



使用 .NET Core + DevOps 开发微信跨平台应用

演讲人：苏震巍

Senparc 盛派®

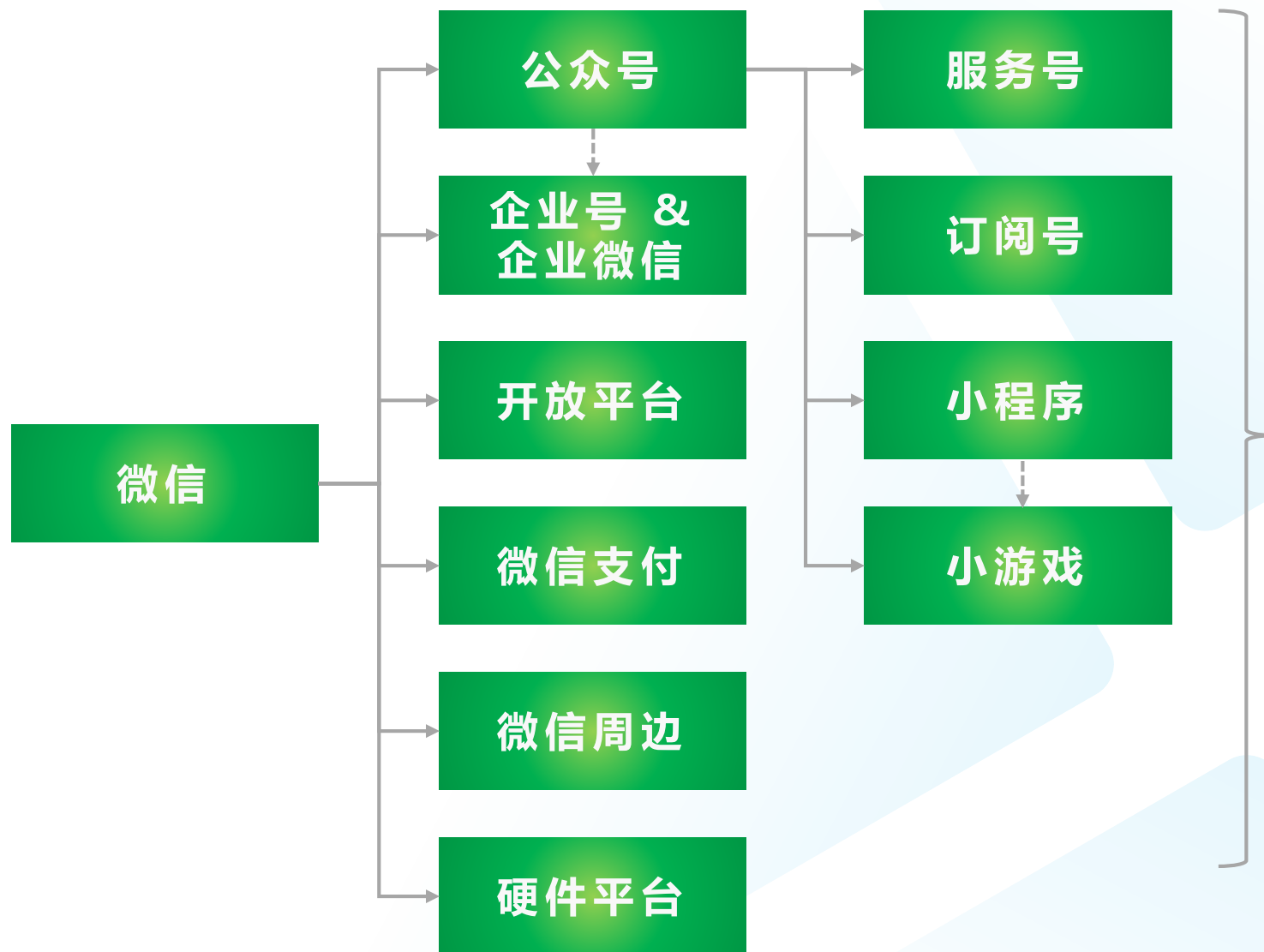
苏州盛派网络科技有限公司 CEO 兼 首席架构师

微信应用生态

使用 .NET Core + DevOps 开发微信跨平台应用

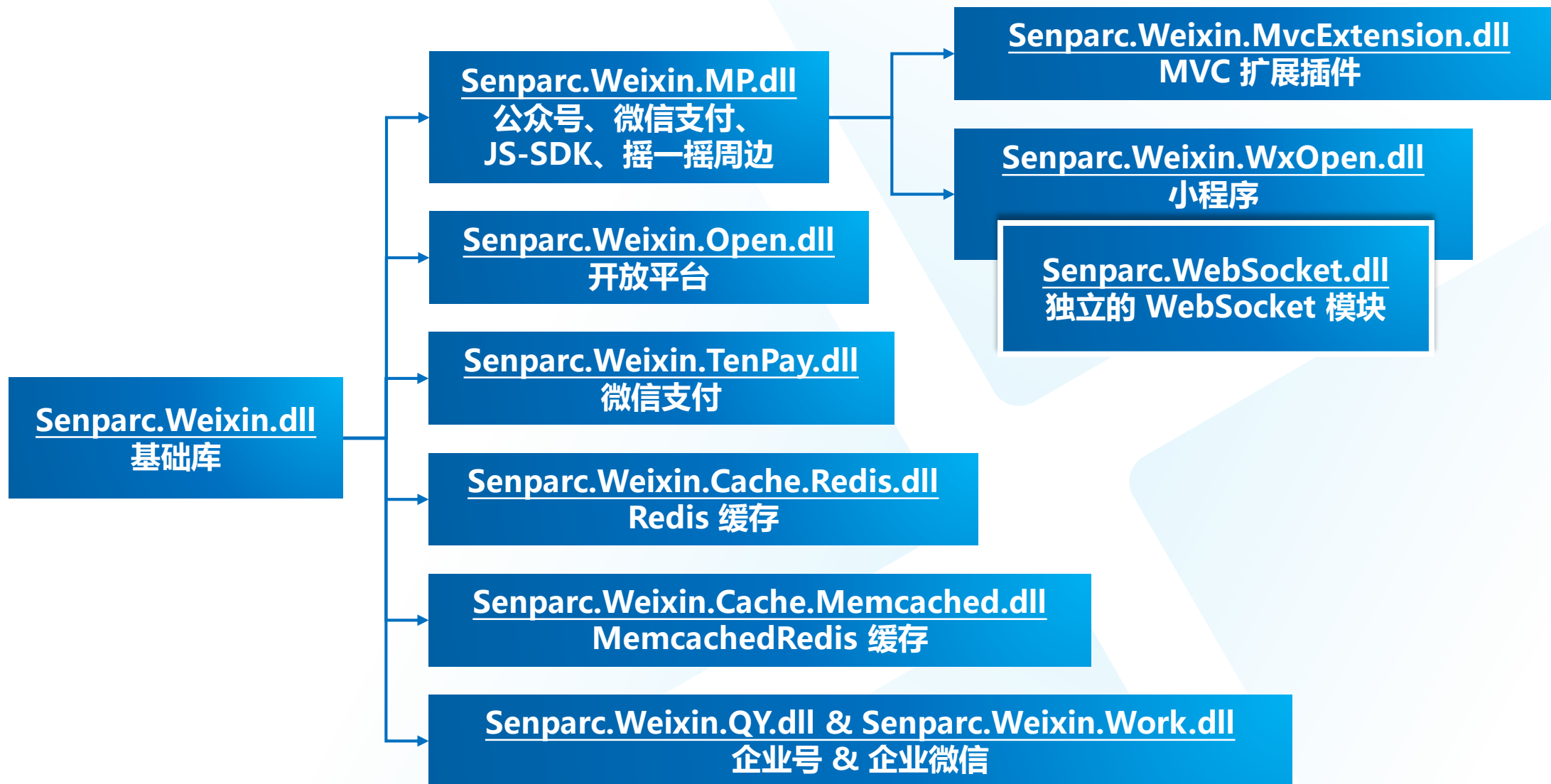


微信生态



Senparc 盛派®
Senparc.Weixin
SDK

Senparc.Weixin SDK 库



Senparc .NET 开源生态

全系列支持 .NET 3.5/4.0/4.5/.NET Standard 2.0/.NET Core 1.x/2.x



(爆品) 小程序给开发、部署带来的挑战



- 正式版发布需要审核，周期相对公众号网页更长
- 转发引爆的流量爆发力大
- 开放 WebSocket、直播流，推动互动及社交应用
- 5G背景下“全双工”模式是必然趋势之一
- 小程序无法直接刷新，载入过程必须一撮而就
- APP流量红利逐步消失，适用场景更加碎片化
- **多平台运营已经成为趋势（小程序、公众号、各种号）**

热点：公众号 -> 小程序 -> ?



