

INSTITUTO FEDERAL DE
EDUCAÇÃO, CIÊNCIA E TECNOLOGIA
RIO GRANDE DO NORTE

Disciplina:
Programação Web



AULA 01

Introdução à Programação Web com ASP.NET

Apresentando o .NET Framework

Edmilson Campos, Prof. MsC.

<http://edmilsoncampos.net>

edmilson.campos@ifrn.edu.br

Introdução

- Um software framework da Microsoft
- Contém uma larga biblioteca de classes
- Execução de programa como aplicações em máquinas virtuais
- Versão Compact para Windows Mobile

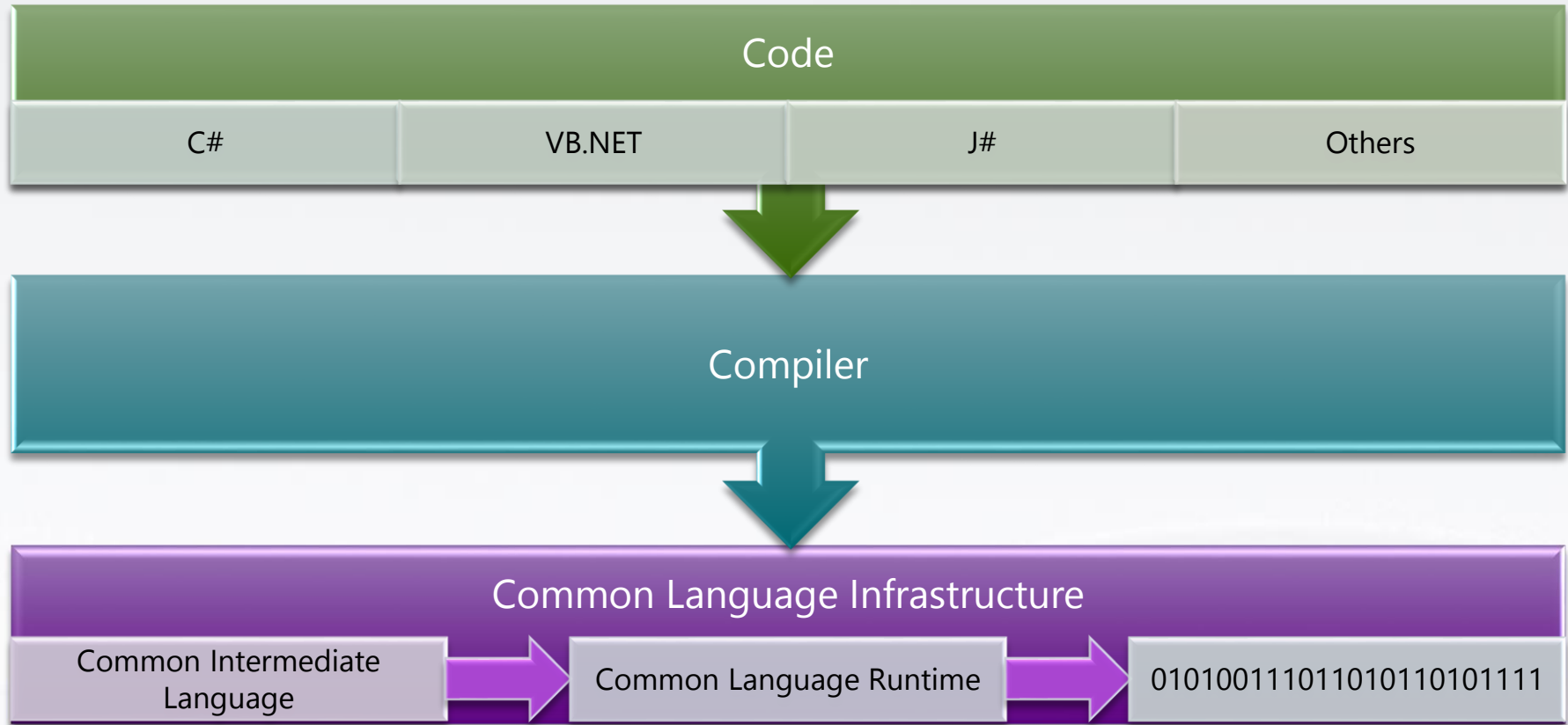
Principais Features

- Interoperabilidade
- Common Language Runtime (CLR)
- Base Class Library (BCL)
- Linguagem independente
- Desenvolvimento simplificado
- Segurança
- Portabilidade

Tecnologias e Serviços do .Net

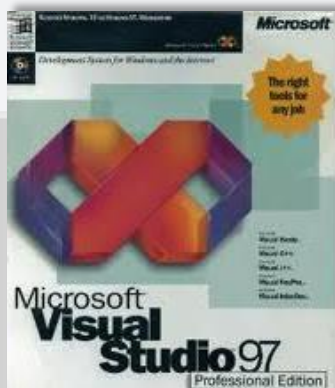
- Ambiente de Desenvolvimento
 - » Microsoft Visual Studio .Net e Framework .Net
- Dispositivos
 - » Computadores, Notebooks, dispositivos móveis
- Servidores .Net
 - » MS Host Integration Server e MS BizTalk Server
- XML Web Services
 - » Serviços que facilitam o compartilhamento de informações entre sistemas através da Internet

Common Language Infrastructure (CLI) Overview

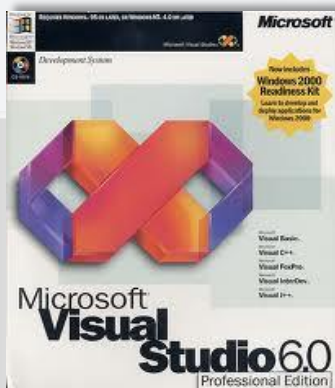


Evolução do Visual Studio

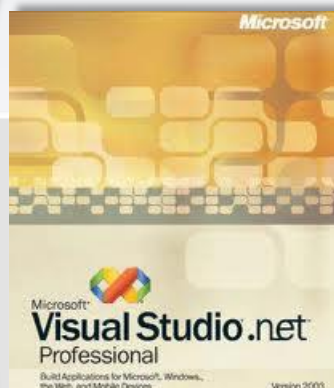
1997



1998



2002



2003



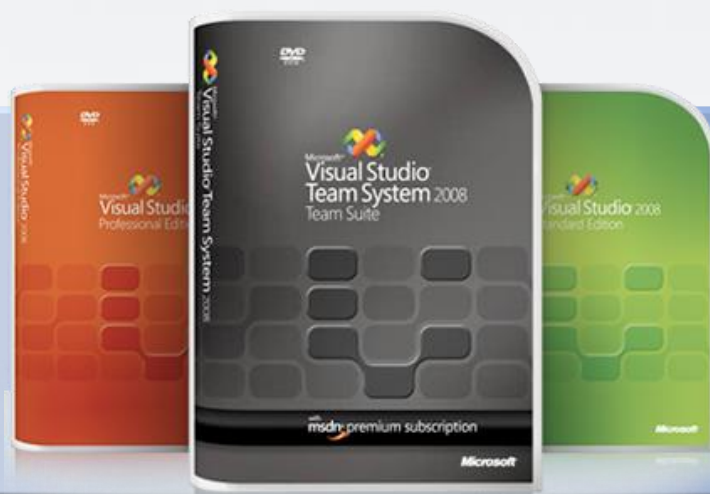
Lançamento do .NET

Evolução do Visual Studio

2005



2008



Microsoft Visual Studio 2010

VS 2010 Ultimate
Com MSDN

VS 2010 Premium
com MSDN

VS 2010 Professional
com MSDN

VS 2010 Professional



Microsoft®
Visual Studio® 2010
Ultimate

IntelliTrace™
UML Modeling
Architecture Explorer
Logical Class Designer
Load Testing

