

embarcadero®
TECH VISION 20
Implementing amazing apps

Idera Technology Showcase

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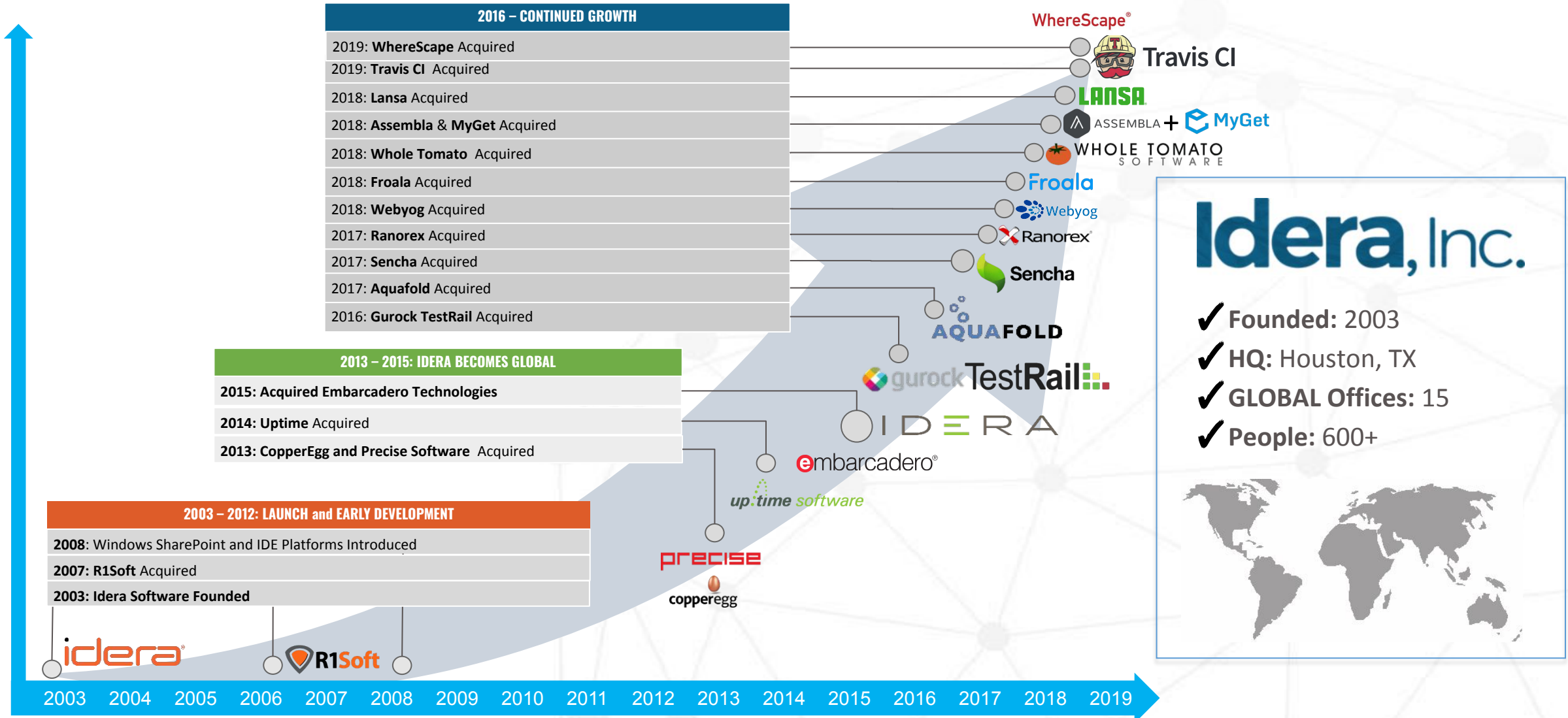
A faint, light blue network diagram is visible in the background, consisting of numerous circular nodes connected by thin lines, forming a complex web-like structure.

Idera Developer Tools Overview

Agenda

- Idera Developer Tools Overview
 - What tools does Idera offer? Why are they useful?
- Examine key products useful to you
 - RAD Studio (Delphi and C++Builder) - today and future
 - Sencha
 - Ranorex
 - Travis CI
 - Assembla
 - Interbase
 - Visual Assist
- Integration is key!

Idera Inc, Large and Growing Fast!



Idera, Inc.

Database Tools

IDERA

AQUAFOLD

Webbyog

WhereScape®

Acquired since October
2018

Developer Tools

embarcadero®

Sencha
Froala

WHOLE TOMATO
SOFTWARE

LANSA

DevOps Tools

TestRail

Ranorex®

kiuwan

ASSEMBLA

Travis CI

A faint, light blue network diagram is visible in the background, consisting of numerous small circular nodes connected by thin lines, forming a complex web-like structure.

Idera's Focus: Best-In-Class Productivity Software

Idera Inc., Developer Tools

Focus on **Developers!**

- Committed to develop and acquire **best-in-class developer tools**
- Open technology approach that puts **developers' choices first** (i.e. no technology or toolchain agenda)



Continue to Improve Embarcadero Offerings

- Established **continuous product release cycles** for 10.x versions with **update subscription** that improves ROI
- Introduced successful programs to **attract new developers**
 - 200K Downloads of **Community Edition**
 - **Academics Program** and **LearnDelphi.org**
- Continue to **modernize infrastructure and support**

Help YOU Modernize and Build New Apps

- **Modernization / Upgrades of Apps is Accelerating**
 - **Updating UX with Desktop focus** – popularized by new virtualization options
 - **Changing Architecture for Web Clients** – supported by RAD Server and ExtJS
- **New Apps**
 - Introduction to RAD Studio through **2D gaming or mobile apps**
 - Best option for **High Performance Windows apps** development
 - Big Opportunity in **industrial automation**

Leverage Idera synergies? Examples...

Idera, Inc.

Database Tools

 **AQUAFOLD**

Leverage award winning Aqua Data Studio to provide better support for **Interbase**

Developer Tools

 **embarcadero**[®]

 **Sencha**

 **WHOLE TOMATO**
SOFTWARE

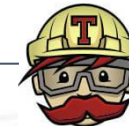
Integrate Visual Assist into RAD Studio to improve **C++ Builder**

Testing Tools

Improve **RAD Server** JavaScript support

 **Ranorex**[®]

Add better support for **Delphi** Test Automation



Travis CI

Hosted **Delphi** Build and CI Services

Let's look at *six key products...*

1. RAD Studio (Delphi and C++Builder) – today and future
2. Sencha
3. Ranorex
4. Travis CI
5. Assembla
6. Interbase

...and a bonus seventh:

7. Visual Assist

1. RAD Studio (Delphi & C++Builder)

Today and Future

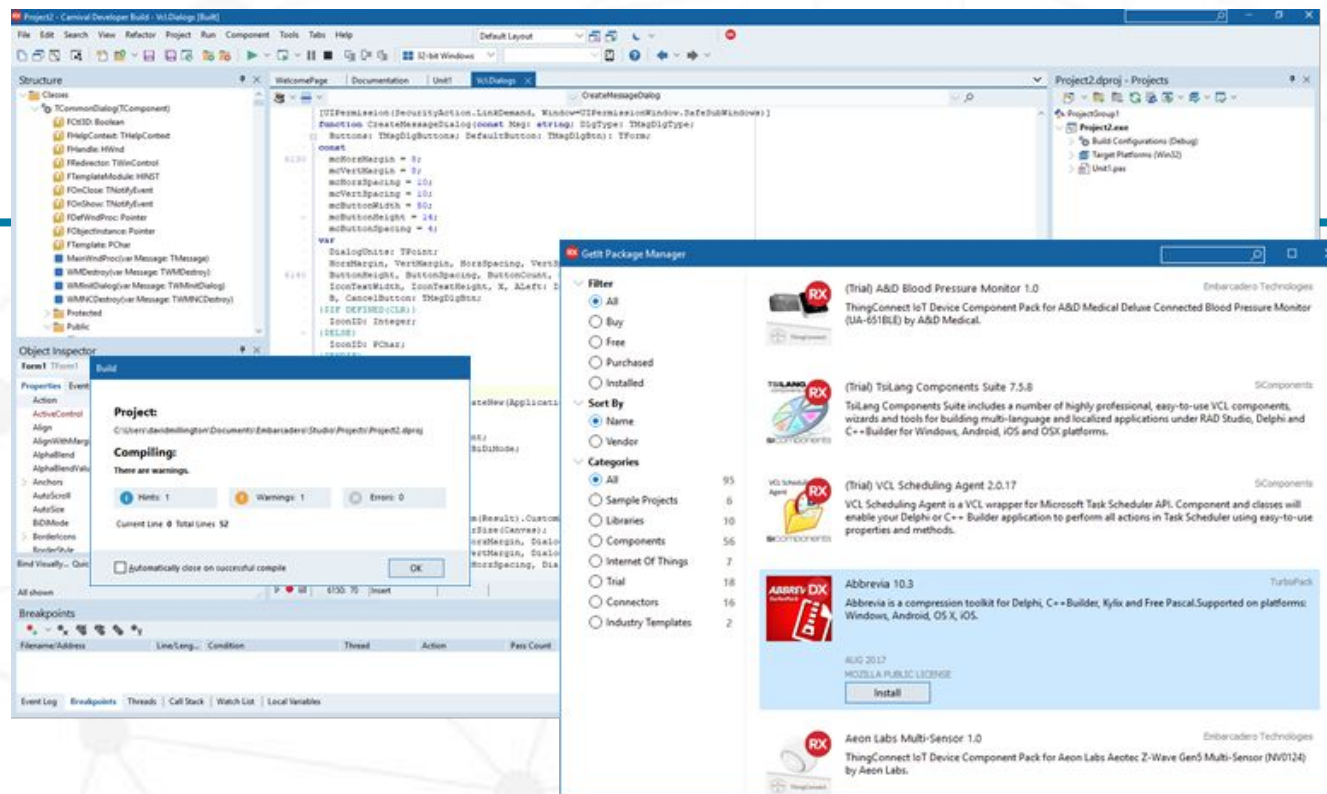


RAD Studio

“

Embarcadero represents some of the most iconic and innovative products in the software development industry today.

-- USA CTO

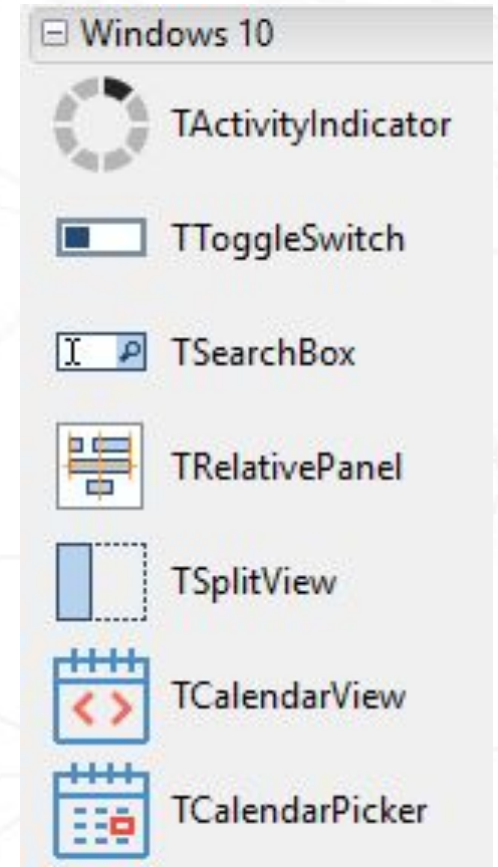


RAD Studio Strategy

- Offer the **best** options for Windows client development
 - Remain the key solution in this space
 - Continue improving VCL, offer new key features
- Leverage mobile and multi-device
 - Next step for many developers
 - Support Delphi on all key target platform
- Focus on code compatibility and migration

VCL: the Best UI library for Windows 10

- Includes direct access to Win32 APIs, COM Shell Controls, WinRT new APIs
- VCL controls corresponding common Windows 10 UI elements (but not limited to Windows 10)
- Style your existing VCL apps
- Publish VCL apps on Windows Store
- No dependency on any runtime or execution environment (like .NET or Java)