爆发趋势明显，上新速度快

游戏占比最高，工具类发展迅速，社交互动正在崛起

区域性下沉特征明显，首入流量多来自于转发（入口变化）

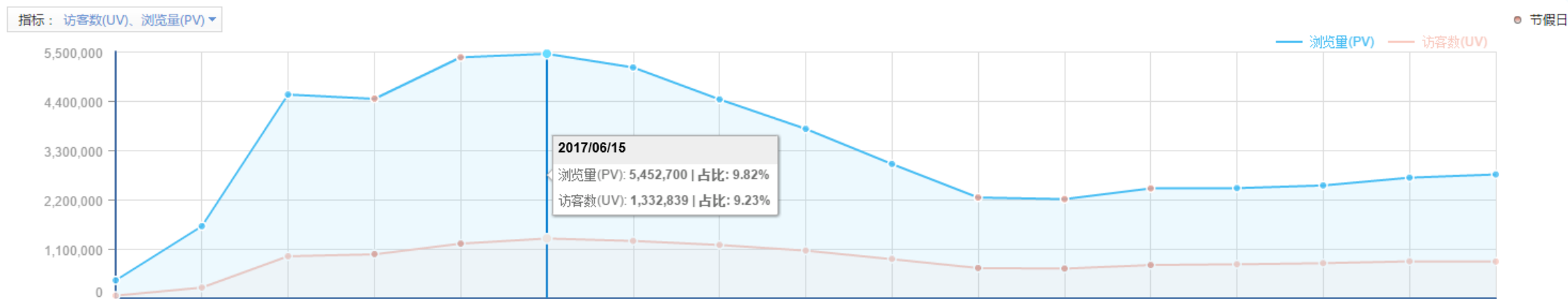
爆品小程序层出不穷，迭代速度快，生命周期出现“分裂”格局

总体上仍然处于初级阶段，发展空间巨大

一个区域性应用的爆发周期



访问量：2 周 PV 5600万，UV 1500万



开发/集成/测试

使用 .NET Core + DevOps 开发微信跨平台应用



Senparc.Weixin 全部开源



<https://github.com/JeffreySu/WeiXinMPSDK>


Watch > 600


Star > 4,000

Fork > 3,000

Nuget Total Download > 710,000

← → ↺ 🏠 🔒 GitHub, Inc. [US] | <https://github.com/JeffreySu/WeiXinMPSDK> ★ 震巍

 / [Pull requests](#) [Issues](#) [Marketplace](#) [Explore](#) 🔔 + 👤

 [JeffreySu](#) / [WeiXinMPSDK](#)

[👁 Unwatch](#) 626 [★ Unstar](#) 4,472 [🔗 Fork](#) 3,187

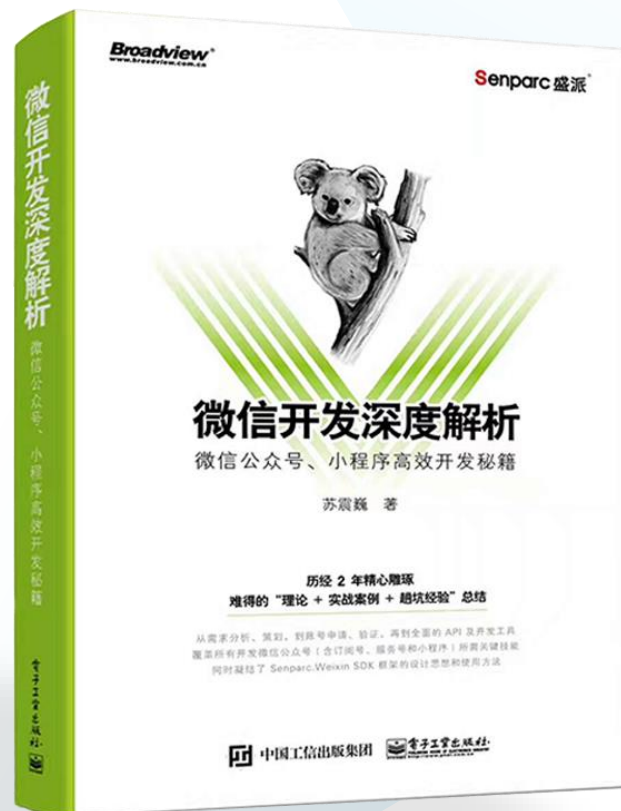
[↔ Code](#) [! Issues 97](#) [🔗 Pull requests 0](#) [📁 Projects 5](#) [📖 Wiki](#) [📊 Insights](#) [⚙ Settings](#)

微信公众平台SDK Senparc.Weixin for C#, 支持.NET Framework及.NET Core。已支持微信公众号、小程序、小游戏、企业号、企业微信、开放平台、微信支付、JSSDK、微信周边等全平台。 WeChat SDK for C#. <https://weixin.senparc.com> [Edit](#)

