

RAD Studio **2012 a 2022** **Uma Década de Inovação**



Apresentação



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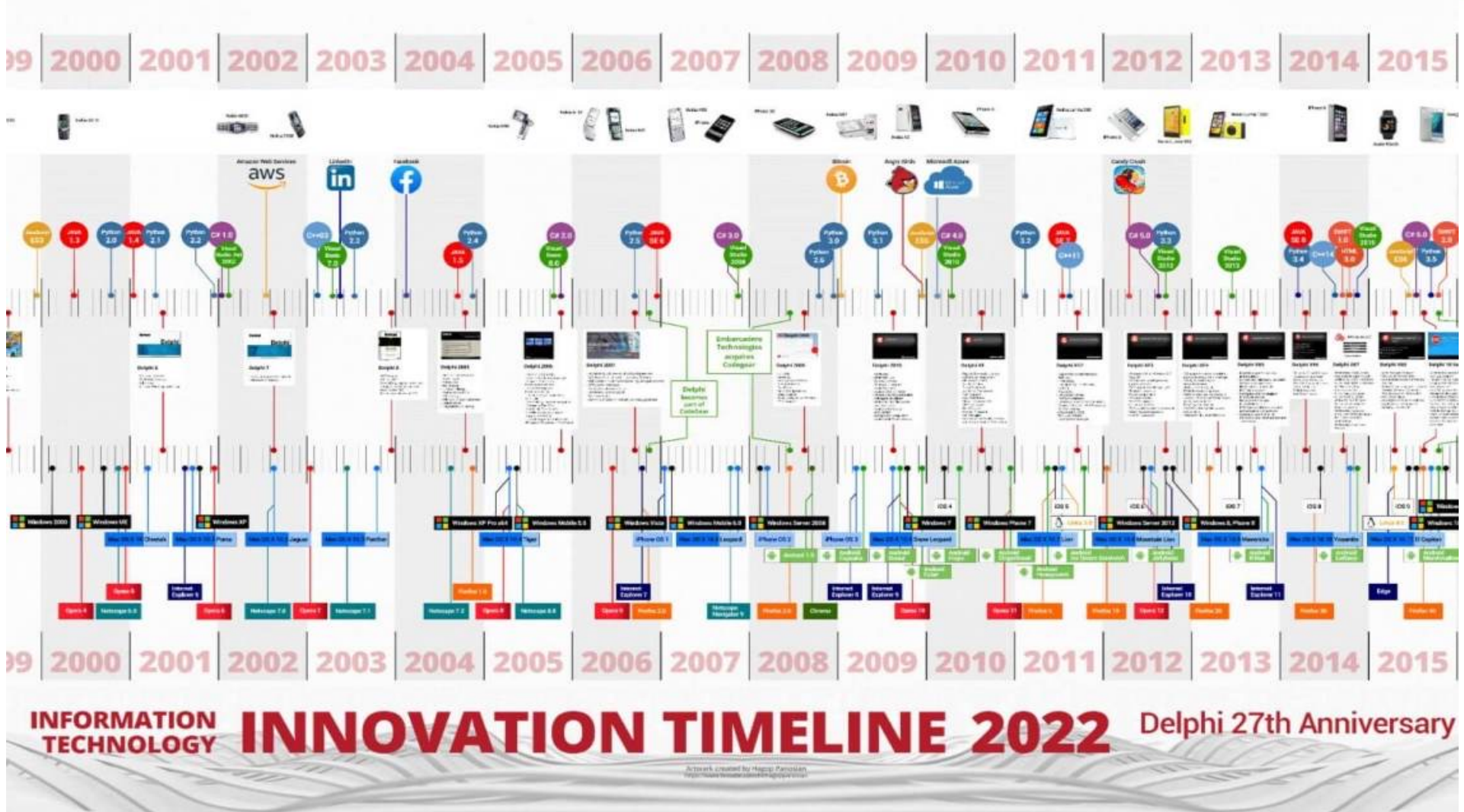
Uma Década de Inovação

De 2012 a 2022, do RAD Studio XE3 até RAD Studio 11

Agenda

- Linha do Tempo
- Versões XE
- Versões Nomeadas
- Migração
- Perguntas





<https://blogs.embarcadero.com/delphi-anniversary-innovation-timeline-infographic/>

XE2

- 64-bit Delphi compiler for Windows FMX and VCL
- FireMonkey application platform
 - create multi-platform, multi-device applications from one codebase
- DataSnap mobile connectors
- LiveBindings engine
- FastReport reporting tool

XE3

- C++ Builder 64-bit Windows compiler
- Windows 8 support
- OS X Mountain Lion and Retina
- Display support
- Visual LiveBindings
- Enhanced FireMonkey styles, audio/video and 3D