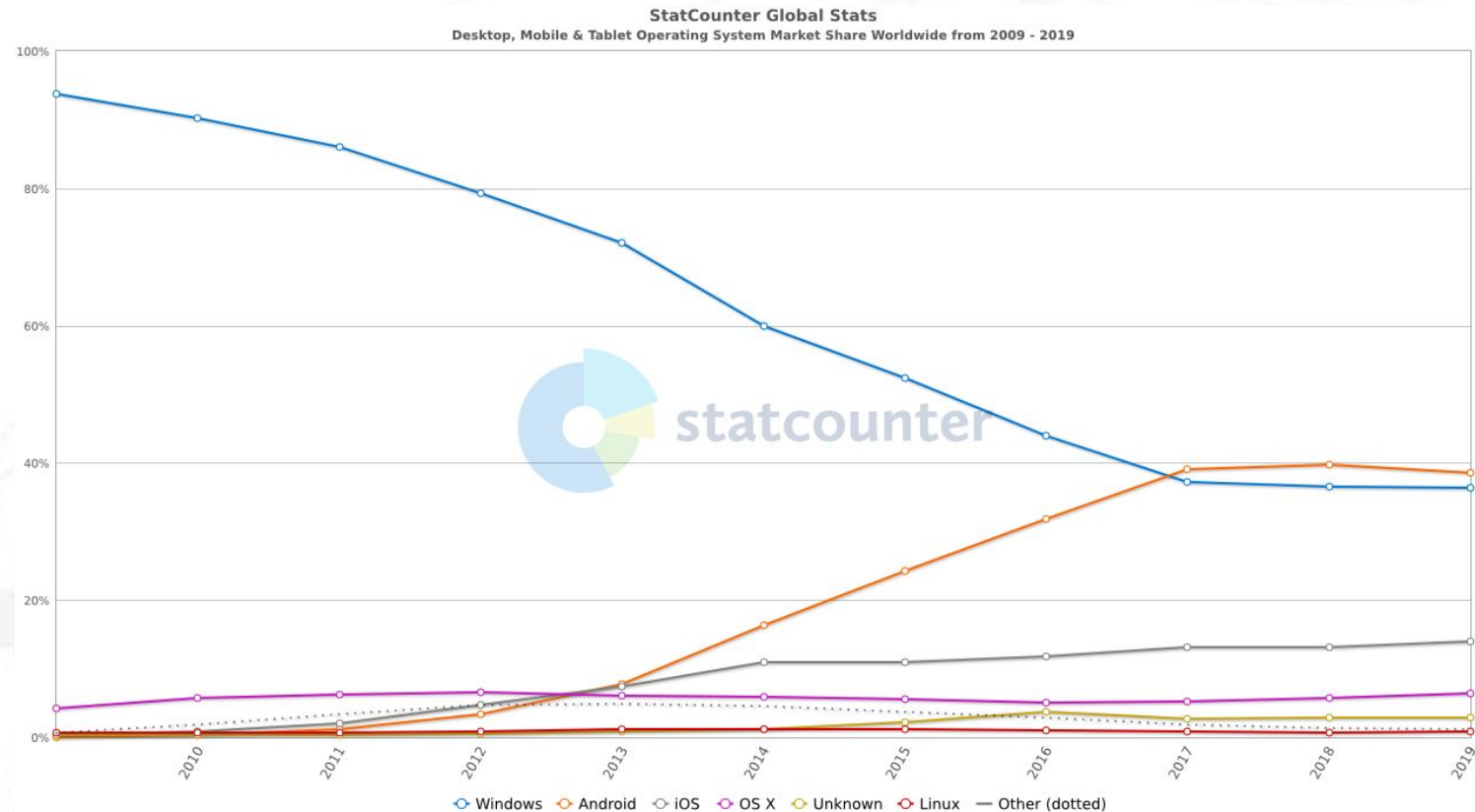
Multi Device is the Future

“Stable Scenario”

Windows & Android at
40%

iOS and macOS relevant

Linux big on server side
(plus kiosks, etc)

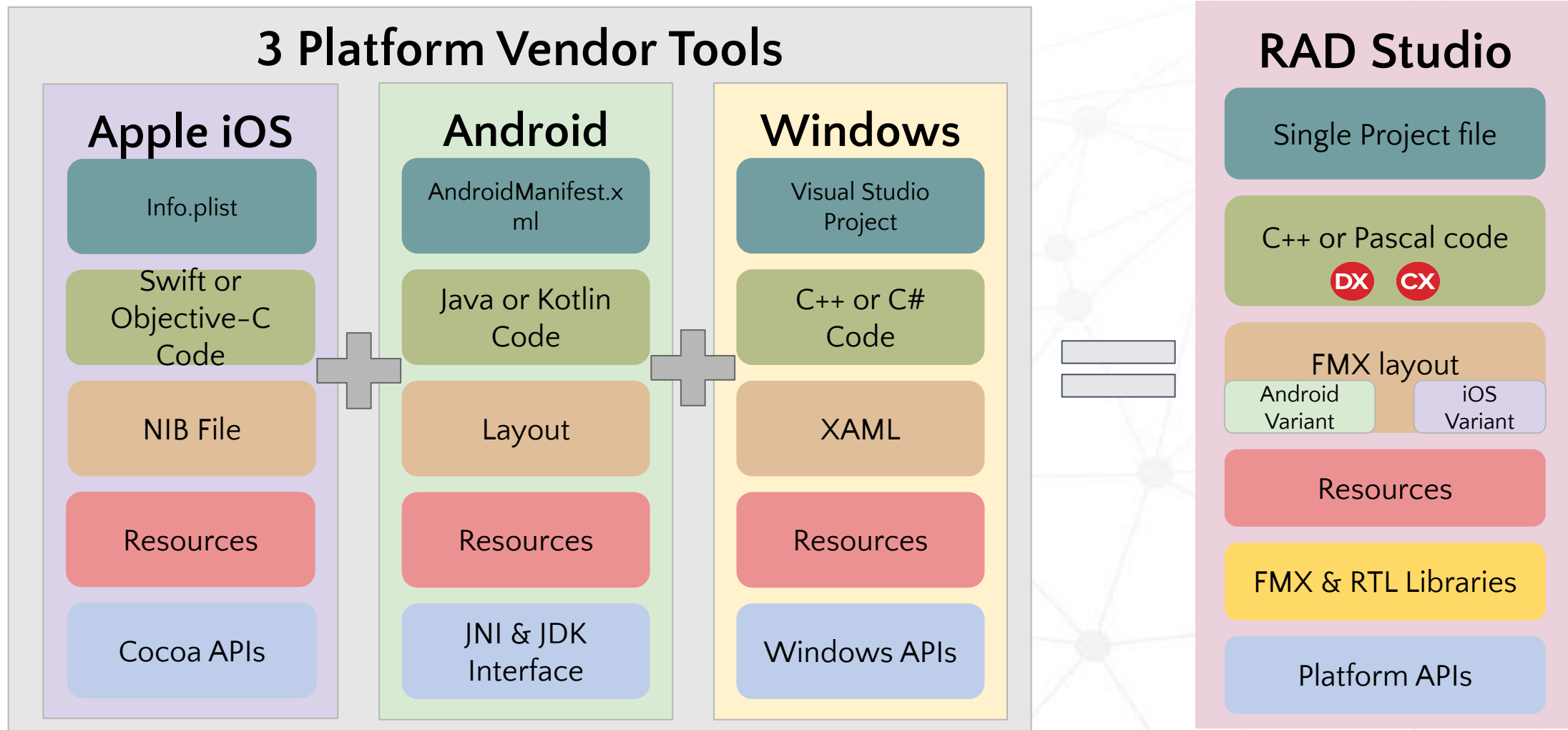


Data by Stat Counter as of Sept 2019 -

<http://gs.statcounter.com/os-market-share/desktop-mobile-tablet/worldwide/>

- CC-BY-SA 3.0 Unported license

RAD Studio Simplifies Development



Modern RAD Development

More on modern Delphi in a **later talk on Modernization:**

- Discuss Modern Delphi and C++Builder
- Useful, modern features that will benefit your applications
 - ...with live demos
- <https://www.embarcadero.com/case-study/>

2. Sencha

ExtJS – Powerful, Fast Web Frontends

ExtJS

- The Best JavaScript Framework In The World
- Professionally supported and maintained with world-class components that integrate together
- More than 10,000 enterprise customers rely on Sencha – including 60% of the Fortune 100.
- RAD-style, fast, powerful, web controls and database – if you like Delphi, you'll find ExtJS familiar!