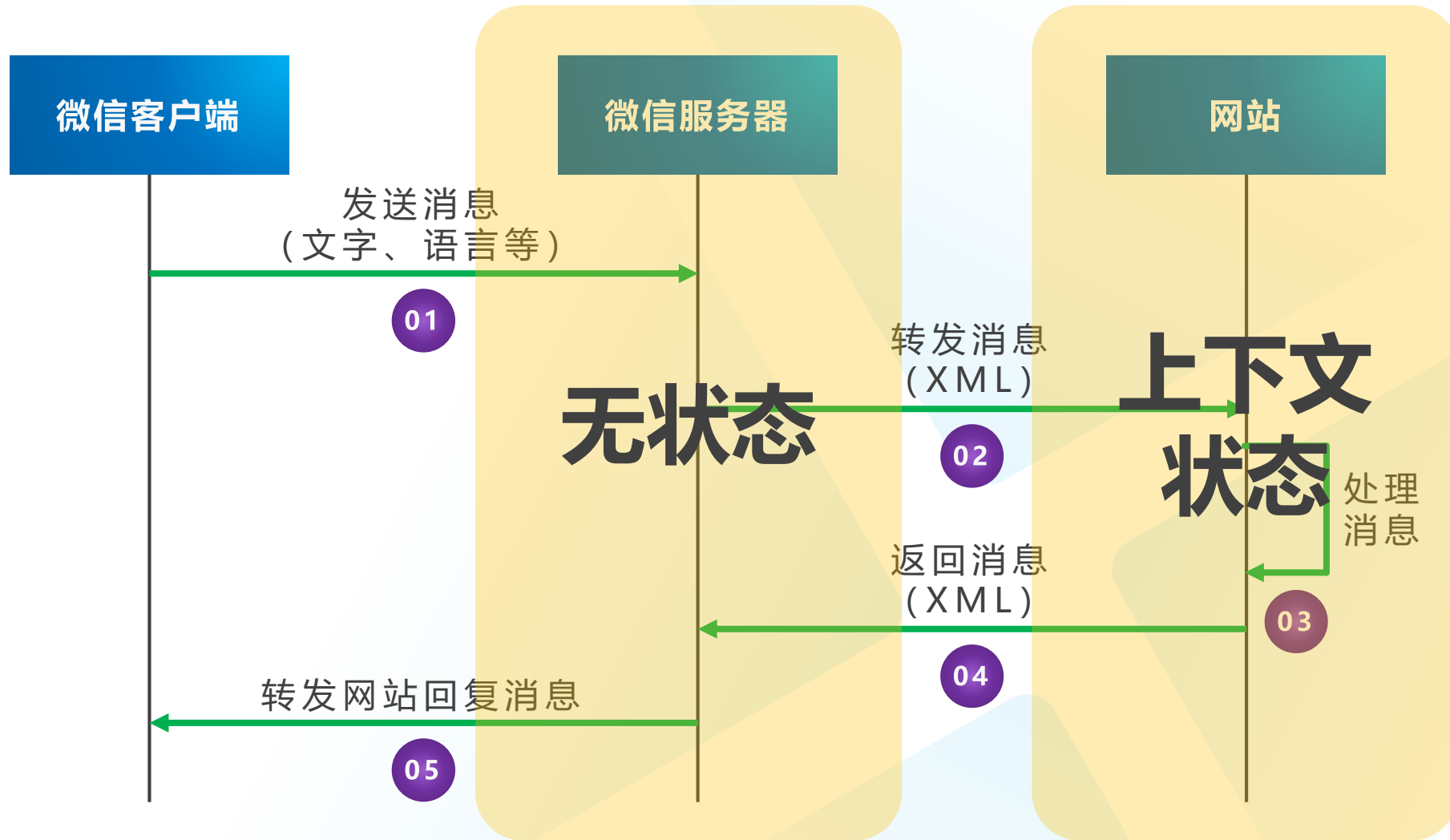
[wechat](#) [wechat-sdk](#) [c-sharp](#) [sdk](#) [nuget](#) [redis](#) [memcached](#) [cache](#) [weixin-sdk](#) [senparc](#) [dotnet-standard](#) [weixin](#) [net-core](#)

[net-core-2](#) [tenpay](#) [jssdk](#) [distributed-cache](#) [officialaccounts](#) [dotnet-core](#) [weixin-miniprogram](#)

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《微信开发深度解析：公众号、小程序高效开发秘籍》



公众号开发演示 (.NET Core)

使用 .NET Core + DevOps 开发微信跨平台应用



小程序开发演示 (.NET Core)

使用 .NET Core + DevOps 开发微信跨平台应用





公众号



小程序

DevOps - CI

使用 .NET Core + DevOps 开发微信跨平台应用



容器打包的不同方式



...

