

RAD Studio od 2020 do danes



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The Delphi Geek

random ramblings on Delphi, programming, Delphi programming, and all the rest

Tuesday, May 17, 2022

We'll meet again (finally)!

After two long-distance years we are finally moving back to normality, starting with a Slovenian RAD Studio meeting next Wednesday in Ljubljana.

Po dveh letih virtualnih konferenc vas končno spet vabimo na srečanje v živo! Za izgovor za druženje si bomo ogledali novosti v RAD Studiih iz zadnjih dveh let (10.4, 10.4.1, 10.4.2, 11, 11.1), predvsem pa bomo dogodek izkoristili za klepet ob hrani in pijači in ponovno spoznavanje.

[Pridružite se nam 25. maja ob 9h! \(klikni za več podatkov in prijavo\)](#)

Posted by [gabr42](#) at [12:19](#) 1 comment:  

Labels: [C++Builder](#), [Delphi](#), [presentations](#), [RAD Studio](#)

Thursday, October 14, 2021

Slovenian Delphi 11 Webinar

Just a short notice for Slovenian readers - In case you missed it, next week you'll be able to join a Slovenian webinar about Delphi 11.

[Register here](#)

Posted by [gabr42](#) at [15:58](#) No comments:  

Labels: [Delphi](#), [presentations](#)

embarcadero
MVP

Pages

[Presentations](#)

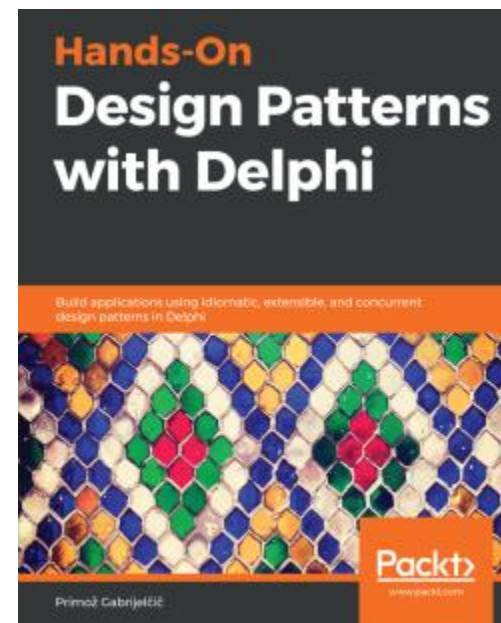
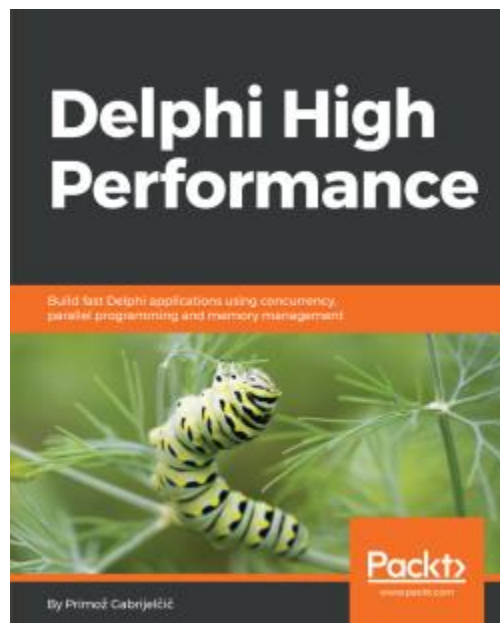
Hands-On
**Design Patterns
with Delphi**



Parallel Programming

with
OmniThreadLibrary

Knjige



<https://delphi-books.com>

RAD Studio od 2020 do danes

10.3.3				10.4 Sydney				10.4.1				10.4.2				11 Alexandria				11.1										
nov	dec	jan	feb	mar	apr	maj	jun	jul	avg	sep	okt	nov	dec	jan	feb	mar	apr	maj	jun	jul	avg	sep	okt	nov	dec	jan	feb	mar	apr	maj
2020													2021												2022					