ExtJS

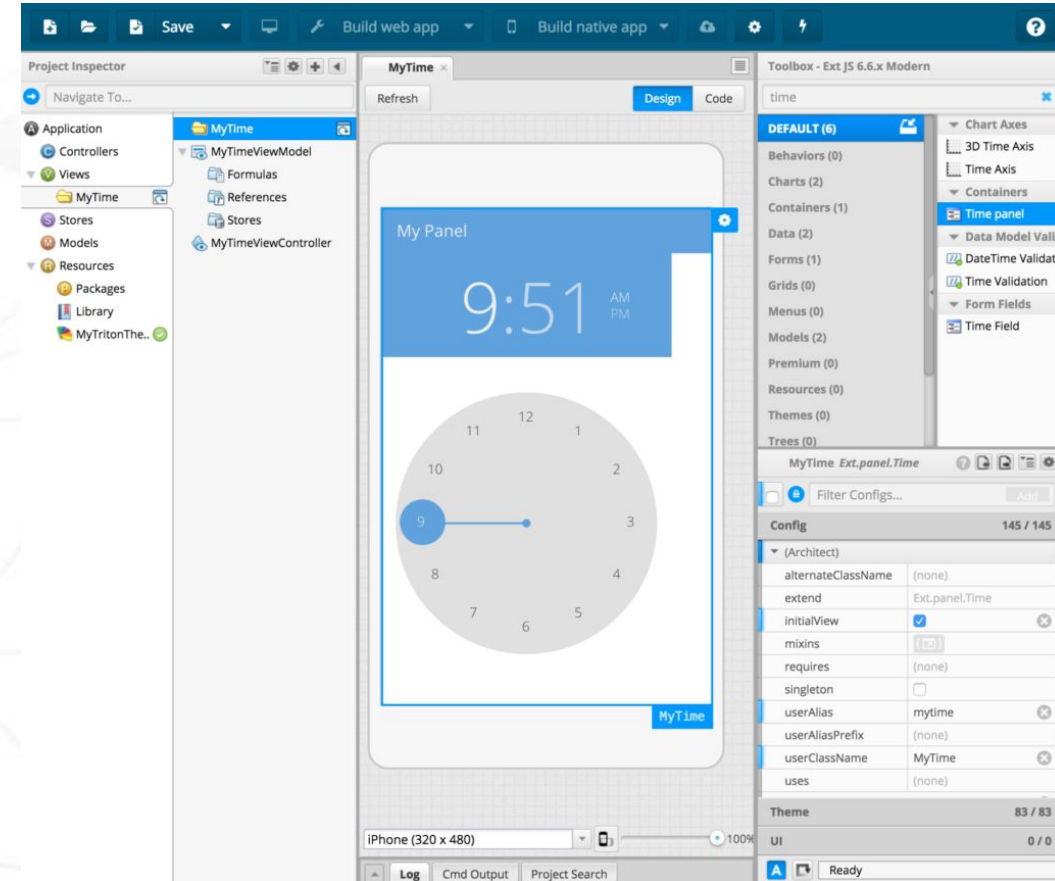
- HTML5 calendar
- Grids
- Pivot grid
- D3 adapter
- Trees
- Lists
- Forms, menus, toolbars, panels, windows, and much more.
- Hundreds of user extensions are also available from the Ext JS community!

The screenshot displays the Ext JS Kitchen Sink application, specifically the 'Big Data Grid' component. The grid is a table with columns: Id, Name, Verified (checkbox), Ratings (Avg, All), Date of Birth, and Join D. It shows a list of employees with their details and a 'VERIFY' button for each row. The grid is titled 'Big Data Grid' and has an 'EXPORT TO ...' button. The configuration code for the grid is shown on the right side of the image.

```
Ext.define('KitchenSink.view.grid.advanced', {
    extend: 'Ext.grid.Grid',
    xtype: 'big-data-grid',
    controller: 'grid-bigdata',
    title: 'Big Data Grid',
    requires: [
        'Ext.data.summary.Average',
        'Ext.grid.plugin.Edittable',
        'Ext.grid.plugin.ViewOptions',
        'Ext.grid.plugin.PagingToolbar',
        'Ext.grid.plugin.SummaryRow',
        'Ext.grid.plugin.ColumnResizing',
        'Ext.grid.plugin.MultiSelection',
        'Ext.grid.plugin.RowExpander',
        'Ext.grid.plugin.Exporter',
        'Ext.sparkline.Line',
        'Ext.util.RatingPicker'
    ],
    grouped: true,
    rowLines: true,
    plugins: {
        grideditable: true,
        gridviewoptions: true,
        summaryrow: true,
        rowexpander: true,
        gridexporter: true,
        rowoperations: true
    },
    listeners: {
        documentsave: 'onDocumentsave',
        beforedocumentsave: 'onBeforeDocumentsave',
        columnscreated: 'onColumnsCreated'
    },
    store: {
        model: 'Employee',
        autoload: true,
        groupField: 'department',
        pageSize: 5,
        proxy: {
            type: 'ajax',
            url: '/KitchenSink/BigData'
        }
    }
});
```

ExtJS - RAD-style Development

- ExtJS Architect: Visual Design
- Just like Delphi!
- Drag and drop components
- Edit properties
- ExtJS is backend-agnostic
...and Delphi's REST & RAD Server support it perfectly!



ExtJS - Sophisticated Data

- Pivot Grid: powerful analytics capabilities.
 - Users can summarize, aggregate and analyze multidimensional data & make informed decisions.

Progress	Run Mode	Slider	Line	Bar	Discrete	Bullet	Pie	Box	TriState
61% done	Remote ▼								
97% done	Local ▼								
60% done	Remote ▼								
49% done	Local ▼								
5% done	Remote ▼								
100% done	Local ▼								
31% done	Remote ▼								

ExtJS - Sophisticated Data

- Data-Driven Documents (D3) visualizations:
- Heatmaps, treemaps, sunbursts, and more
- Dynamic visualizations help your users explore their data and understand it





“

*Ext JS was the most innovative
Web Development product in the
last 10 years.*

-- Large US Bank

Big Data Grid											EXPORT TO ...	SELECT
		Id	Name	Verified <input type="checkbox"/>	Ratings		Date of Birth		Join Date	Notice Peri...	Email	
					Avg	All						
Accounting (57)												
▼	1	137555	Nige Mishcon	<input type="checkbox"/>	4.60		20-01-1968	VERIFY	21-04-2012	1 month	nige.mishcon@sentcha.com	
▼	2	014607	Nige White	<input checked="" type="checkbox"/>	3.90		26-02-1958	VERIFY	28-08-2008	1 month	nige.white@sentcha.com	
▼	3	361321	Jamie Davis	<input type="checkbox"/>	4.10		04-01-1962	VERIFY	06-07-2008	3 months	jamie.davis@sentcha.com	
▼	4	432467	Jay Kaneda	<input type="checkbox"/>	6.20		16-10-1975	VERIFY	22-08-2011	3 months	jay.kaneda@sentcha.com	
▼	5	144031	Nicolas Davis	<input checked="" type="checkbox"/>	3.80		21-08-1986	VERIFY	12-12-2009	3 months	nicolas.davis@sentcha.com	
▼	6	171415	Nige Spencer	<input type="checkbox"/>	5.20		12-05-1970	VERIFY	01-12-2009	3 months	nige.spencer@sentcha.com	
▼	7	437323	Nicolas Kaneda	<input type="checkbox"/>	6.00		07-08-1968	VERIFY	02-04-2009	2 weeks	nicolas.kaneda@sentcha.com	
▼	8	157675	Tommy Mishcon	<input type="checkbox"/>	6.40		08-06-1972	VERIFY	25-04-2012	3 months	tommy.mishcon@sentcha.com	
▼	9	520444	Jamie Avins	<input type="checkbox"/>	4.70		07-06-1970	VERIFY	22-01-2013	3 months	jamie.avins@sentcha.com	
▼	10	577303	Tommy Davis	<input type="checkbox"/>	4.40		30-01-1976	VERIFY	23-10-2012	3 months	tommy.davis@sentcha.com	
▼	11	447714	David Robinson	<input checked="" type="checkbox"/>	4.00		18-08-1977	VERIFY	27-10-2007	2 months	david.robinson@sentcha.com	

Delphi's REST support & RAD Server have **inbuilt special support**
for building ExtJS backends.