Github + Azure DevOps 进行代码托管和 CI (Continuous Integration)



Senparc - CI

Tasks Variables Triggers Options Retention History Save & queue Discard Summary Queue

Process
Build process

Get sources

xiangyan99/WeiXinMPSDK master

Phase 1

Run on agent

dotnet restore
.NET Core

Build solution
Visual Studio 8

Publish

Upload

Select a source



VSTS Git



GitHub



GitHub Enterprise



Subversion



Bitbucket® Cloud



External Git



VSTS Git



GitHub



GitHub Enterprise



Subversion



Bitbucket® Cloud



External Git

☐ Report build status ⓘ

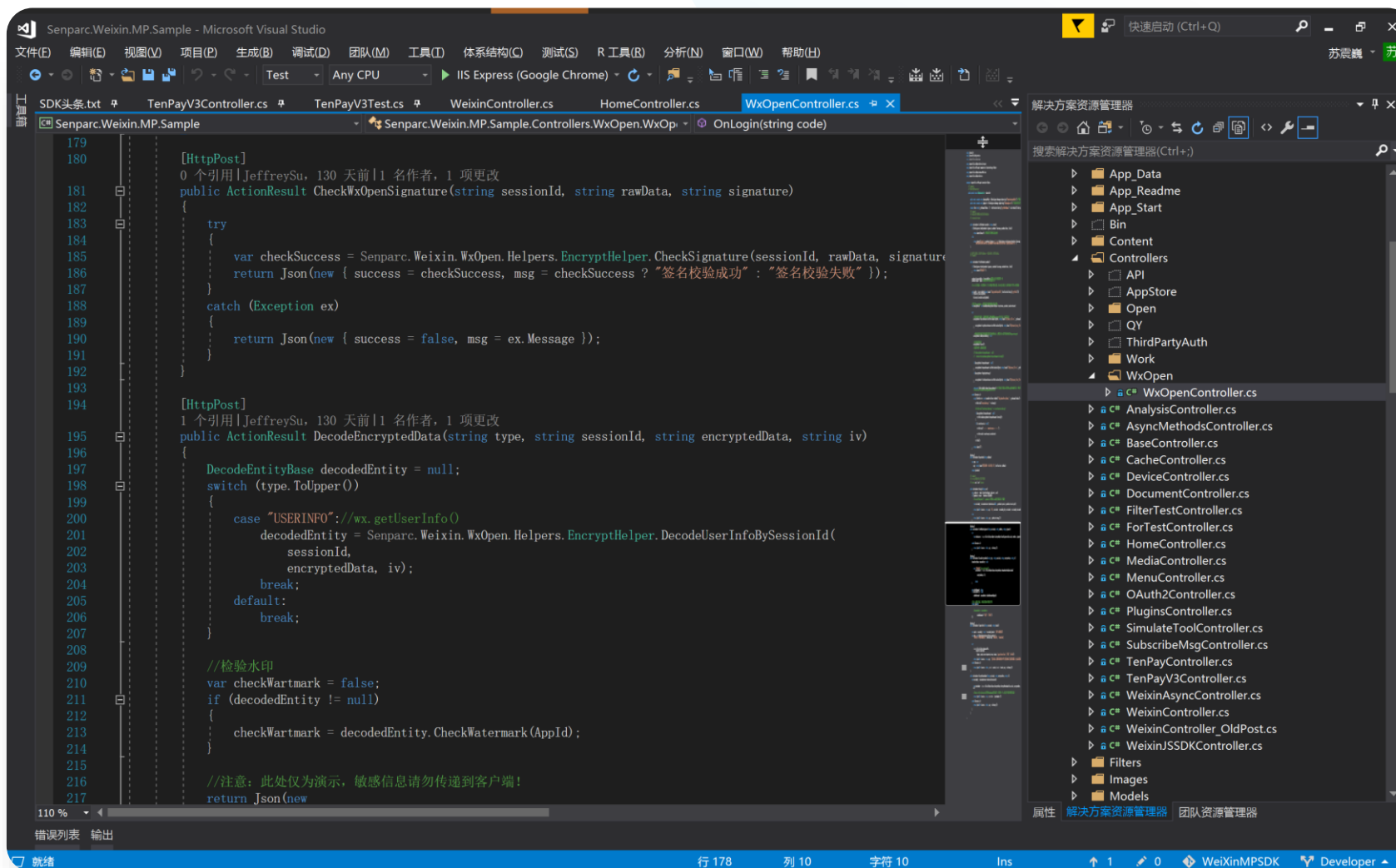
☐ Checkout submodules ⓘ

☐ Checkout files from LFS ⓘ

☐ Don't sync sources ⓘ

☐ Shallow fetch ⓘ

Github + Azure DevOps 进行代码托管和 CI



Github + Azure DevOps 进行代码托管和 CI



The screenshot shows the configuration for a build process in Azure DevOps. The left sidebar lists tasks: Get sources, Phase 1 (Run on agent), Use NuGet 4.4.1, NuGet restore, Build solution, Test Assemblies, Publish symbols path, and Publish Artifact. The main area shows the configuration for the selected task: Name (Senparc.Weixin SDK-ASP.NET Core (.NET Framework)-CI), Agent queue (Hosted VS2017), Parameters (Path to solution or packages.config: Samples\Senparc.Weixin.MPSample.vs2017*.sln), and Artifact Name (drop).