XE4

- Develop iOS apps with Delphi iOS ARM compiler, toolchain, new visual development environment and controls for iOS
- IBLite database for iOS with unlimited deployment license
- FireDAC – Powerful, fast and easy data access
- FireMonkey sensors support for location, orientation and motion
- FireMonkey Frames and new TListView component
- OS X full screen mode

XE5

- Develop Android apps with Delphi and iOS apps with C++
- New mobile components for Android and iOS
- REST Client support to access cloud based RESTful web services
- FireDAC integrated into the Delphi install and core components included in the Professional edition
- IBLite database for Android with unlimited deployment license
- Develop iOS 7 apps

XE6

- Application Tethering components
- Windows Taskbar component
- Cloud Service (BaaS) integration with components for Kinvey and Parse
- New VCL Styles
- VCL sensor components
- Mobile in-app purchase and in-app advertising functionality
- Build Android apps with C++
- C++ Package Support for 64-bit Windows
- Find definition and find references for C++
- FireDAC enhancements and Informix driver updates
- Database Explorer for FireDAC
- DirectX 11 support
- Apache support (WebBroker)

XE7 (1/2)

- Parallel Programming Library (PPL) allows you to easily parallelize your app and let it take advantage of multiple cores
- Delphi language improvements! (String-like syntax for arrays.)
- FireMonkey improvements:
 - Full-screen mode on Android
 - Pull to refresh on iOS
 - Splash screen support in Android
 - Deployment improvements
 - Edit and calendar controls are native on iOS
 - And many more
- The multi-device designer lets you design your UI once, and tweak per-device

XE7 (2/2)

- Git support in the IDE! Access this popular version control system
- Bluetooth support, including for app tethering
- Much faster XML with OmniXML
- Windows taskbar jump lists
- Library improvements:
 - Perl-compatible regular expressions updated
 - Web encoding and decoding
 - Multiple display support - list all screens, and their location and dimensions

XE8

- Six new native controls in FireMonkey for iOS
- Web browsers can be used on desktop platforms
- Maps!
- Native HTTP client API
- Beacons
- 64-bit C++ compiler for iOS
- Multi-device preview, to see how your UI will work on multiple devices at once
- Mercurial! Use this popular version control system from the IDE

10.0 Seattle (1/2)

- Clang-enhanced compiler for Win32! Use modern C++ for both 32- and 64-bit Windows
- Speed up your C++ development with parallel compilation
- FireMonkey improvements:
 - Windows 10 support
 - Drag and drop!
 - Native controls on Windows
 - Android intents
- System notifications, Android touch animations, iOS list view appearances, mouseover hints, and more!
- VCL improvements:
 - Windows 10 controls
 - Styling improvements
- Improved JSON support
- Library improvements for Bluetooth, SHA2 hashes, Threadpool, Zip

10.0 Seattle (2/2)

- Say goodbye to IDE memory errors - it can use 4GB!
- Android services with Delphi
- Castalia integration:
 - Clipboard history
 - MultiPaste
 - Navigation toolbar - easily move through your code
 - Structural highlighting
 - Sync method prototypes and implementation
- AutoRecover files
- Object Inspector improvements
- Great database improvements:
 - Compress transmission of FireDAC datasets in DataSnap
 - OpenSSL not required for some HTTPS
 - MongoDB in FireDAC
 - Debug iOS64 apps!
- Unit test your mobile apps with DUnitX for iOS and Android

10.1 Berlin

- Windows 10 Store Packaging Support through Windows Desktop Bridge
- FireUI App Previews for previewing changes in the Form Designer in real time on multiple devices
- ListView Item Designer
- ThingConnect IoT Components (BLE and Z-Wave)
- New Calendar Components
- IDE Productivity Enhancements:
 - Method Toxicity Metrics,
 - Bookmarks stack, QuickEdits
 - Floating Form Designer
- New FireMonkey components
- DirectX 12 support on Windows
- Enhanced multi-platform support

10.2 Tokyo

- Delphi Linux Compiler
- RAD Server Multi-Tenancy Support
- RTL updates (HTTP, Linux, App
- Tethering, HASH functions)
- C++ Builder improvements for Debugging, CodeGen, Mobile and linker memory doubled!
- iOS 10 and macOS Sierra debugging support
- New DARK theme IDE
- New VCL controls (Win10 style): TCardPanel, TStackPanel, TDatePicker, TTimePicker
- TDataSet mapping to JSON for JavaScript client support, including Sencha ExtJS
- RAD Server Single/Multi Site Deployment License (Enterprise and Architect)
- 10.2.3 – Mobile Addon pack included with Professional for new and update subscription customers