<https://embt.co/CP-ExtJSDelphi>

3. Ranorex

Automate testing for any desktop, web or mobile technology

Ranorex: UI Testing for Delphi & C++Builder

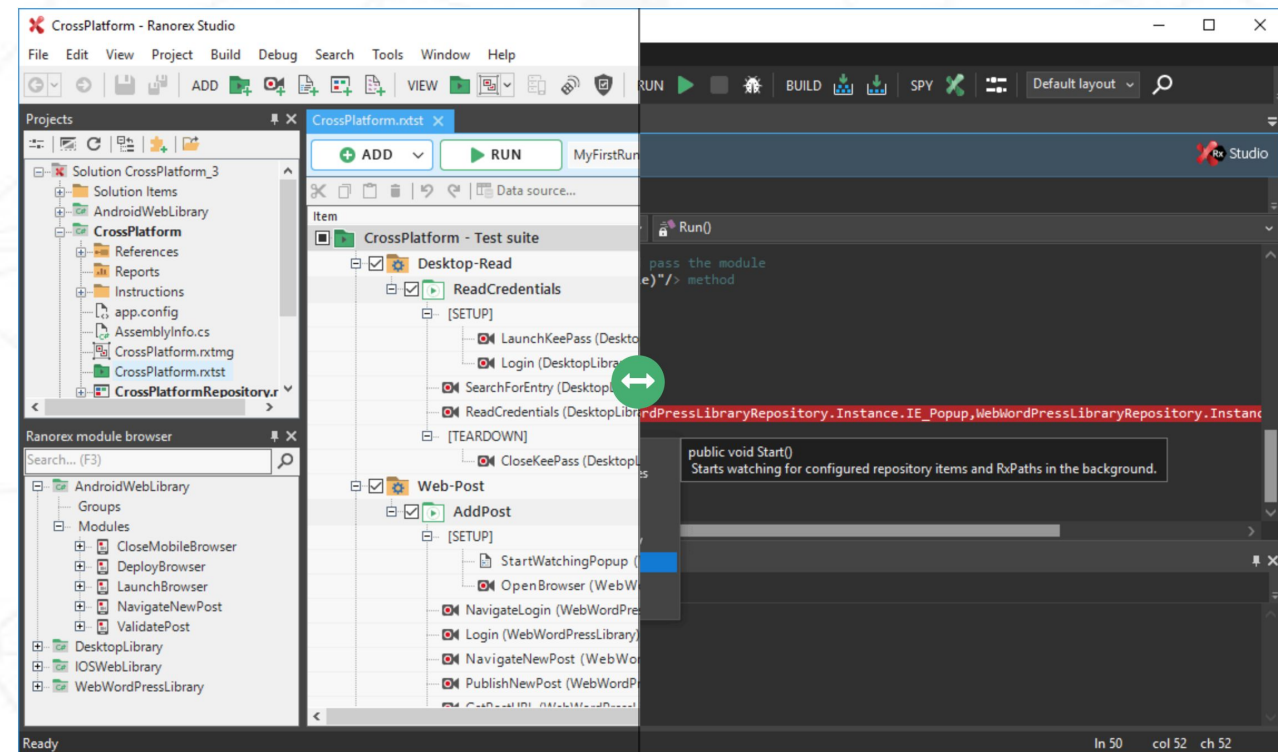
You have unit & integration tests

How do you test your user interface?

-- With Ranorex!

All-in-one Test Automation

Easy, but powerful – UI, or code



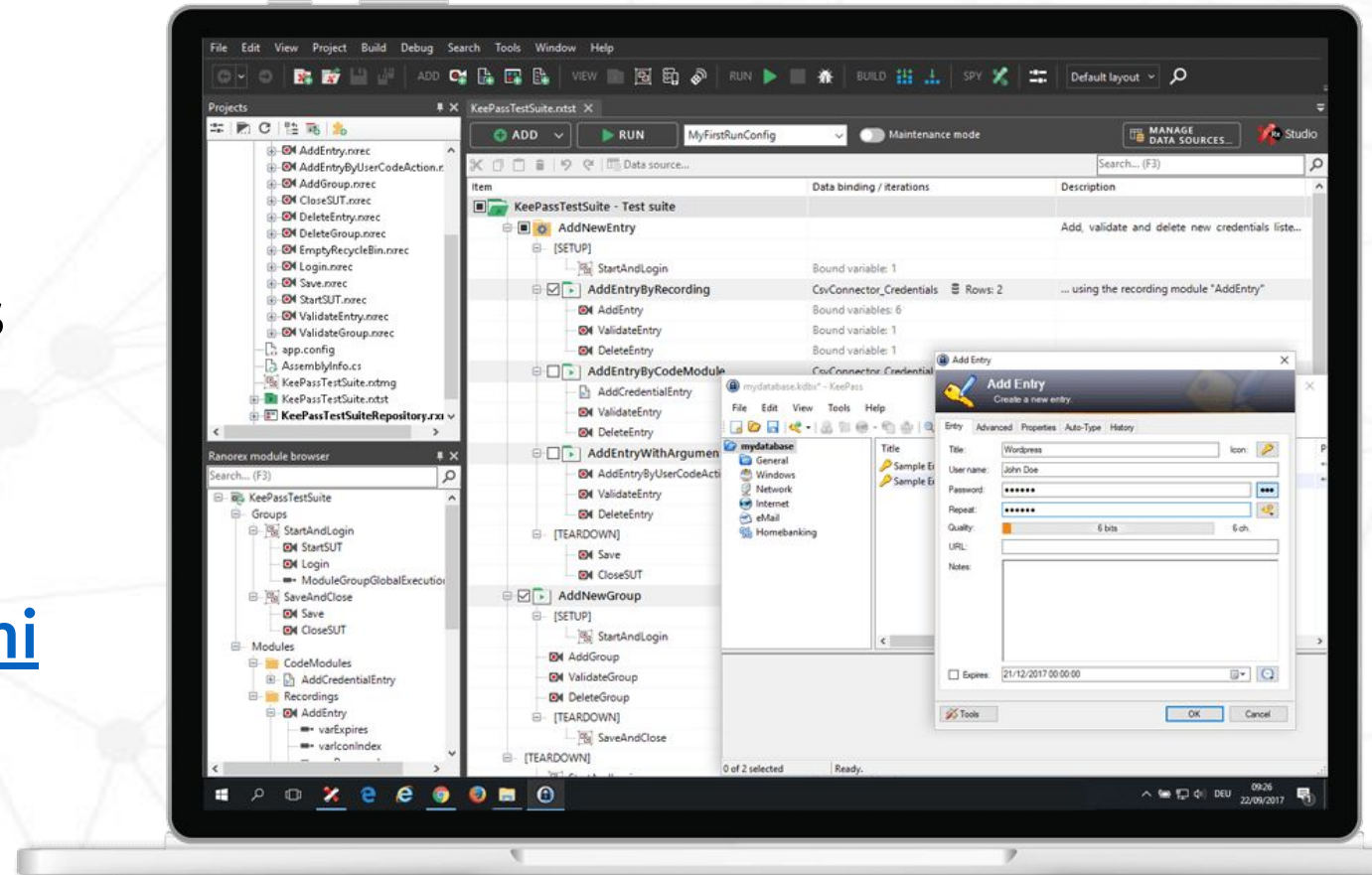
Ranorex: UI Testing for Delphi & C++Builder