The screenshot shows the 'Build Definitions' page in Azure DevOps. It lists build definitions with columns for Name, Status, and Triggered by. A build definition named 'Senparc.Weixin SDK-ASP.NET Core (.NET Framework)-CI' is shown with a status of 'succeeded' and triggered by 'Update Contributors.md'.



The screenshot shows the 'Build Details' page for the build definition 'Senparc.Weixin SDK-ASP.NET Core (.NET Framework)-CI'. It displays details such as Repository (JeffreySu/WeiXinMPSDK), Default queue (Hosted VS2017), Queue status (Enabled), and Last updated by (苏震巍). It also shows the 'Queued & running' status (No builds queued or running at the moment) and the 'Recently completed' build (#20180507.2) with a status of 'succeeded'. The 'Analytics' section shows the Number of builds (14) and Success rate (57.14%).

使用机器人自动处理消息



localhost:30213/Robot/Item?name=SenparcRobot#

Senparc.Weixin.Robot.WebManagerHomeAboutContact

微信机器人详情: SenparcRobot

名称	状态	登录微信号	好友数量	时间点	操作
SenparcRobot	已登录	苏震巍	3931 / 已结束	创建: 2018/5/19 21:41:45 WebWxSync: 2018/5/19 21:47:21 SyncCheck: 2018/5/19 21:48:24	<div>详情</div> <div>重启</div>

盛派网络小助手

姑苏慧-会员微网站群

DZD

Hug恒格关务咨询

奇异恩典

龚菁

Kent-O2O

群友助手

古道药业

苏州新闻广播

IT人俱乐部

聊天分组

苏震巍1

dotnet跨平台(飞雪)交流群1

21 21世纪经济报道1

微信卡包1

程序猿1

李开复1

盛派网络小助手1

dnc开源峰会 CEO CTO 天使联盟2区1

前端之巅1

分组1 (1) 苏震巍

请输入内容

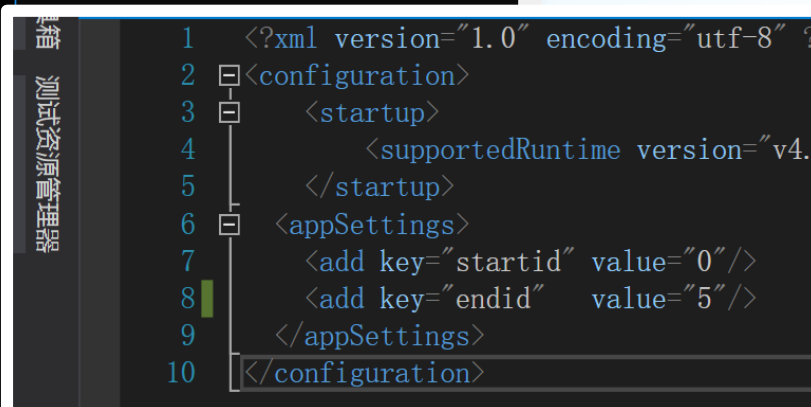
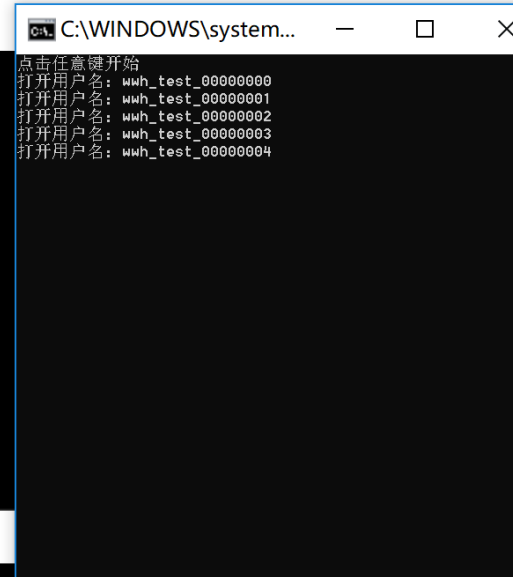
发送