Test and Lab Manager

Test Case Management
Manual Testing
Test Record & Playback
Layer Diagram
Web Testing

Microsoft®
Visual Studio® 2010
Premium

UI Test Automation
Performance Profiling
Code Coverage
Database Change Mgmt
Database Unit Testing

Test Impact Analysis
Static Code Analysis
Code Metrics
Database Deployment
Test Data Generation

Microsoft®
Visual Studio® 2010
Professional

Silverlight Tools
SharePoint Development
Web Development
Generate from Usage
New WPF Editor

Multi-core Development
Cloud Development
Windows Development
Office Development
Customizable IDE

Visual Studio® Test Elements 2010

Test and Lab Manager

Test Case Management

Manual Testing

Team Explorer

Test Record & Playback

Lab Mgmt Config.

Team Agents

Visual Studio® Team Lab Management 2010

Virtual Env. Setup/Tear Down

Environment from Template

Checkpoint Environment

Visual Studio® Team Foundation Server 2010

Version Control

Gated Check-in

Reporting

Build Automation

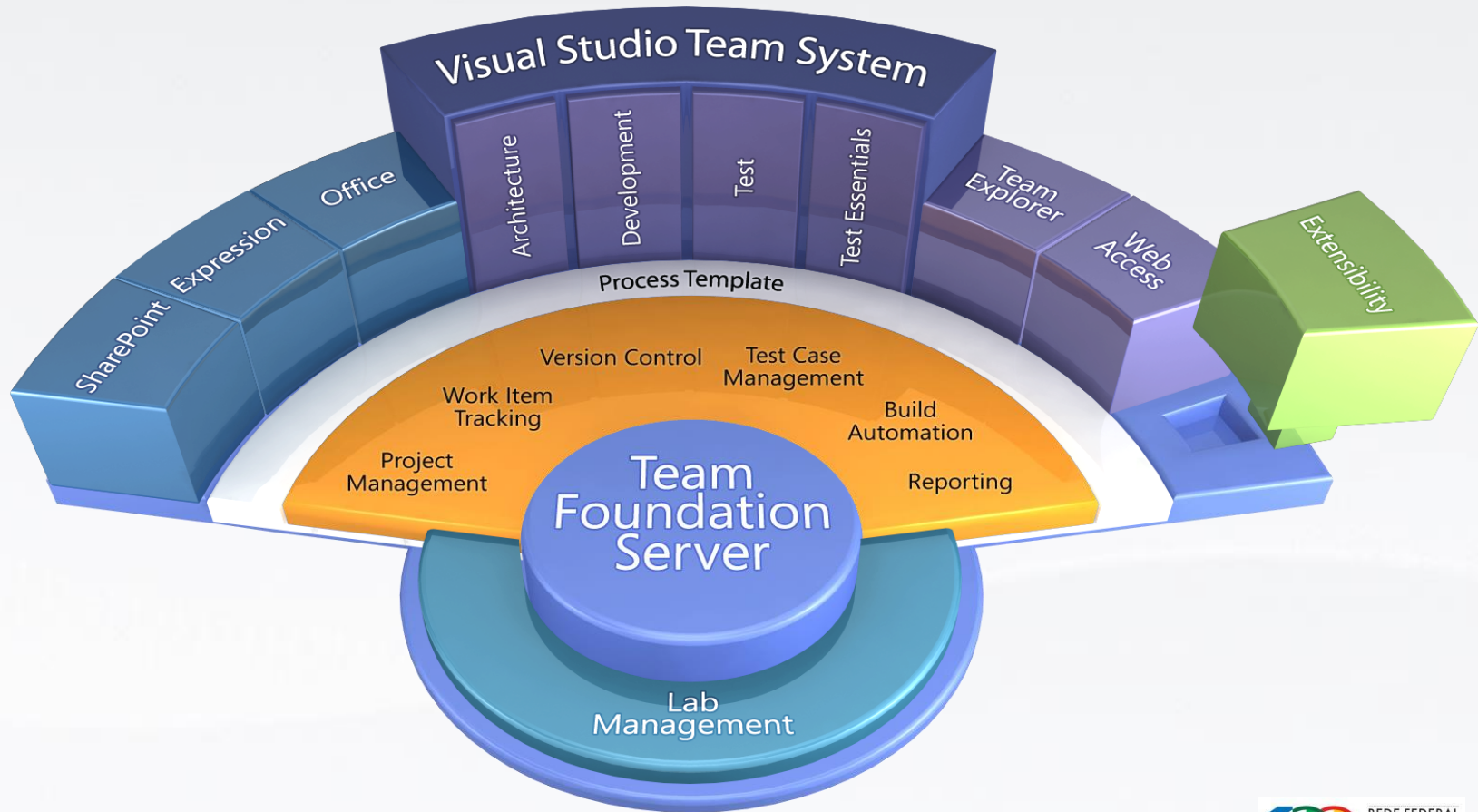
Branch Visualization

Test Case Management

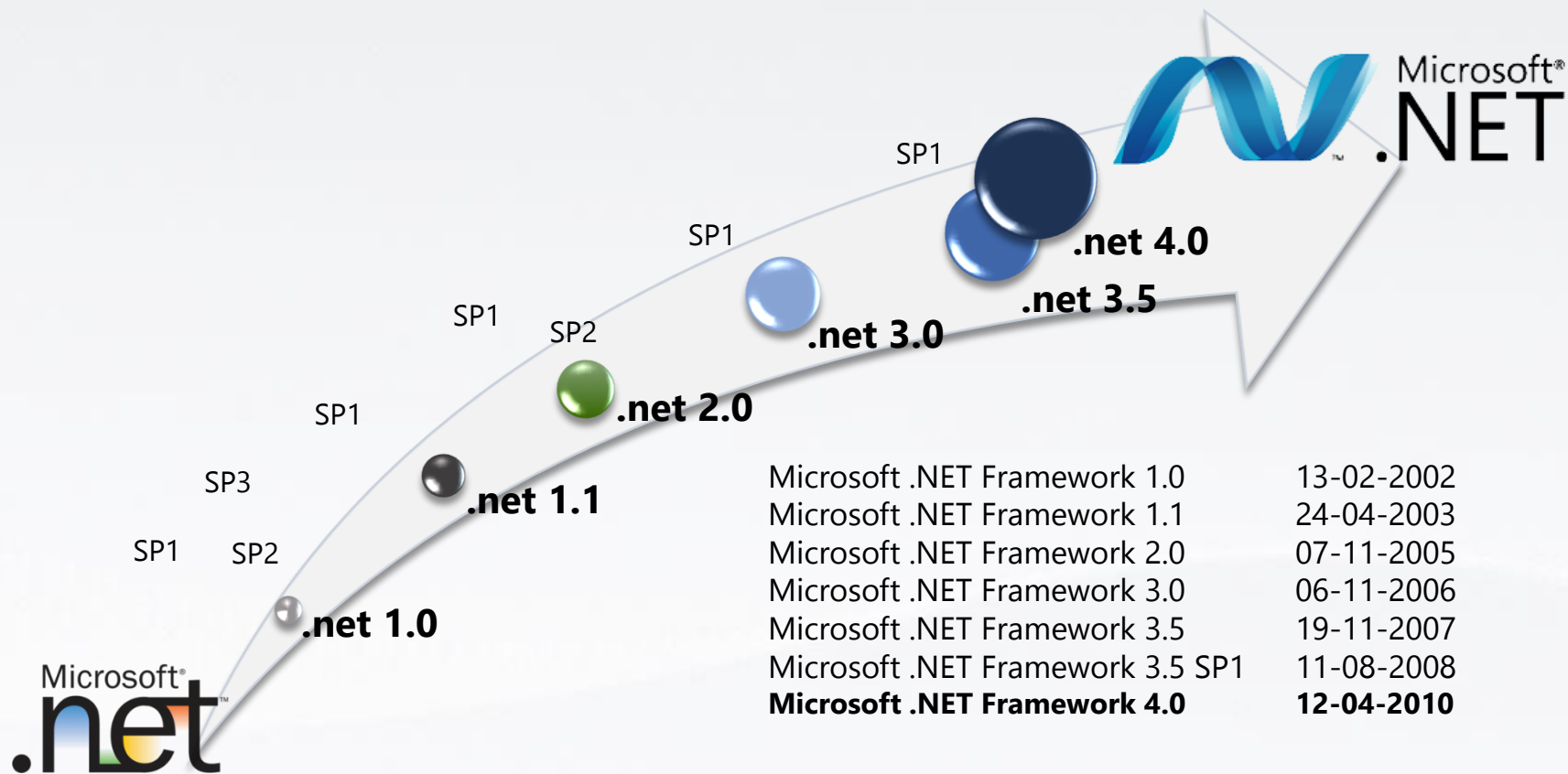
Agile Planning Tools

Team Portal

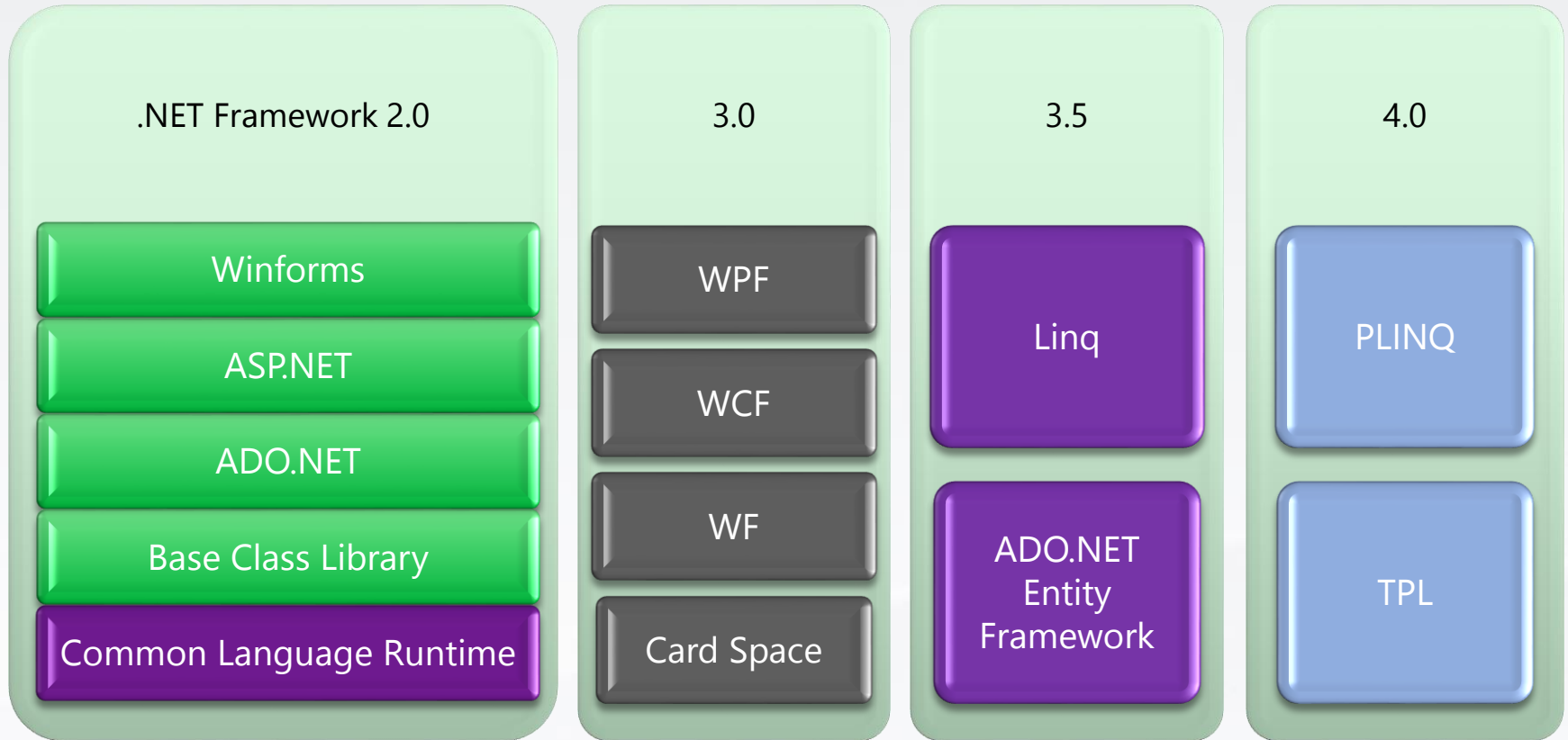
Visual Studio 2010



Evolução do .NET Framework



.NET Framework



Precedentes do .NET 4.0

.NET FRAMEWORK 3.5 + SP1

MVC

Dynamic Data