Robust test automation

Simulate & record user actions

Delphi Application Support

<https://embt.co/RanorexDelphi>



4. Travis CI

Continuous Integration – test and deploy

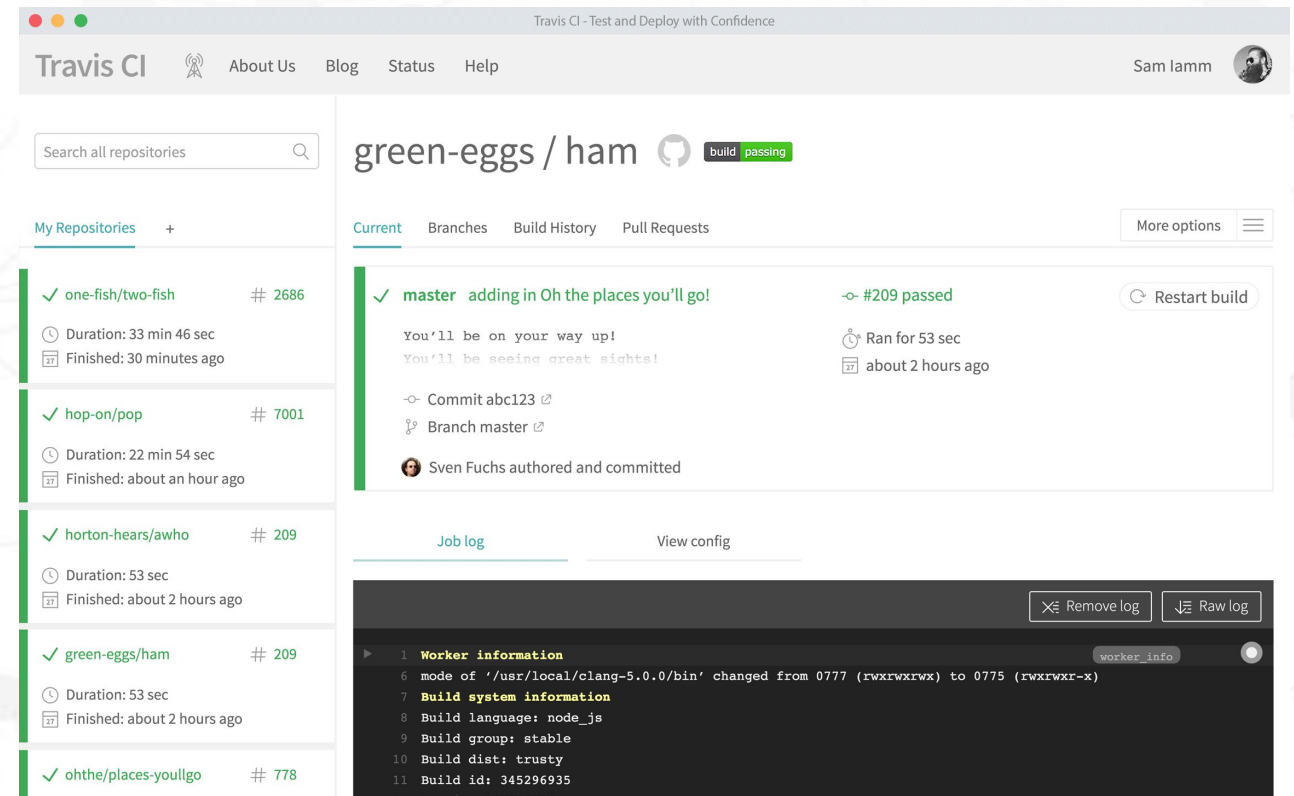
What is Travis CI?

Run unit tests with every code change

Integrated with GitHub

Push a change – your tests run

Always understand your app's status and test success



The screenshot displays the Travis CI web interface. At the top, the header includes the Travis CI logo, navigation links (About Us, Blog, Status, Help), and a user profile for 'Sam Iamm'. Below the header, there's a search bar for repositories. The main content area is divided into two sections. On the left, 'My Repositories' lists several repositories with their build status (all green), build numbers, duration, and completion time. The repository 'green-eggs/ham' is highlighted. On the right, the 'Current' build for 'green-eggs / ham' is shown, indicating a 'build passing' status. It includes details about the commit (abc123), the branch (master), and the build duration (53 seconds). Below this, there's a 'Job log' section showing the output of the build process, including worker information and build system details.

Travis CI - Test and Deploy with Confidence

Travis CI About Us Blog Status Help Sam Iamm

Search all repositories

My Repositories +

- ✓ one-fish/two-fish # 2686
Duration: 33 min 46 sec
Finished: 30 minutes ago
- ✓ hop-on/pop # 7001
Duration: 22 min 54 sec
Finished: about an hour ago
- ✓ horton-hears/awho # 209
Duration: 53 sec
Finished: about 2 hours ago
- ✓ green-eggs/ham # 209
Duration: 53 sec
Finished: about 2 hours ago
- ✓ ohthe/places-youllgo # 778

green-eggs / ham build passing

Current Branches Build History Pull Requests More options

✓ master adding in Oh the places you'll go! #209 passed
You'll be on your way up!
You'll be seeing great sights!
Commit abc123
Branch master
Sven Fuchs authored and committed
Ran for 53 sec
about 2 hours ago
Restart build

Job log View config

Remove log Raw log

```
1 Worker information
2 mode of '/usr/local/clang-5.0.0/bin' changed from 7777 (rwxrwxrwx) to 7775 (rwxrwxr-x)
3 Build system information
4 Build language: node_js
5 Build group: stable
6 Build dist: trusty
7 Build id: 345296935
```

5. Assembla

Source hosting and review

Assembla is...