工具箱

管理人员

删除分组

使用机器人自动处理消息



DevOps – CD

使用 .NET Core + DevOps 开发微信跨平台应用



持续部署 (Continuous Deployment)



xiangyan99 / WeiXinMPSDK
forked from JeffreySu/WeiXinMPSDK

Unwatch 1 Star 0 Fork 2,705

Code Pull requests 0 Projects 0 Wiki Insights Settings

Branch: master WeiXinMPSDK / Deploy2AzureAppService / Create new file Upload files Find file History

This branch is 29 commits ahead, 25 commits behind JeffreySu:master. Pull request Compare

xymsft Merge branch 'master' of https://github.com/xiangyan99/WeiXinMPSDK Latest commit b71af83 a minute ago

README.md rename 2 minutes ago

azuredeploy.json Merge branch 'master' of https://github.com/xiangyan99/WeiXinMPSDK a minute ago

azuredeploy.parameters.json rename 2 minutes ago

metadata.json rename 2 minutes ago

README.md

自动创建Azure App Service以及Redis


Deploy to Azure

[Home](#) > [Custom deployment](#)

Custom deployment

Deploy from a custom template

TEMPLATE

 Customized template
3 resources

[Edit template](#) [Edit parameters](#) [Learn more](#)

BASICS


* Subscription


* Resource group ☒ Create new ☐ Use existing


* Location

SETTINGS

微信AppId

* Weixin App Id 

* Weixin App Secret 

* Token 

TERMS AND CONDITIONS

[Azure Marketplace Terms](#) | [Azure Marketplace](#)

By clicking "Purchase," I (a) agree to the applicable legal terms associated with the offering; (b) authorize Microsoft to charge or bill my current payment method for the fees associated the offering(s), including applicable taxes, with the same billing frequency as my Azure subscription, until I discontinue use of the offering(s); and (c) agree that, if the deployment involves 3rd party offerings, Microsoft may share my contact information and other details of such deployment with the publisher of that offering.

☐ I agree to the terms and conditions stated above

持续部署



Home > WeChatAppService

WeChatAppService

Resource group

Search (Ctrl+/)

Overview

Activity log

Access control (IAM)

Tags

SETTINGS

Quickstart

Resource costs

Deployments

Policies

Properties

Locks

Automation script

MONITORING

Metrics

Alerts (classic)

Diagnostics logs

Application insights

Log analytics (OMS)

Log search

Advisor recommendations

SUPPORT + TROUBLESHOOTING

+ Add

Edit columns

Delete resource group

Refresh

Move

Assign Tags

Subscription (change)

Windows Azure MSDN

Subscription ID

1671330e-96fe-4c9b-ac42-8294a...

Deployments

1 Succeeded

Tags (change)

Click here to add tags

Filter by name...

All types

All locations






No grouping

3 items

☒ Show hidden types

<input type="checkbox"/>	NAME	TYPE	LOCATION	
<input type="checkbox"/>	AppServicePlanqmvystzau25hy	App Service plan	East Asia	...
<input type="checkbox"/>	cacheqmvystzau25hy	Redis Cache	East Asia	...
<input type="checkbox"/>	WeChatqmvystzau25hy	App Service	East Asia	...

Pick a publish target

-  App Service
-  Azure Virtual Machines
-  Container Registry
-  IIS, FTP, etc
-  Folder

Azure App Service

Fully managed, and highly scalable cloud environment

- ☐ Create New
- ☒ Select Existing

Import Profile...

Publish


Cancel

持续部署



App Service

Host your web and mobile applications, REST APIs, and more in Azure

 Microsoft
xiangyan@microsoft.com


Subscription

Windows Azure MSDN

View

Resource Group

Search

- ▶ ABCPoc
- ▶ cleanupservice
- ▶ TA
- ▶ WeChat
- ▶ WeChatAppService
 - ▶  WeChatqmvystzau25hy

OK

Cancel

使用 NeuChar 快速开发和集成

使用 .NET Core + DevOps 开发微信跨平台应用



什么是 NeuChar?