10.3.3 [Rio]

- Delphi: Android 64-bit, iOS13, macOS Catalina
- RAD Server Docker
- Izboljšan App Tethering
- Izboljšane iOS potisna obvestila
- Izboljšan razhroščevalnik

10.3.3				10.4 Sydney				10.4.1				10.4.2				11 Alexandria				11.1										
nov	dec	jan	feb	mar	apr	maj	jun	jul	avg	sep	okt	nov	dec	jan	feb	mar	apr	maj	jun	jul	avg	sep	okt	nov	dec	jan	feb	mar	apr	maj
2020												2021												2022						

RAD Studio 10.4 Sydney

- Izboljšan Code Insight – Delphi LSP
- Inicializacija, finalizacija, kopiranje recordov
- Poenoteno upravljanje pomnilnika na vseh platformah (ARC)
- High-DPI slogi, “per control” slogi
- VCL: Edge browser, TTitleBarPanel, TVirtualImage
- Izboljšana knjižnica PPL
- Windows 2019; *Metal API* na OS X in iOS

10.3.3				10.4 Sydney				10.4.1				10.4.2				11 Alexandria				11.1										
nov	dec	jan	feb	mar	apr	maj	jun	jul	avg	sep	okt	nov	dec	jan	feb	mar	apr	maj	jun	jul	avg	sep	okt	nov	dec	jan	feb	mar	apr	maj
2020										2021										2022										

RAD Studio 10.4.1

- Množica izboljšav in popravkov
- Izboljšan Delphi LSP
- Izboljšave za več hkratnih zaslonov in 4k scaling
- Ugasnjen Broadcast to devices
- Izboljšave za PPL

10.3.3				10.4 Sydney				10.4.1				10.4.2				11 Alexandria				11.1										
nov	dec	jan	feb	mar	apr	maj	jun	jul	avg	sep	okt	nov	dec	jan	feb	mar	apr	maj	jun	jul	avg	sep	okt	nov	dec	jan	feb	mar	apr	maj
2020														2021										2022						

RAD Studio 10.4.2

- Novo v VCL: TControlList and TNumberBox
- Podpora za format MSIX za Windows Store
- Podpora za avtomatizirane („tihe“) namestitve
- Pohitren IDE
- Android 11, macOS11, iOS 14

10.3.3				10.4 Sydney				10.4.1				10.4.2				11 Alexandria				11.1										
nov	dec	jan	feb	mar	apr	maj	jun	jul	avg	sep	okt	nov	dec	jan	feb	mar	apr	maj	jun	jul	avg	sep	okt	nov	dec	jan	feb	mar	apr	maj
2020													2021											2022						

RAD Studio 11 Alexandria

- IDE podpira za High-DPI
- VCL začetna stran
- Podpora za VCL sloge v IDE
- Podpora za vodilne črte v FireMonkey designerju
- Razširitve jezika: % in _ v številih
- AVX-512
- Zunanji Delphi LSP; VS Code extension
- Nov C++ formatter
- macOS ARM 64-bit, Android API 30

10.3.3				10.4 Sydney				10.4.1				10.4.2				11 Alexandria				11.1										
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2020													2021											2022						

RAD Studio 11.1

- Množica popravkov in izboljšav
- Popravki za High-DPI v IDE, VCL in FireMonkey
- Popravki za IDE v Remote Desktop
- Izboljšave v Code Insight za Delphi in C++Builder
- Pohitren Delphi LSP
- Izboljšave v Delphi in C++ prevajalnikih,
- Izboljšave v RTL, UI in podatkovnih knjižnicah

