un linguaggio di programmazione per creare applicazioni desktop, mobile e web.



Perché è speciale?



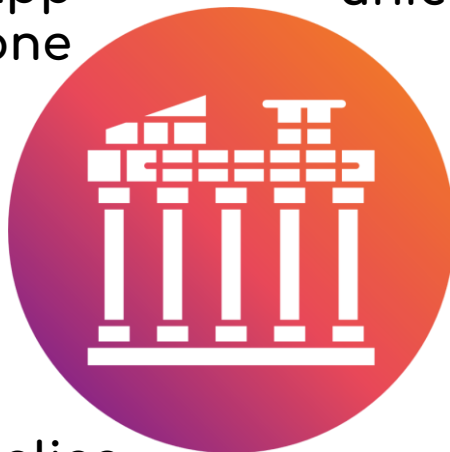
Sviluppo rapido di app
“true RAD” e prototipazione



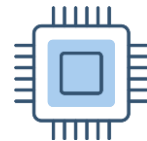
Low or zero code,
orientato al riuso



Linguaggio semplice,
immediato ed elegante



Codice veramente nativo e
unico per tutte le piattaforme



Progettazione visuale
oppure solo codice:
scegli tu!



Multi-Device & Multi-Platform:
desktop, mobile, web!



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Cosa posso farci di bello?



Applicazioni desktop
(Windows, Mac)



Applicazioni mobile
(Android, iOS)



REST APIs
(Apache, IIS, Windows, Linux)



Console App
(Windows, Linux)



Web Services
(Apache, IIS, Windows, Linux)



Android Services



SSR Web Apps
(Apache, IIS, Windows, Linux)



Dynamic Link Libraries (DLLs)
(Windows, Linux)



Docker Apps
(Windows, Linux)



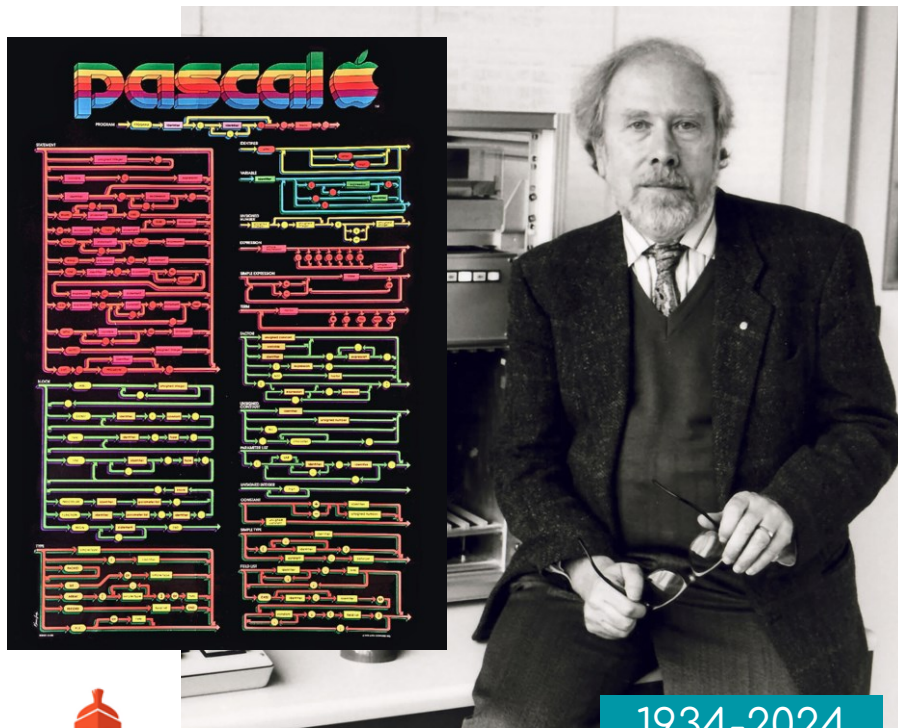
COM/ActiveX Servers
(Windows only)



Le origini



Niklaus Wirth



1934-2024

- 1970: presenta il linguaggio Pascal
- 1978: crea il Modula-2, come evoluzione del linguaggio Pascal
- 1987: Inizia a lavorare a Oberon, linguaggio e sistema operativo desktop, che ha mantenuto fino al 2020!



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Da Pascal a Delphi

- 1980: Borland dà vita a Turbo Pascal, apprezzato per velocità di compilazione ed esecuzione
- 1990: Borland inizia a lavorare a un progetto, nome in codice "Delphi", una nuova versione object-oriented del Turbo Pascal
- 1995: nasce Delphi, con la prima versione a 16-bit per Windows 3.1