Entity Framework

Data Services

.NET FRAMEWORK 3.5

LINQ

WF & WCF
Enhancements

Add-in
Framework

Ajax

.NET FRAMEWORK 3.0 + SP1

WPF

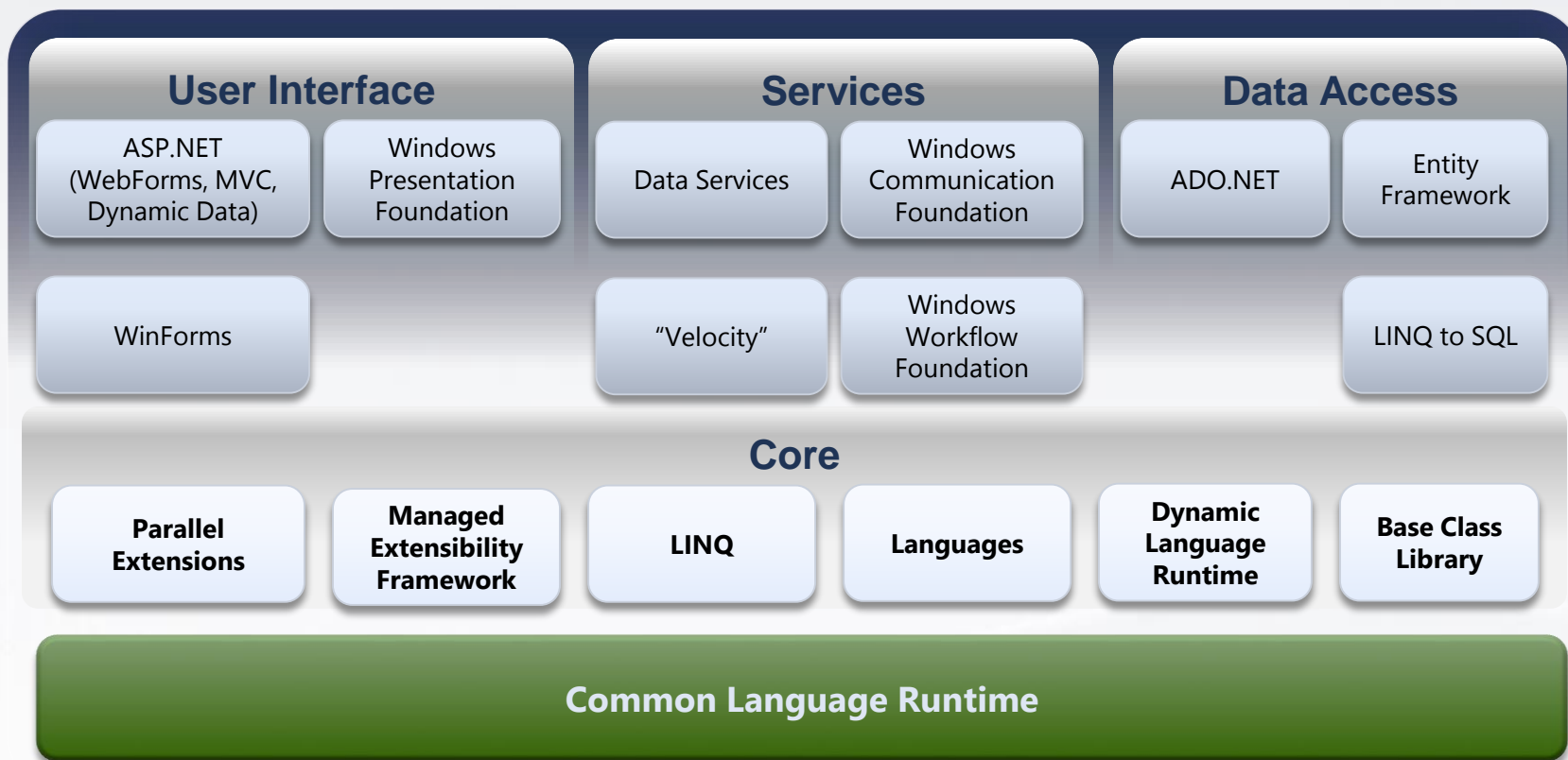
WCF

Workflow
Foundation

Windows
CardSpace

.NET Framework 2.0 + SP1

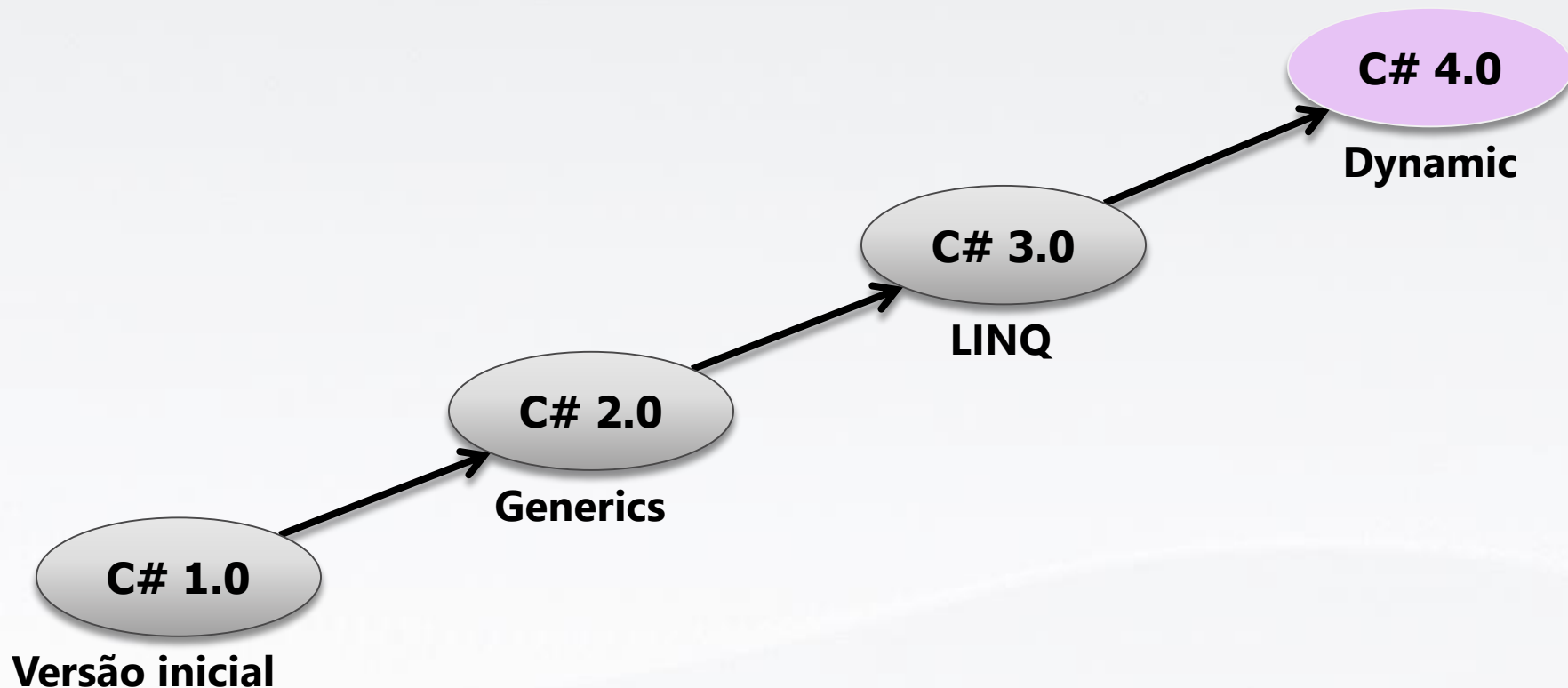
Estrutura do .NET Framework 4.0



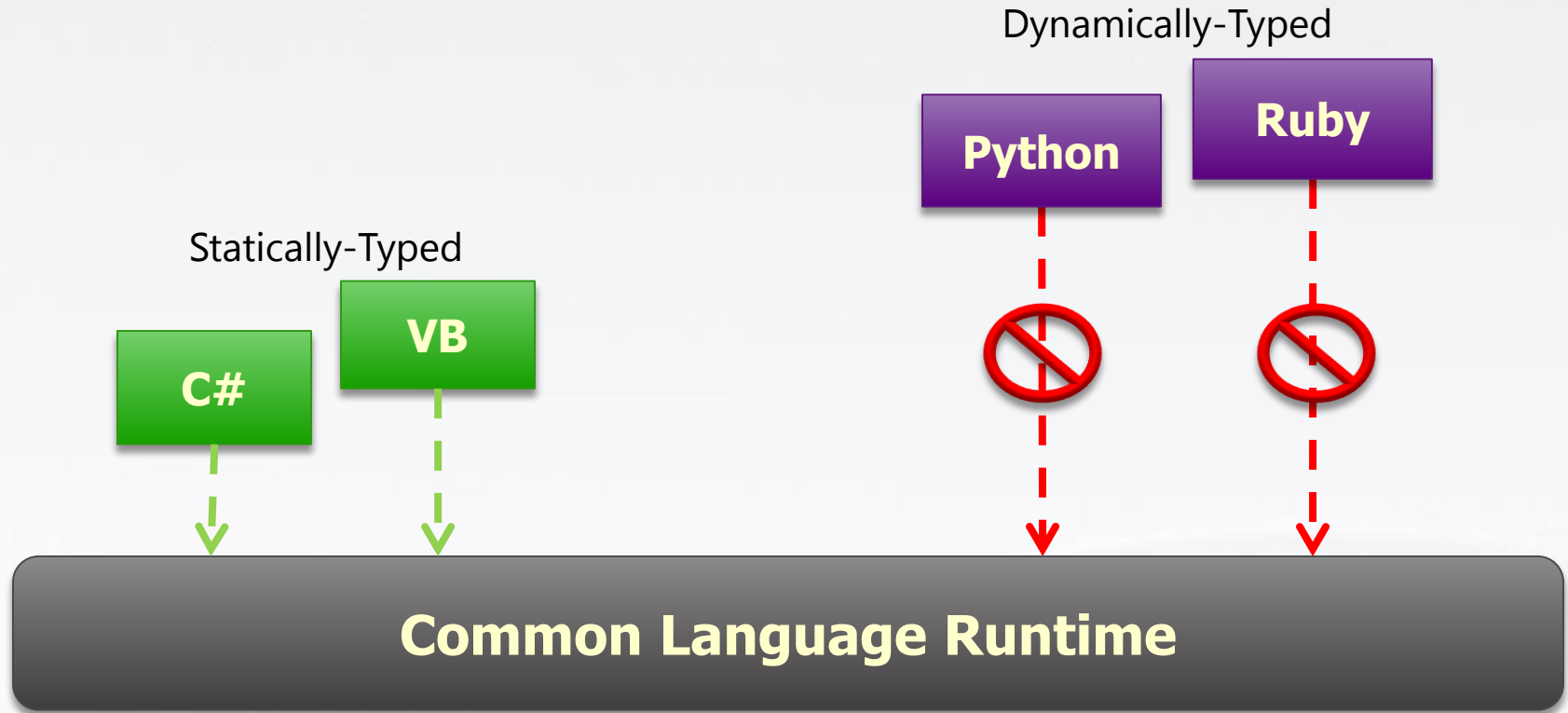
Algumas das linguagens suportadas

- C# 4.0
- VB. Net 10.0
- Iron Phyton