Source Code Hosting (SVN, git) Code Review

From: (repository, revision) To: (repository, revision)



website-2-0 ticket_291 website-2-0 master

Layout improvements and .config update

Create Merge Request

Commits (8) Files (32)

Friday, March 16

	f89194de65	★ updates	2018-03-16 12:00	Browse	👍 0 🗨️ 0
	2cf9a4c4dc	★ img fix	2018-03-16 10:57	Browse	👍 0 🗨️ 0

Newest Definition QA In-progress Test

Template - Reporting New Bug

Subtask - (a) Analysis

Subtask

I need help with something

Epic: Starting a Project

Story: Planning

I don't want to be deleted

Subtask (n) Implement in three markets

Subtask - (c) QA

Business continuity planning

this is another Matt test

User Story - (a) As a <type of user>, I want <goal> so that I <receive benefit>.

User Story - (c) Students can purchase monthly parking passes online.

Support Ticket submitted by Watcher Nov 17th

New Demo Ticket

build the validation in php

User Story - (b) As a customer, I want to be able to create an account so that I can see the purchases I made in the last year to help me budget for next year.

New brand color selection

User Story - (f) Students can obtain their current seminar schedule

Feasibility study

Lean six sigma - adoption

User Story - (e) Professors can input student marks.

build the UI

Project Management – tickets, planning (Gantt, Kanban, etc)

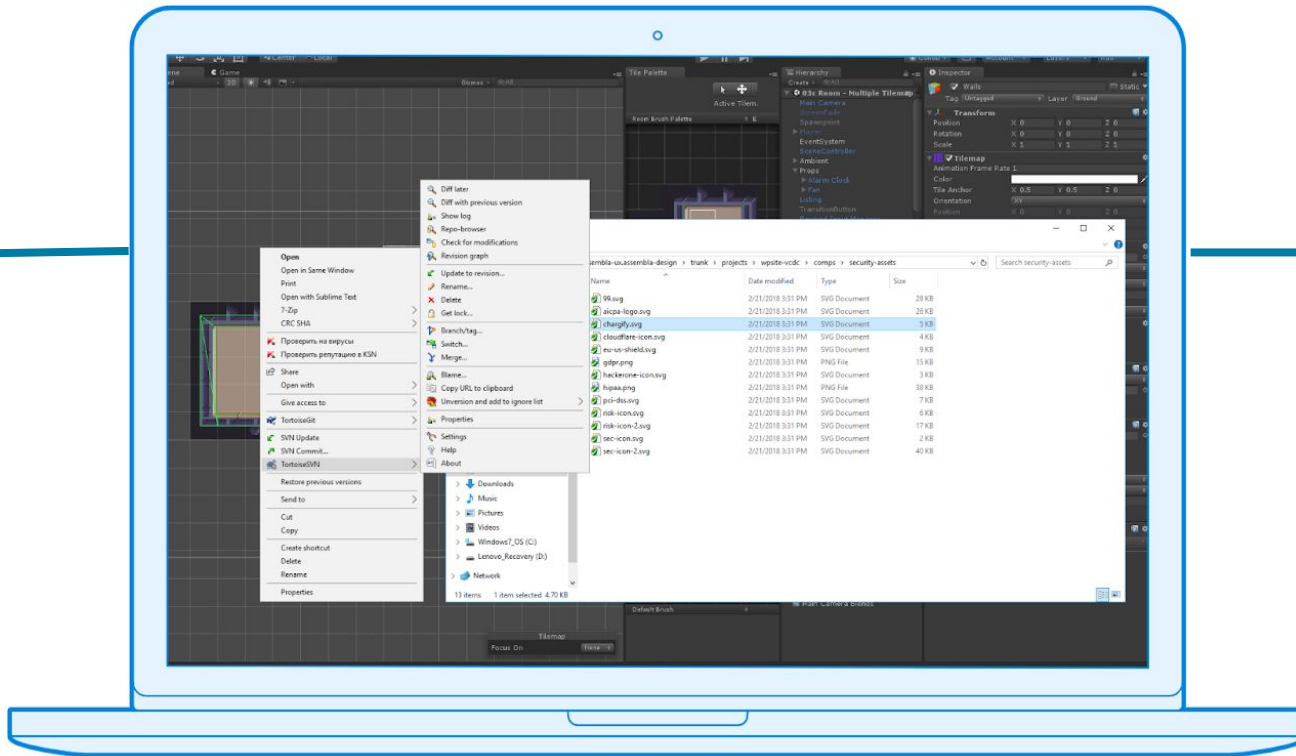


ASSEMBLA

“

"Assembla stands out from the crowd,... DT can easily manage several projects at once and onboard new team members seamlessly."

-- Large Telco Provider



6. InterBase

InterBase 2020



- InterBase
 - Low footprint, embeddable, zero-administration, secure RDBMS
- InterBase 2020 Server
 - Main feature: TableSpace
- IBLite/ToGo
 - New platforms: macOS 64-bit, Android 64-bit

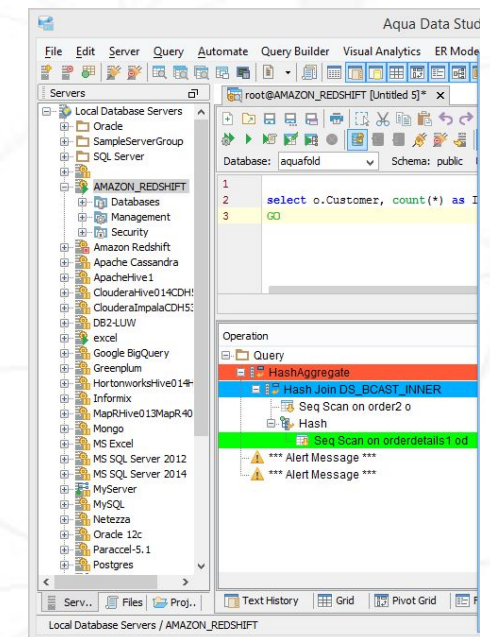
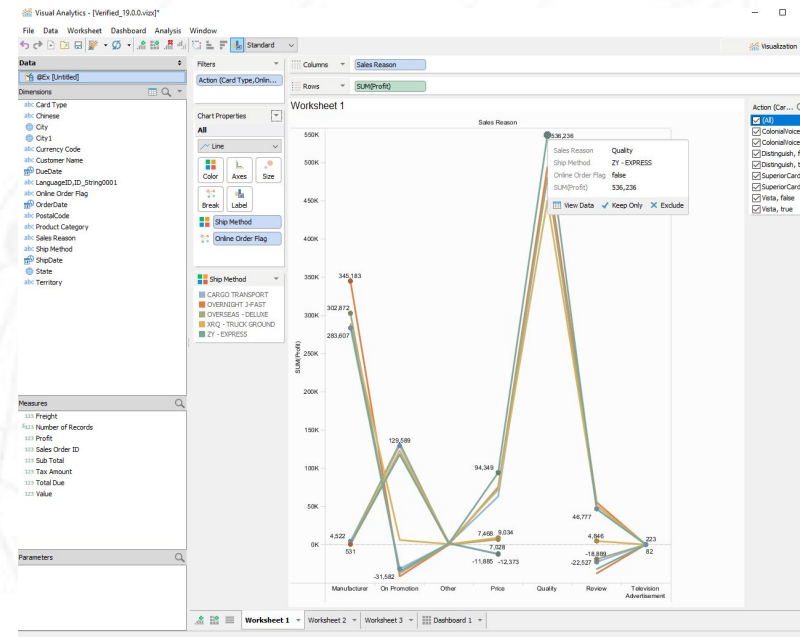
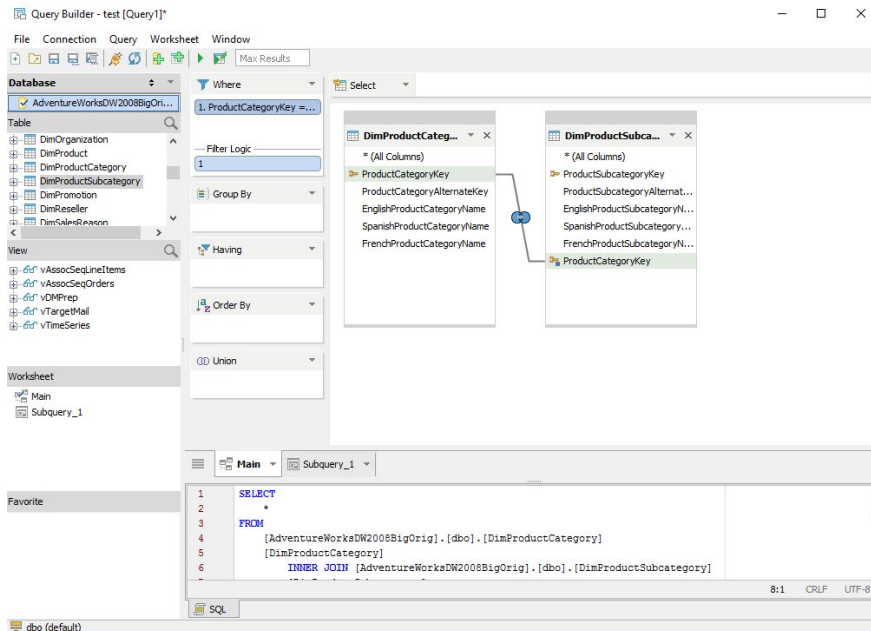
InterBase 2020 Released November 2019!

