# 微信接口文档

**测试地址:http://172.16.6.205**

**注：所有请求都以Post提交**

**返回参数**

{

"Data": null, 数据

"IsSucess": false,是否成功

"Code": "500",返回码

"Message": "缓存失效，请重新生成二维码登录"返回消息

}

## 1登陆

### 1、获取登录二维码

|  |  |
| --- | --- |
| URL | /api/login/GetQrCode |
| 参数 | 无 |
| 结果 | {  "QrBase64": "xxxxxx",base64图片  "Uuid": "4rWYHefRrq\_Zd\_VXCjim",UuId  "ExpiredTime": "2019-03-12T17:15:42.9572322+08:00"过期时间  } |

### 2、检查是否登陆成功

|  |  |
| --- | --- |
| URL | /api/login/CheckLogin/{Uuid} |
| 参数 | "Uuid": "4rWYHefRrq\_Zd\_VXCjim",UuId |
| 结果 | {  "Uuid": "AuqS8OmJlnSYu\_cHeCAW",UuId  "WxId": null,微信Id  "NickName": null,昵称  "State": 0,状态 -1失效 0:未扫码 1：扫码登陆中 2：登陆成功  "Device": null,设备  "HeadUrl": null头像Url  } |

### 3、初始化微信消息

|  |  |
| --- | --- |
| URL | api/Login/NewInit/{wxId} |
| 参数 | {  "wxid":"wxid\_0744rzt31nm122",微信Id [Required]    } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

## 2好友

### 1、获取好友列表

|  |  |
| --- | --- |
| URL | api/Friend/GetContractList/{WxId}/{CurrentWxcontactSeq?} |
| 参数 | "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "CurrentWxcontactSeq":1, 分页 默认0 |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 2、获取好友详情

|  |  |
| --- | --- |
| URL | api/Friend/GetContractDetail/{WxId}/{SearchWxId} |
| 参数 | "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "searchWxId":"wxid\_0744rzt31nm122",搜索的微信Id [Required] |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 3、搜索微信用户信息

|  |  |
| --- | --- |
| URL | api/Friend/SearchContract/{WxId}/{SearchWxName} |
| 参数 | "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "SearchWxName":"1234",QQ号 手机号微信号搜索 ，不支持公众号搜索 不支持原始wxid搜索支持 [Required] |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 4、添加好友（好友没有设置验证）

|  |  |
| --- | --- |
| URL | api/Friend/AddFriend |
| 参数 | "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "UserNameV1":"v1\_da88f26403fdd3456fd715cbbc2fd7becb2faf095c558bfed9f350d242b00de5e7ec6553e88750243a25aeaa27b73aa5@stranger",添加微信好友用户V1数据 [Required]  "AntispamTicket":"v2\_2b274389e3e5480f080f740d023db9cffd98783130b8e110bda826c1bd48cf6f96ab50dd3f0c754691b4d238af9a71e3@stranger",添加微信好友用户的票证数据 [Required]  "Origin":15,1来源QQ2来源邮箱3来源微信号14群聊15手机号18附近的人25漂流瓶29摇一摇30二维码13来源通讯录 [Required]  "Content":"111", 内容 [Required] |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 4.1、发起添加好友验证

|  |  |
| --- | --- |
| URL | api/Friend/AddFriendRequest |
| 参数 | "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "UserNameV1":"v1\_da88f26403fdd3456fd715cbbc2fd7becb2faf095c558bfed9f350d242b00de5e7ec6553e88750243a25aeaa27b73aa5@stranger",添加微信好友用户V1数据 [Required]  "AntispamTicket":"v2\_2b274389e3e5480f080f740d023db9cffd98783130b8e110bda826c1bd48cf6f96ab50dd3f0c754691b4d238af9a71e3@stranger",添加微信好友用户的票证数据 [Required]  "Origin":15,1来源QQ2来源邮箱3来源微信号14群聊15手机号18附近的人25漂流瓶29摇一摇30二维码13来源通讯录 [Required]  "Content":"111", 内容 [Required] |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 5、批量申请添加好友请求

|  |  |
| --- | --- |
| URL | api/Friend/AddFriendRequestList |
| 参数 | "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "Origin":15,1来源QQ2来源邮箱3来源微信号14群聊15手机号18附近的人25漂流瓶29摇一摇30二维码13来源通讯录 [Required]  "Content":"111", 内容 [Required]  “Friends”: [{好友列表  "UserNameV1":"v1\_da88f26403fdd3456fd715cbbc2fd7becb2faf095c558bfed9f350d242b00de5e7ec6553e88750243a25aeaa27b73aa5@stranger",添加微信好友用户V1数据 [Required]  "AntispamTicket":"v2\_2b274389e3e5480f080f740d023db9cffd98783130b8e110bda826c1bd48cf6f96ab50dd3f0c754691b4d238af9a71e3@stranger",添加微信好友用户的票证数据 [Required]  }] |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 6、通过好友验证