10.3 Rio

- Delphi Android 64bit Support
- iOS 12 & iOS 13 macOS Catalina (64bit) Support for Delphi, including Dark Theme support
- Linux Client Application Support for Delphi
- C++17 for Win32
- New & Updated C++ Libraries Inc updates available via GetIt
- Asynchronous C++ Code completion via Language Server Protocol server
- RAD Server Docker Support
- Enterprise Connectors (in Enterprise & Architect Edition)
- Delphi Inline Variable Declaration
- Debugger Improvements
- Extensive IDE UI modernization
- High DPI Image List Support
- TWindowsStore Components
- Multiple Libraries updated inc. FireDAC & Web Clients

10.4 Sydney (1/2)

- Asynchronous Delphi Code completion via Language Server Protocol server
- Hints and errors specific highlighting in the code editor
- New in the Delphi Language
 - Managed Records
 - Unified Cross Platform Memory Management
- New Win64 Clang debugger for C++
- Expanded C++ libraries support (including Eigen, ZeroMQ, SDL2, SOCL, libSIMDpp, and Nematode)
- VCL Style Changes for High DPI
- VCL Per Control Styling
- VCL Component:
- Edge Browser Control
- VCL Component: TTitleBarPanel and Custom Title Bars
- Multi-Resolution Support for VCL Images
- Windows API Updates

10.4 Sydney (2/2)

- (10.4.2) VCL Components TControlList and TControlListButton
- (10.4.2) VCL Component TNumberBox
- (10.4.2) MSIX format for Windows Store Packaging
- (10.4.2) NEW Silent install option
- (10.4.2) Compiler & LSP Performance Optimizations
- Metal Driver GPU Support for macOS and iOS
- Numerous updated FireMonkey Controls and packaging features.
- TWebBrowser on iOS, Apple's new launch screen, TMemo on Windows, Media Player on macOS
- RTL Enhancements to Parallel programming library, Live Bindings, and FireDAC, Amazon AWS
- Unified Online and Offline Installer plus new IDE patch update manager.
- C++ Linker Split Dwarf

11.0 Alexandria (1/2)

- The IDE is now fully HighDPI enabled, improving the usability and look and feel for all daily tasks.
- New IDE Welcome Page (written using the VCL)
- Use VCL Styles at Design Time
- FireMonkey Guidelines at design time help align controls faster
- VCL Component Modernizations: TRichEdit, TTreeView
- Improved Remote Desktop Support for VCL and IDE
- Compile for macOS (M-series Apple Silicon) and use the new universal package for AppStore submission
- Android API and Libraries updated to API 30, Google Play V3 and Android X
- New - Support for multiple classes.dex on Android

11.0 Alexandria (2/2)

- New - Record Helpers for TDateTime (in System.DateUtils) and TCurrency (in System.SysUtils)
- Code Insight (LSP) adds support for Class Helpers, Array Assignment, Include Files and enhances Refactoring Support
- RTL Quality Focus - TZipFile, 64bit improvements for large data structures, Bluetooth LE
- RAD Server Lite
- Code Insight for Delphi inside Visual Studio Code (Preview)

Migração

- Compatibilidade com Unicode
- Migração de 32 a 64 bits
- Base de dados e middleware
- Componentes de terceiros
- Workshop de migração
 - Fale com seu gerente de contas!



Links e Recursos RAD Studio



<https://www.youtube.com/c/embarcaderodobrasil>



<https://www.embarcadero.com/rad-in-action/migration-upgrade-center>



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



<https://www.facebook.com/DelphiBrasil>



<https://learndelphi.org/>



<https://learncplusplus.org/>

<https://www.fast-report.com/en/>

<https://www.fast-report.com/pt/blog/show/frconverter-console-utility/>

<https://www.fast-report.com/pt/blog/show/easy-migration-from-quickreport/>

<https://www.quickreport.co.uk/>

<https://www.nevrona.com/>

<https://www.digital-metaphors.com/products>

[https://docwiki.embarcadero.com/RADStudio/Sydney/en/ReFind.exe, the Search and Replace Utility Using Perl RegEx Expressions](https://docwiki.embarcadero.com/RADStudio/Sydney/en/ReFind.exe,_the_Search_and_Replace_Utility_Using_Pperl_RegEx_Expressions)

https://docwiki.embarcadero.com/RADStudio/Alexandria/en/REST_Client_Library

https://docwiki.embarcadero.com/RADStudio/Alexandria/en/Using_App_Tethering

[https://docwiki.embarcadero.com/RADStudio/Alexandria/en/Using the Parallel Programming Library](https://docwiki.embarcadero.com/RADStudio/Alexandria/en/Using_the_Parallel_Programming_Library)

<https://www.youtube.com/playlist?list=PLIUDMEtO0HdTXISbL5GkXCSjpvbuX15dX>

<https://www.youtube.com/playlist?list=PLIUDMEtO0HdRVhMnFHbgTNTShm5CQOOwj>

<https://www.youtube.com/watch?v=nx5Bkm17oXs&t=2s>



Q & A

Use a seção 'Perguntas' de GotoWebinar

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