NeuChar 是一套开放的跨平台互动通讯标准，将众多开放平台的交互功能做了大量的整理和归纳，使用 NeuChar 可以实现“一次设置，多平台同步”的效果。

NeuChar 目前已经嵌入 Senparc.Weixin SDK，无需编写任何额外代码即可快速、灵活地设置多平台回复消息，未来将支持智能客服等接口。

NeuChar 核心执行模块开源地址：<https://github.com/Senparc/NeuChar>

NeuChar 官网地址：<https://www.neuchar.com>

团队成员：[Francis Fu, Kitty Hu, Jeffrey Su](#)



NeuChar 演示

NeuChar 菜单及素材

NeuChar 自定义回复



NeuChar 时光机



NeuChar AppStore

– 应用中枢

NeuChar 做了什么?



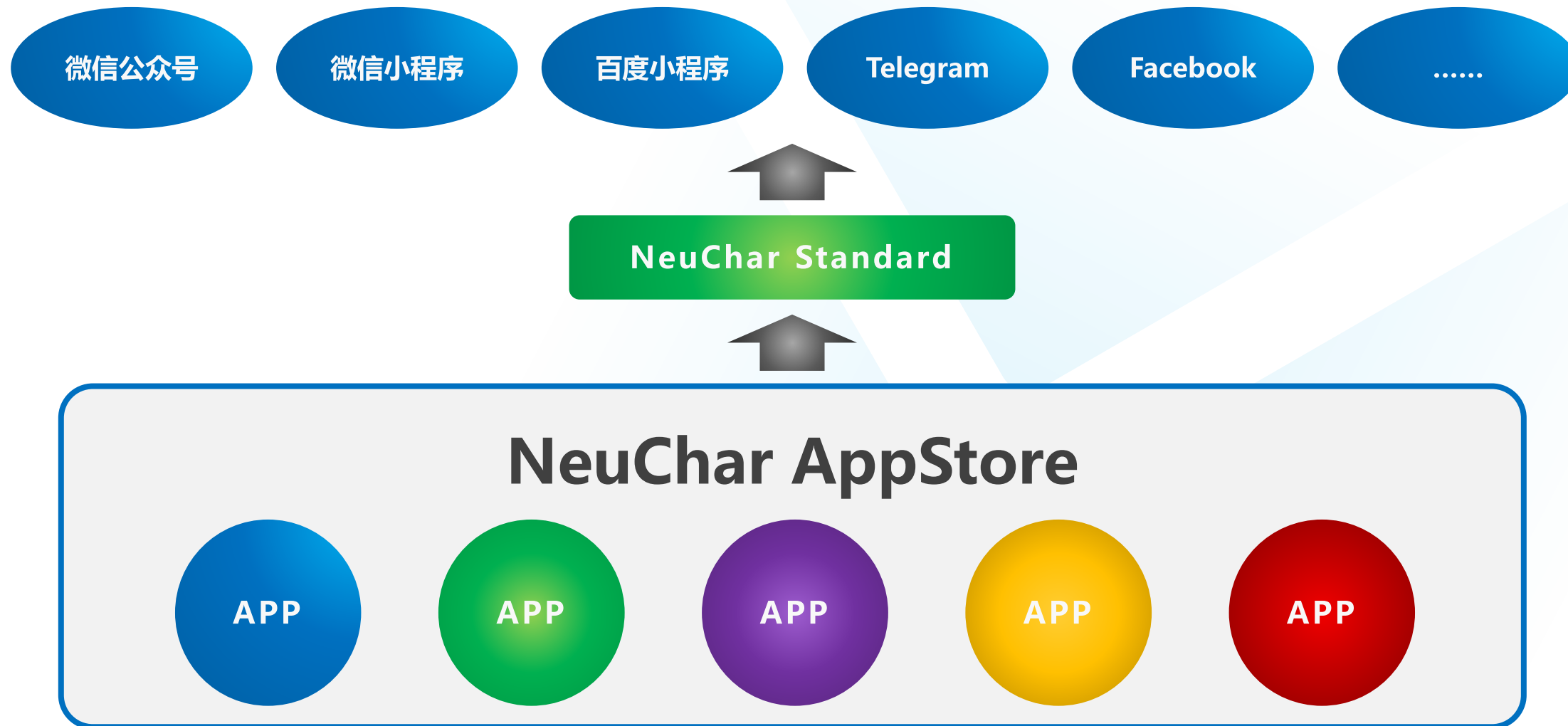
开发一个微信公众号应用

NeuChar 帮你生成通用标准

将通用标准运用于其他平台
(小程序、企业号、QQ企业号、百度小程序、Facebook.....)

(可选) 分享 APP 模块到 AppStore,
由应用中枢组成完整应用

NeuChar 做了什么?





课堂演示 Demo 代码:

<https://github.com/JeffreySu/WeiXinMPSDK>



谢谢大家!

盛派·苏震巍 **Senparc** 盛派[®]

E-mail: zsu@senparc.com