|  |  |
| --- | --- |
| URL | api/Friend/PassFriendVerify |
| 参数 | "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "UserNameV1":"v1\_da88f26403fdd3456fd715cbbc2fd7becb2faf095c558bfed9f350d242b00de5e7ec6553e88750243a25aeaa27b73aa5@stranger",添加微信好友用户V1数据 [Required]  "AntispamTicket":"v2\_2b274389e3e5480f080f740d023db9cffd98783130b8e110bda826c1bd48cf6f96ab50dd3f0c754691b4d238af9a71e3@stranger",添加微信好友用户的票证数据 [Required]  "Origin":15,1来源QQ2来源邮箱3来源微信号14群聊15手机号18附近的人25漂流瓶29摇一摇30二维码13来源通讯录 [Required]  "Content":"111", 内容 |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 4、拒绝好友验证

|  |  |
| --- | --- |
| URL | api/Friend/RejectFriendVerify |
| 参数 | "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "UserNameV1":"v1\_da88f26403fdd3456fd715cbbc2fd7becb2faf095c558bfed9f350d242b00de5e7ec6553e88750243a25aeaa27b73aa5@stranger",添加微信好友用户V1数据 [Required]  "AntispamTicket":"v2\_2b274389e3e5480f080f740d023db9cffd98783130b8e110bda826c1bd48cf6f96ab50dd3f0c754691b4d238af9a71e3@stranger",添加微信好友用户的票证数据 [Required]  "Origin":15,1来源QQ2来源邮箱3来源微信号14群聊15手机号18附近的人25漂流瓶29摇一摇30二维码13来源通讯录 [Required]  "Content":"111", 内容 |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

## 3发消息

### 1、发送文本消息

|  |  |
| --- | --- |
| URL | api/Message/SendTxtMessage |
| 参数 | {  "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "ToWxId":"wxid\_rccpfloylf7z22",接收的微信ID [Required]  "Content":"1对哇对哇",发送内容 [Required]  } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 2、发送图片消息

|  |  |
| --- | --- |
| URL | api/Message/SendImageMessage **Form表单** |
| 参数 | "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "ToWxId":"wxid\_rccpfloylf7z22",接收的微信ID [Required]  "File": 图片文件流 [Required] |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 3、发送声音消息

|  |  |
| --- | --- |
| URL | api/Message/SendVoiceMessage **Form表单** |
| 参数 | "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "ToWxId":"wxid\_rccpfloylf7z22",接收的微信ID [Required]  "File": 声音文件流 [Required] |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 4、发送视频消息

|  |  |
| --- | --- |
| URL | api/Message/SendVideoMessage**Form表单** |
| 参数 | "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "ToWxId":"wxid\_rccpfloylf7z22",接收的微信ID [Required]  "File": 视频文件流 [Required] |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 5、发送App消息

|  |  |
| --- | --- |
| URL | api/Message/SendAppMessage |
| 参数 | {  "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "toWxId":"wxid\_rccpfloylf7z22",接收的微信ID [Required]  "AppId":"wx873a91b8917c375b",appId  "Title":"标题1111",标题 [Required]  "Desc":"描述12112312",描述 [Required]  "Type":3,app类型 3：音乐 4：大 5：小 [Required]  "Url":"http://www.baidu.com",链接 [Required]  "DataUrl":"http://www.baidu.com?ddd",数据Url  "ThumbUrl":"http://image.baidu.com"图片地址 [Required]    } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 6、发送分享消息

|  |  |
| --- | --- |
| URL | api/Message/SendShareMessage |
| 参数 | {  "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "toWxId":"wxid\_rccpfloylf7z22",接收的微信ID [Required]  "Title":"标题1111",标题 [Required]  "Desc":"描述12112312",描述 [Required]  "Type":3, 3：音乐 4：视频 5：链接 [Required]  "Url":"http://www.baidu.com",链接 [Required]  "DataUrl":"http://www.baidu.com?ddd",数据Url  "ThumbUrl":"http://image.baidu.com"图片地址    } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 7、发送名片消息

|  |  |
| --- | --- |
| URL | /api/Message/SendCardMessage |
| 参数 | {  "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "toWxId":"wxid\_rccpfloylf7z22",接收的微信ID [Required]  "CardWxId":"wxid\_biz34pjar8tk22",卡片微信Id [Required]  "CardNickName":"昵称111",昵称 [Required]  "CardAlias":”别名ddd”, 别名    } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 8、发送位置消息

|  |  |
| --- | --- |
| URL | /api/Message/SendLocationMessage |
| 参数 | {  "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "toWxId":"wxid\_rccpfloylf7z22",接收的微信ID [Required]  "Longitude":"wxid\_biz34pjar8tk22",经度 [Required]  "Latitude":"昵称111",纬度 [Required]  "Name":”别名ddd”, 地址名称 [Required]    } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