- Iron Ruby
- F#
- J#
- C++
- Pascal

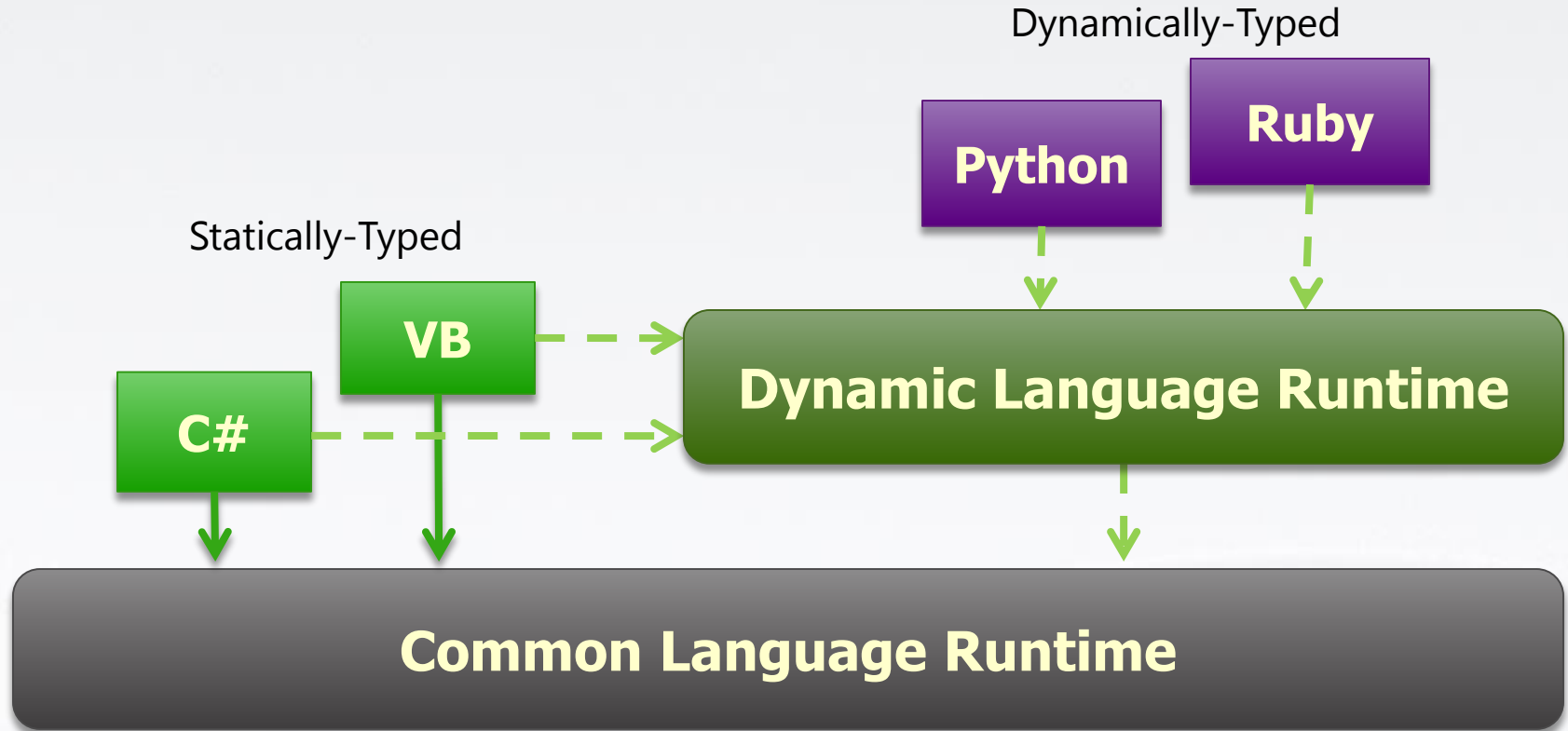
A evolução do C#



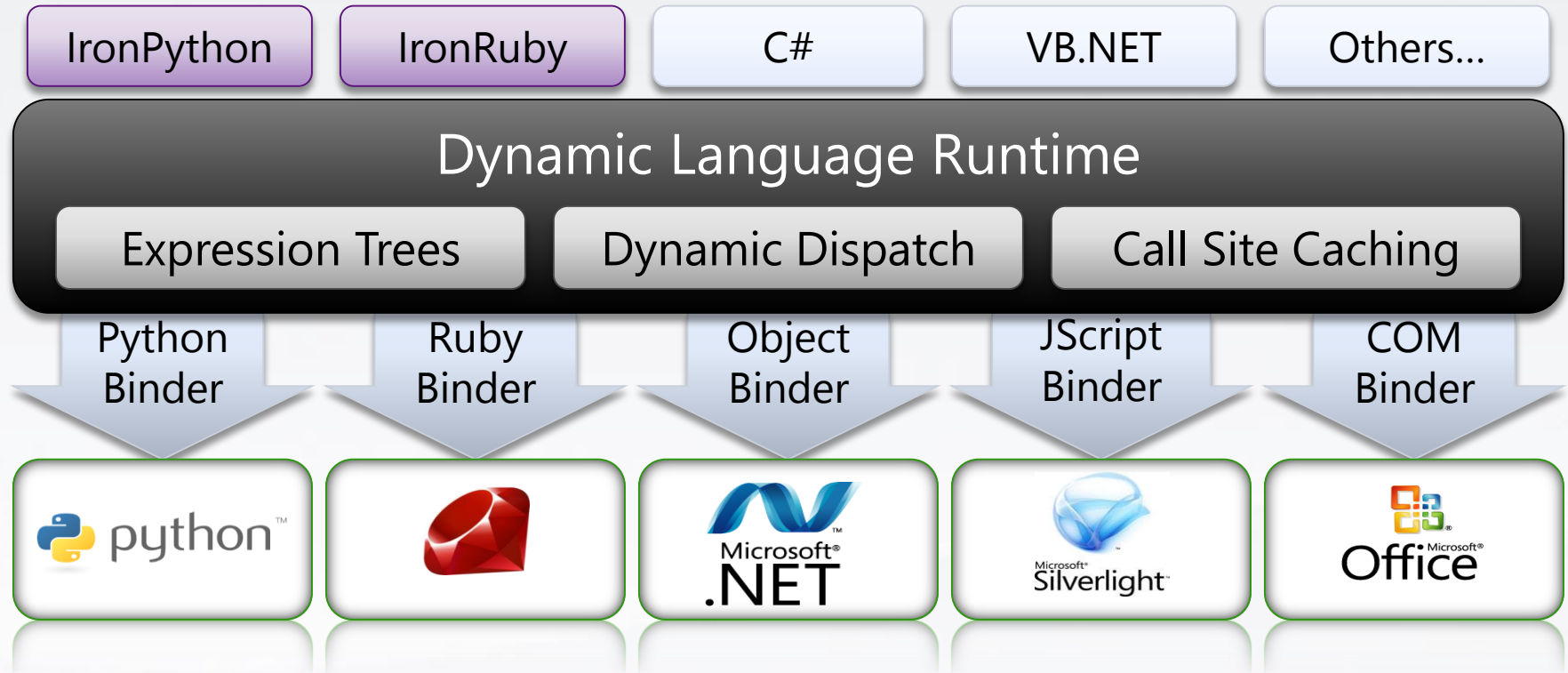
Dynamic Language Runtime



Dynamic Language Runtime

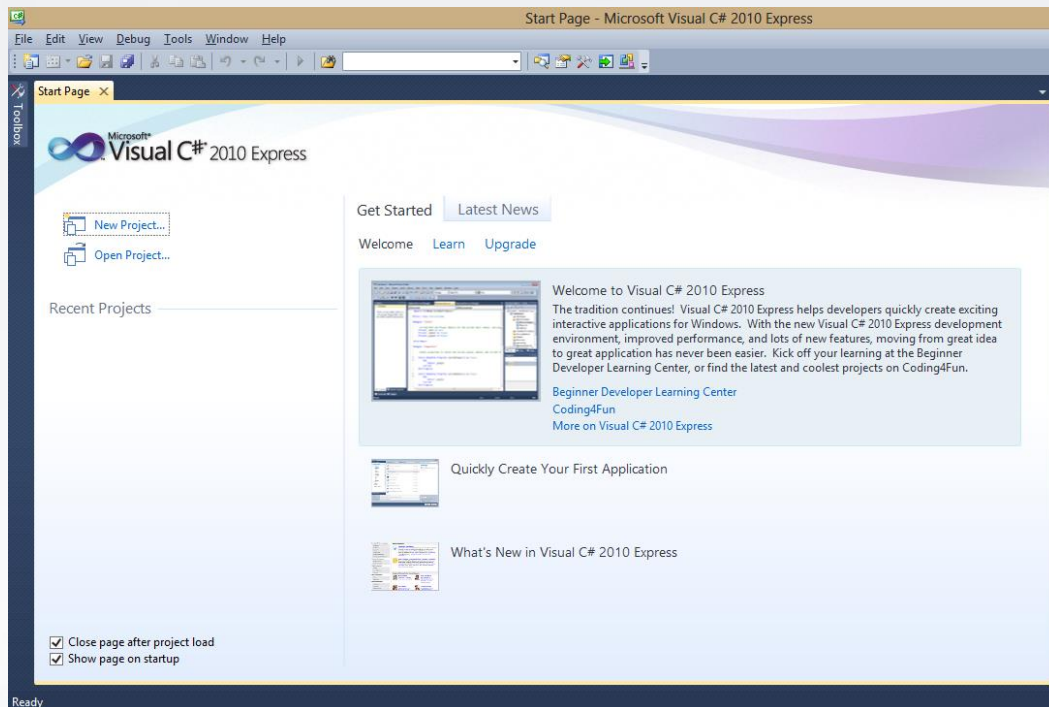


.NET Dynamic Programming



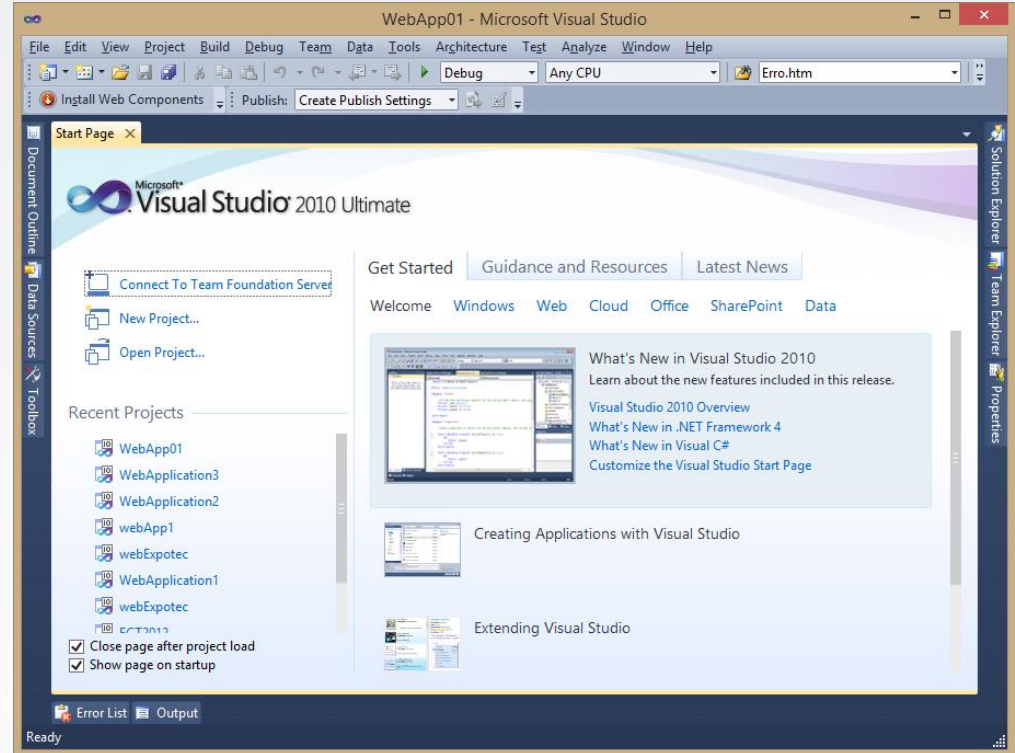
Começando a programar com VS 2010

- Conceito de IDE
- Tipos de projetos
- Escolha da linguagem
- Criação de aplicativos