InterBase and Aqua Data Studio

Visual Query Builder

Data Analysis

Edit SQL



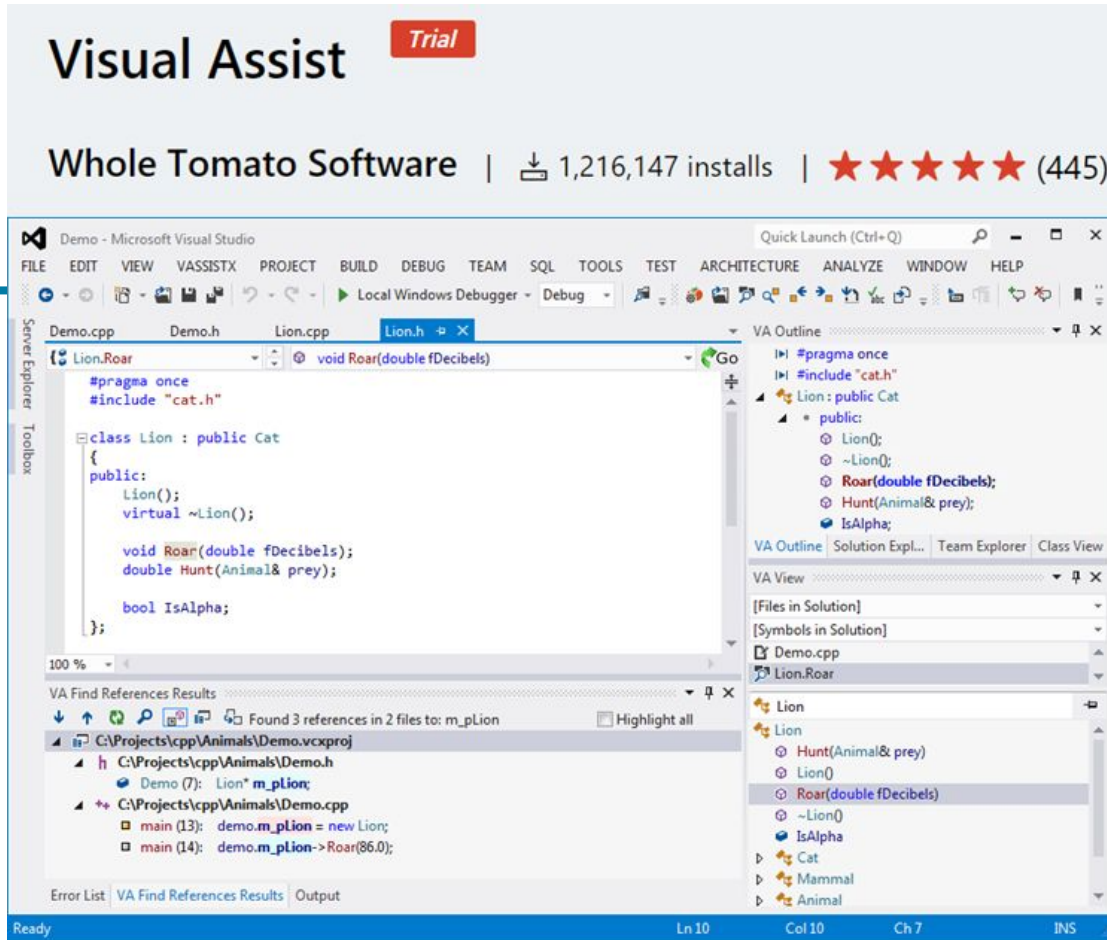
InterBase and RAD Studio

- Developer Edition and Embedded Edition licensed with RAD Studio
 - All editions include free IBLite deployment license
 - RAD Studio Ent/Arch includes IBToGo Mobile deployment license
- RAD Server uses InterBase 2017 behind the scenes

7. Visual Assist

World's Best Code Tooling:
completions, refactoring, static analysis, and more.

Visual Assist for Visual C++/C#



“Visual Assist makes a good product great!”

-- Visual Studio C++ Customer

Add-on for Visual C++ and Visual C#

Roadmap: Integration Planned for
C++Builder and Delphi

* Features are not committed until complete and GA released

Integration

Powerful tools

Integrated

Increase productivity, reliability, security,
and your customers' satisfaction

Integration - Leverage Tools Together

Idera, Inc.

Database Tools

 **AQUAFOLD**

Leverage award winning Aqua Data Studio to provide better support for **Interbase**

Developer Tools

 **embarcadero®**

 **Sencha**

 **WHOLE TOMATO SOFTWARE**

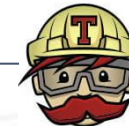
Planned: Integrate Visual Assist into RAD Studio to improve **C++ Builder**

Testing Tools

RAD Server & JavaScript / ExtJS support

 **Ranorex®**

Delphi UI Test Automation



Travis CI

Hosted Build and CI Services