Podprte platforme

Podprte platforme

RAD Studio	Windows	Mac	iOS	Android	Linux
10.3	7 – 10, 2012, 2016	10.11 – 10.15	10.3 – 13	5.1 – 10	Ubuntu 14.04, 16.04, 18.04, RedHat 7
10.4	7 – 10, 2016, 2019	10.12 – 10.15	11 – 13	6 – 10	Ubuntu 16.04, 18.04, RedHat 7
10.4.1					
10.4.2		10.12 – 11	11 - 14	6 – 11	
11		10.15 – 11 ARM-64, Universal	14, 15	8.1 – 11	Ubuntu 18.04, 20.04, RedHat 8, WSL2
11.1	7 – 11, 2016, 2019	10.15 – 12		8.1 – 12	

IDE

10.4 Sydney

- 10.4: Popravki namestljivi skozi GetIt
- 10.4: uporablja TCustomTitleBar
- 10.4: DelphiLSP / Code Insight
- 10.4: izboljšana statusna vrstica
- 10.4.1: DelphiLSP / Code Completion
- 10.4.1: boljša podpora za več zaslonov
- 10.4.1: ugasnjen *Broadcast to devices*
- 10.4.2: hitrejša delovanje (IDE Fix Pack)
- 10.4.2: začetna podpora za cquery LSP server

11 Alexandria

- 11: High-DPI
- 11: VCL Welcome page
- 11: VCL Styles
- 11: FireMonkey guidelines & margins
- 11.1: Hitrejši DelphiLSP
- 11.1: Izboljšana podpora High-DPI
- 11.1: Izboljšana podpora za cquery LSP server

Delphi

Custom Managed Records

- 10.4:

type

TMyRecord = **record**

Value: Integer;

class operator Initialize (**out** Dest: TMyRecord);

class operator Finalize (**var** Dest: TMyRecord);

class operator Assign (**var** Dest: TMyRecord;

const [ref] Src: TMyRecord);

end;

Zapis števil

- 11: Berljivost: **1_000_000**
- 11: Binarna števila: **%101010**

ARC

- 10.4: Konec ARC (Automatic Reference Counting) ...
- ... razen za **string** in **interface**

ARM

- 11: macOS ARM64
 - M1/macOS 11
- 11: Univerzalni binary: Intel + ARM
- 11.1: Debugger

Linker

- 11.1: Dodatne nastavitve v IDE: ASLR, DEP/NX, TSAWARE
- V prejšnjih različicah:
 - `{$DYNAMICBASE}` (ASLR)
 - `{$SetPEOptFlags $40}` (DEP/NX)

C++ Builder

C++ Builder

- 10.4: Nove podprte knjižnice: ZeroMQ, SDL2, SOCI, libSIMDpp, Nematode
- 10.4: Win64 LLDB debugger
- 10.4.1: Manjša poraba pomnilnika v Win64 linkerju
- 10.4.1: Popravki za exception handling
- 11: Nov formatter
- 11: C++ - združljiv RTTI za Delphi tipe
- 11.1: ASLR, DEP/NX, TSAWARE
 - -GE linker switch (HIGHENTROPYVA, NXCOMPAT, TSAWARE)

VCL

Slogi

- 10.4: Podpora za High-DPI in 4k zaslone
- 10.4: Novi High-DPI slogi
- 10.4: Uporaba slogov na nivoju kontrol

Komponente

- 10.4: Edge Browser
- 10.4: TTitleBarPanel, TForm.CustomTitleBar
- 10.4: TVirtuallImage
- 10.4.2: TControlList, TNumberBox
- 11: RichEdit 4.1

Razno

- 11: class property
TControl.RaiseOnNonMainThreadUsage
- 11: Nov privzeti font: *Segoe UI 9*
- 11: .EditMargins v TMemo, TDBMemo, TRichEdit ...
- 11: TCustomGroupBox - ShowFrame, HeaderFont, DefaultHeaderFont
- 11: TCustomComboBox - DropDownWidth, AutoDropDownWidth
- 11: TTreeView s checkboxi
- 11: TLabelDBEdit

FireMonkey

FireMonkey

- 10.4: Podpora za *Metal API*
 - macOS (Delphi)
 - iOS (Delphi, C++Builder)
- 10.4: FMXLinux (Enterprise, Architect)
- 11: refactor za *platform services*