Começando a programar com VS 2010

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Conhecendo a IDE

1

Toolbox

Palheta com componentes agrupados por tipo

2

Solution Explorer

Árvore com os arquivos do projeto

3

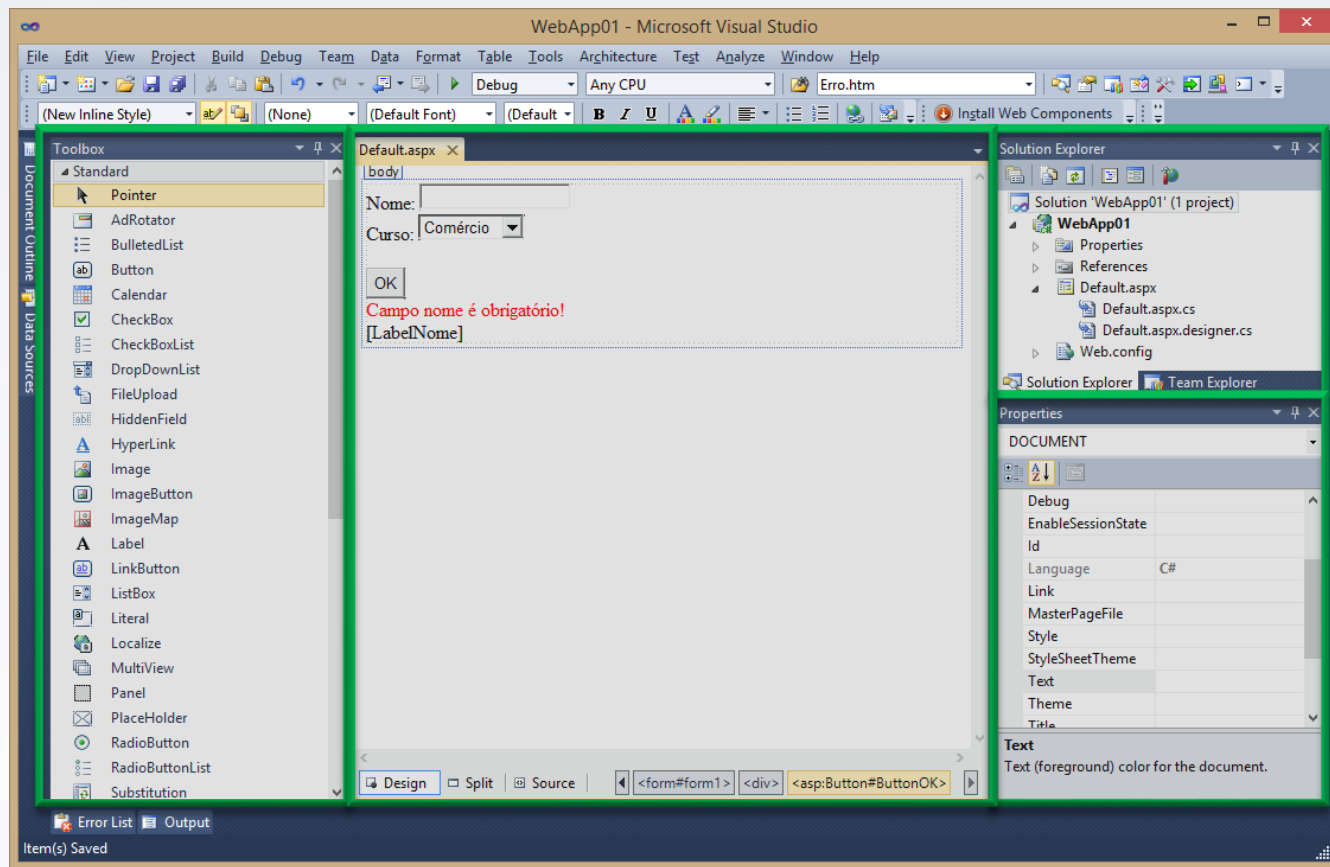
WebForm Design

Área destinada a edição do WebForm

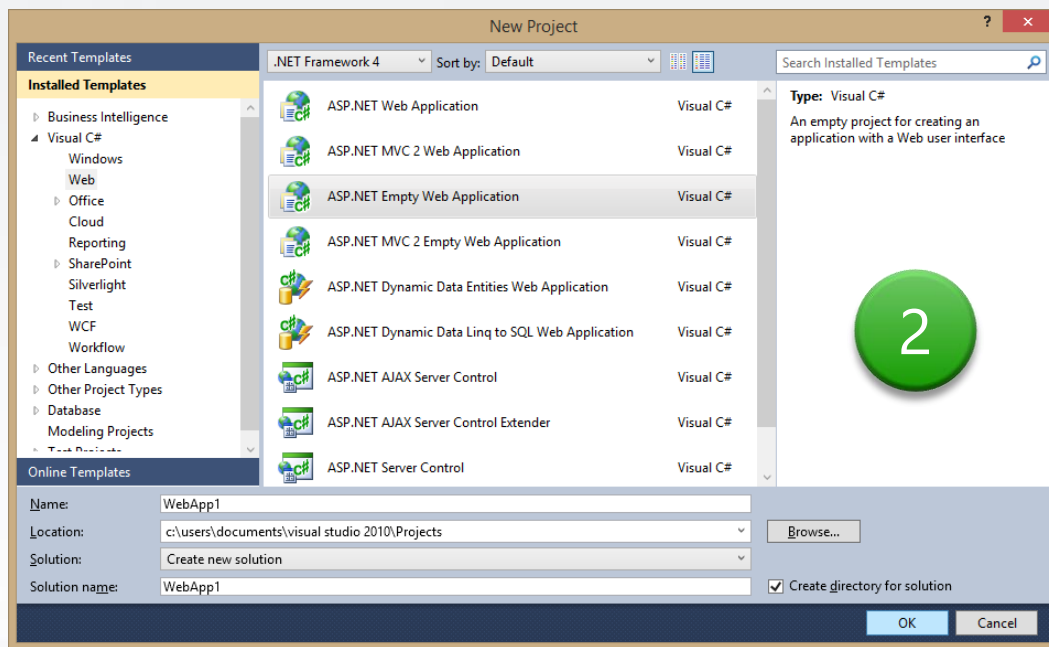