Anders Hejlsberg

Creatore di Turbo Pascal, Delphi, C# e TypeScript



Borland



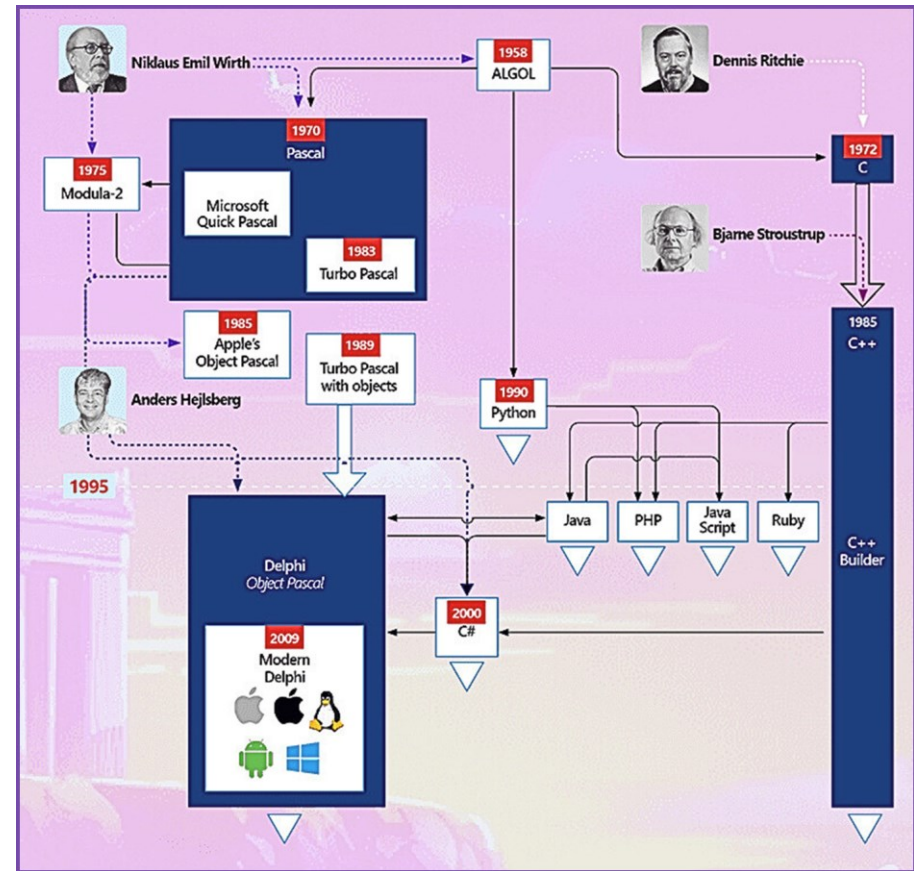
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Già che siamo quasi a ottobre...



Amici coetanei

- 1958: ALGOL
- 1970: Pascal
- 1972: C
- 1975: Modula-2
- 1983: Turbo Pascal
- 1985: C++
- 1989: Turbo Pascal with Objects
- 1990: Python
- 1995: Delphi, Java, JavaScript
- 2000: C#
- 2008: Python 3
- 2009: Modern Delphi



Qualche nome conosciuto...

1Password

XAMPP

TreeSize



FL STUDIO

innoSETUP

SupRemo
by Nanosystems

IcoFX

VISUINO

stop
motion
pro
now everyone's a professional

BEYOND
COMPARE
Reconcile Your Differences!

HeidiSQL



RISE
OF
LEGIONS

skype



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Lo proviamo?



Fatelo a casa!

Programmare con Delphi, ovviamente... 🤔



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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>



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Tante librerie da provare!

CASTLE
GAME ENGINE



SKIA
FOR DELPHI



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



DEB
DELPHI EVENT BUS

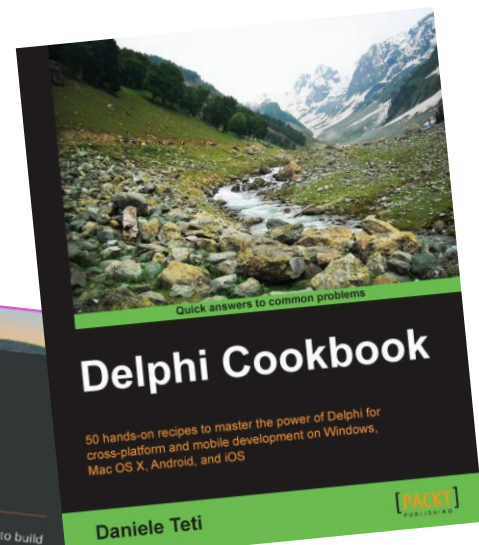
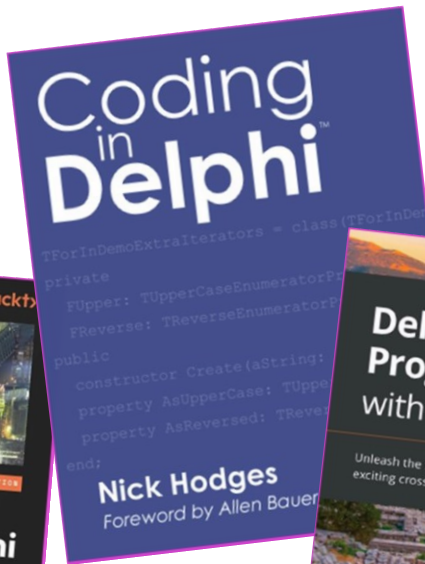


Spring4D



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Libri e documentazione



<https://delphi-books.com>

Domande?



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Blog tecnico

<https://www.compilaquindiva.com>



Delphi Podcast

<https://www.delhipodcast.com>



Canale Twitch

<https://twitch.tv/compilaquindiva>



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Thanks!