RTL

Parallel Programming Library

- 10.4, 10.4.1: Številne izboljšave
- 10.4.1: TLightweightMREW
 - Nadomestek za TMultiReadExclusiveWriteSynchronizer
- 11: javni TThreadPoolStats.Get

Razno

- 10.4: Hitrejši LiveBindings
- 11: Podpora za HTTP/2 (Windows)
- 11: TLS 1.3 v TNetHTTPClient (Windows)
- 11: TZipFile podpira Zip64
- 11: TMemoryStream podpira > 2 GB strukture (64-bit)
- 11: TDateTime.NowUTC (helper)
- 11: TPointerStream
- 11.1: TAsyncStream, TURLStream (System.Net.URLClient)

Data

Data

- 11: PostgreSQL v13, PostgreSQL Stored Procedures
- 11: Oracle 19c, 128-znakovna imena parametrov
- 11: Dodan soDigitsAsNumbers v TFDSortOption
- 11.1: MariaDB 10.6
- 11.1: SQLite SEE
- 11.1: Izboljšan Firebird 4 driver

Viri

Viri

- **Novo v RAD Studio 10.4 Sydney**
https://docwiki.embarcadero.com/RADStudio/Sydney/en/What's_New
- **Novo v RAD Studio 10.4.1**
https://docwiki.embarcadero.com/RADStudio/Sydney/en/10.4_Sydney_-_Release_1
- **Novo v RAD Studio 10.4.2**
<https://www.embarcadero.com/products/rad-studio/whats-new-in-10-4-sydney>
- **Novo v RAD Studio 11 Alexandria**
https://docwiki.embarcadero.com/RADStudio/Alexandria/en/What's_New
- **RAD Studio 11.1**
https://docwiki.embarcadero.com/RADStudio/Alexandria/en/11_Alexandria_-_Release_1

Viri

- **Podprte platforme**
https://docwiki.embarcadero.com/PlatformStatus/en/Main_Page
- **RAD Studio demo program (Delphi, C++ Builder)**
<https://github.com/Embarcadero/RADStudio11Demos>
- **Custom Managed Records**
https://docwiki.embarcadero.com/RADStudio/Sydney/en/Custom_Managed_Records
- **TSAWARE**
<https://docs.microsoft.com/en-us/cpp/build/reference/tsaware-create-terminal-server-aware-application?view=msvc-170>

Viri

- **Checkboxi v TTreeView**

<https://blogs.embarcadero.com/vcl-new-features-in-rad-studio-11/>

- **TLightweightMREW**

<https://docwiki.embarcadero.com/Libraries/Sydney/en/System.SyncObjs.TLightweightMREW>

- **Sort Digits as Numbers**

<https://docs.microsoft.com/en-us/windows/win32/intl/handling-sorting-in-your-applications#sort-digits-as-numbers>

Viri

- **TControlList**

https://docwiki.embarcadero.com/RADStudio/Sydney/en/Using_VCL_TControlList_Control

- **Ubuntu setup**

<https://gist.github.com/jimmckeeth/1cb657694d1ea18335782213097c8a33>

- **RedHat setup**

<https://gist.github.com/jimmckeeth/a5e01f312d0ad664e030ed785daf9159>

- **WSL2 in X-Server**

<https://medium.com/javarevisited/using-wsl-2-with-x-server-linux-on-windows-a372263533c3>

Viri

- **TLightweightMREW**

- <https://www.thedelphigeek.com/2020/11/readers-writer-lock-part-1-why.html>

- <https://www.thedelphigeek.com/2020/12/readers-writer-lock-part-2-implement.html>

- <https://www.thedelphigeek.com/2021/02/readers-writer-lock-part-3-some-numbers.html>

- <https://www.thedelphigeek.com/2021/02/readers-writer-lock-part-4-47358-48721-45511-46172.html>