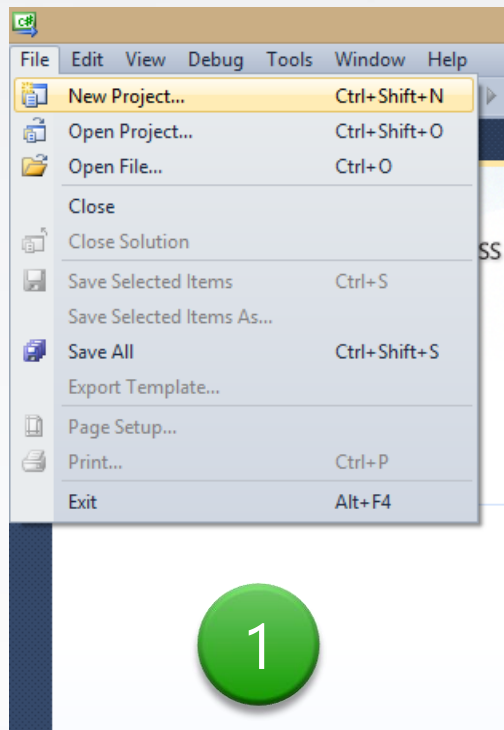
4

Properties

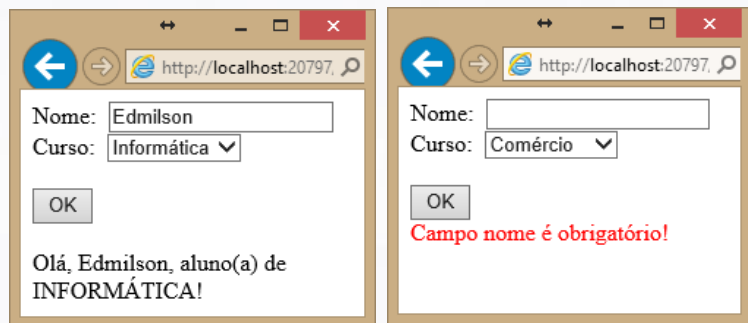
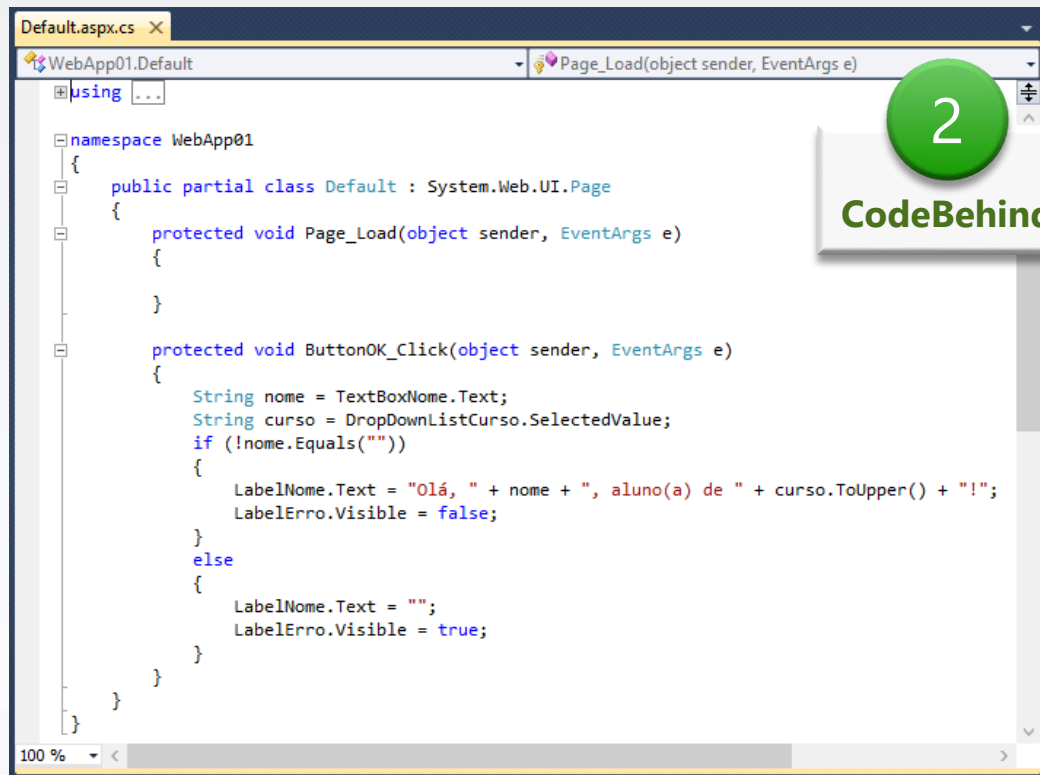
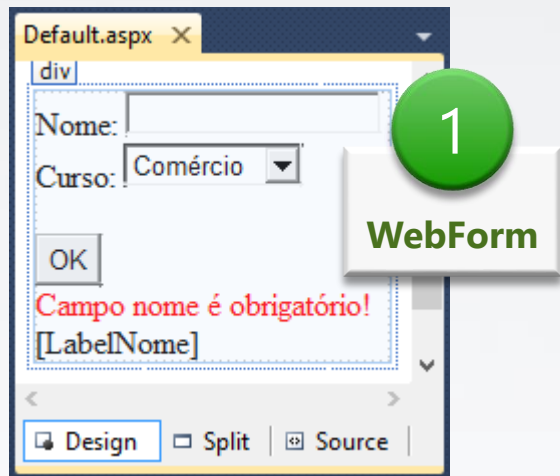
Propriedades dos Forms e seus componentes



Criando novo projeto web no VS 2010



Construindo uma primeira aplicação web



Referências

- Sharp. Visual C# 2012. Bookman, 2010.