## 4朋友圈

### 1、获取特定人的朋友圈

|  |  |
| --- | --- |
| URL | api/FriendCircle/GetFriendCircleDetail |
| 参数 | {  "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "ToWxId":"wxid\_rccpfloylf7z22",接收的微信ID [Required]  } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 2、获取自己的朋友圈列表

|  |  |
| --- | --- |
| URL | api/FriendCircle/GetFriendCircleList |
| 参数 | {  "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "FristPageMd5":"11231",分页Md5 } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 3、操作朋友圈 1删除朋友圈2设为隐私3设为公开4删除评论5取消点赞

|  |  |
| --- | --- |
| URL | api/FriendCircle/SetFriendCircle |
| 参数 | {  "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "Id":121323131323,朋友圈Id [Required]  "Type":1朋友圈类型 1删除朋友圈2设为隐私3设为公开4删除评论5取消点赞 [Required]  } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 4、发送朋友圈

|  |  |
| --- | --- |
| URL | api/FriendCircle/SendFriendCircle |
| 参数 | {  "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "Type":1, 类型0:文字 1：图片 2视频 3：链接  "Title":"222",标题  "Content":"111",内容  "ContentUrl":"ccccc",内容的链接  "Description":"描述1111",描述  "MediaInfos":[{  "Url":"http://baidu.com"，数据链接  "ImageUrl":"http://baidu.com"，图片链接  "Width":300，高度  "Height":300，宽度  "TotalSize":300，大小  },{  "Url":"http://baidu.com"，数据链接  "ImageUrl":"http://baidu.com"，图片链接  "Width":"http://baidu.com"，高度  "Height":"http://baidu.com"，宽度  "TotalSize":"http://baidu.com"，大小  }],media列表  "BlackList":["wxid\_0744rzt31nm122","wxid\_0744rzt31nm122"],不让看微信Id 列表  "WithUserList":["wxid\_0744rzt31nm122","wxid\_0744rzt31nm122"],标记微信Id 列表  } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 5、同步朋友圈

|  |  |
| --- | --- |
| URL | api/FriendCircle/SyncFriendCircle/{wxId} |
| 参数 | {  "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 6、上传朋友圈图片

|  |  |
| --- | --- |
| URL | api/FriendCircle/SendFriendCircleImage **Form表单** |
| 参数 | {  "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  File列表 [Required]  } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 6、朋友圈点赞发评论

|  |  |
| --- | --- |
| URL | api/FriendCircle/SendFriendCircleComment/ |
| 参数 | {  "wxid":"wxid\_xqyjnvihzqyn12", [Required]  "Id":13027931493805142128, 朋友圈Id[Required]  "Content": "测试评论111",内容  "Type":1, 类型 1点赞 2：文本[Required]  "ReplyCommnetId":0回复评论Id    } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

## 5公共

### 1、获取高清图片

|  |  |
| --- | --- |
| URL | api/Common/GetBigImage |
| 参数 | {  "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "ToWxId":"wxid\_rccpfloylf7z22",接收的微信ID [Required]  "MsgId":"1对哇对哇",消息Id [Required]  "LongDataLength":"1对哇对哇",图片字节流长度 [Required]  } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 2、获取附近的人

|  |  |
| --- | --- |
| URL | api/Common/GetPeopleNearby |
| 参数 | {  "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "Longitude":111.1111,经度 [Required]  "Latitude":222.222,纬度 [Required]    } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 3、获取摇一摇

|  |  |
| --- | --- |
| URL | api/Common/GetSharkItOff |
| 参数 | {  "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "Longitude":111.1111,经度 [Required]  "Latitude":222.222,纬度 [Required]    } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 4、绑定邮箱

|  |  |
| --- | --- |
| URL | api/Common/BindEmail |
| 参数 | {  "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "Email":”sssssss@qq.com”,邮箱 [Required]    } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 5、同步微信消息

|  |  |
| --- | --- |
| URL | api/Common/SyncMessage/{wxId} |
| 参数 | {  "wxid":"wxid\_0744rzt31nm122",微信Id [Required]    } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 6、关注公众号

|  |  |
| --- | --- |
| URL | api/Common/ForkOfficialAccountsMessage |
| 参数 | {  "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "AppId":"wxid\_0744rzt31nm122",公众号AppId [Required]  } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 7、修改密码

|  |  |
| --- | --- |
| URL | api/Common/ChangePassword |
| 参数 | {  "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "NewPassword":"xxxxxx",新密码 [Required]  "Ticket":"xxxxxx",票据 [Required]  } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 8、上传联系人

|  |  |
| --- | --- |
| URL | api/Common/UploadContrats |
| 参数 | {  "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "CurrentPhoneNo":"xxxxxx",当前手机号码  "PhoneNos":["xxxxxx","xxxxxx","xxxxxx"]上传的手机号码 [Required]  } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

## 6标签

### 1、获取标签列表

|  |  |
| --- | --- |
| URL | api/Label/GetLableList/{wxId} |
| 参数 | {  "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 2、新增标签

|  |  |
| --- | --- |
| URL | api/Label/AddLabelName |
| 参数 | {  "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "LabelName":"tongshi",标签名称 [Required]  } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 3、修改标签

|  |  |
| --- | --- |
| URL | api/Label/UpdateLabelName |
| 参数 | {  "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "ToWxId":"wxid\_0744rzt31nm122",设置微信Id [Required]  "LabelIDList":"1111",标签Id列表 [Required]  } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 4、删除标签

|  |  |
| --- | --- |
| URL | api/Label/DeleteLabelName |
| 参数 | {  "wxid":"wxid\_0744rzt31nm122",微信Id [Required]  "LabelIDList":"1111",标签Id列表 [Required]  } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

## 7群

### 1、创建群

|  |  |
| --- | --- |
| URL | api/Group/CreateGroup |
| 参数 | {  "wxid":"wxid\_xqyjnvihzqyn12",微信Id  "GroupName":"测试群消11息",群名称  "ToWxIds":[ 群成员  "wxid\_k4uv94kg7dpg22",  "wxid\_zi6jkyw8l2s822",  "wxid\_pk9nrbljh52f22",  "wxid\_53gtni119hat22"]  } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 2、添加群成员

|  |  |
| --- | --- |
| URL | api/Group/AddGroupMember |
| 参数 | {  "wxid":"wxid\_xqyjnvihzqyn12",微信Id  "ChatRoomName":"9391237985@chatroom",群ChatRoomName  "ToWxIds":[ 群成员  "wxid\_k4uv94kg7dpg22",  "wxid\_zi6jkyw8l2s822",  "wxid\_pk9nrbljh52f22",  "wxid\_53gtni119hat22"]  } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 3、删除群成员

|  |  |
| --- | --- |
| URL | api/Group/DeleteGroupMember |
| 参数 | {  "wxid":"wxid\_xqyjnvihzqyn12",微信Id  "ChatRoomName":"9391237985@chatroom",群ChatRoomName  "ToWxIds":[ 群成员  "wxid\_k4uv94kg7dpg22",  "wxid\_zi6jkyw8l2s822",  "wxid\_pk9nrbljh52f22",  "wxid\_53gtni119hat22"]  } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 4、获取群成员信息

|  |  |
| --- | --- |
| URL | api/Group/GetGroupMembers |
| 参数 | {  "wxid":"wxid\_xqyjnvihzqyn12",微信Id  "ChatRoomName":"9391237985@chatroom",群ChatRoomName    } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 5、修改群公告

|  |  |
| --- | --- |
| URL | api/Group/UpdateGroupAnnouncement |
| 参数 | {  "wxid":"wxid\_xqyjnvihzqyn12",微信Id  "ChatRoomName":"9391237985@chatroom",群ChatRoomName  "Announcement":"ssss",公告  } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

## 8支付

### 1.获取银行卡信息

|  |  |
| --- | --- |
| URL | api/Pay/GetBandCardList/{wxId} |
| 参数 | {  "wxid":"wxid\_xqyjnvihzqyn12",微信Id [Required]    } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 2.创建转账

|  |  |
| --- | --- |
| URL | api/Pay/CreatePreTransfer |
| 参数 | {  "wxid":"wxid\_xqyjnvihzqyn12",微信Id [Required]  "ToWxId":"wxid\_xqyjnvihzqyn12"到账微信Id [Required]  "Money":1,金额 [Required]  "Name":"xxxxx",转账名称  } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 3.确认转账

|  |  |
| --- | --- |
| URL | api/Pay/ConfirmTransfer |
| 参数 | {  "wxid":"wxid\_xqyjnvihzqyn12",微信Id [Required]  "BankType":"ICBC\_DEBIT",银行类型 [Required]  "BindSerial":"11111111111",绑定卡号的Id [Required]  "ReqKey":"xxxxxxxx",请求的Key [Required]  "PayPassword":"xxxxxxxx",支付密码,加密 [Required]  } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |

### 4.生成自定义转账二维码

|  |  |
| --- | --- |
| URL | api/Pay/GeneratePayQCode |
| 参数 | {  "wxid":"wxid\_xqyjnvihzqyn12",微信Id  "Name":"xxxx",描述  "Money":1,金额  } |
| 结果 | {  "IsSucess": true,  "Code": "0",  "Message": "成功"  } |