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Coding Gracefully

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- Coding Gracefully
- Code Analysis
- Q&A

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- code for communication
- make it work, keep it simple
- single entrance, single export
- least privilege principle
- similar adjacent principle

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- code for communication

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- 命名，代码自解释
- 分层，鸡蛋不要放在一个篮子里
- 注释，让读者和作者了解的一样多

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- make it work, keep it simple

- 用正确的工具解决问题（编程范式）
- 复杂度控制（高内聚、低耦合、单一职责、最小权限、依赖倒置）

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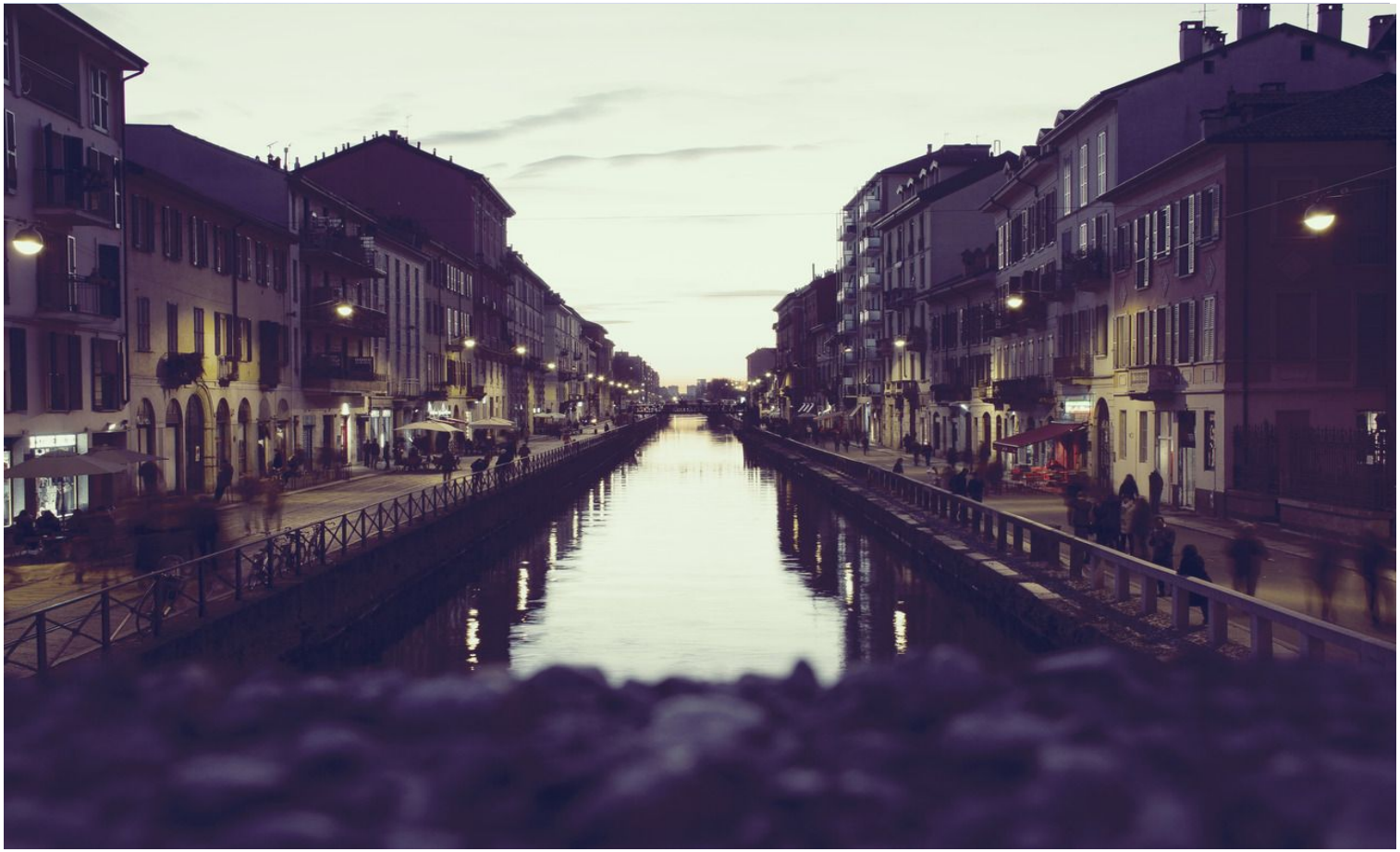
- single entrance, single export



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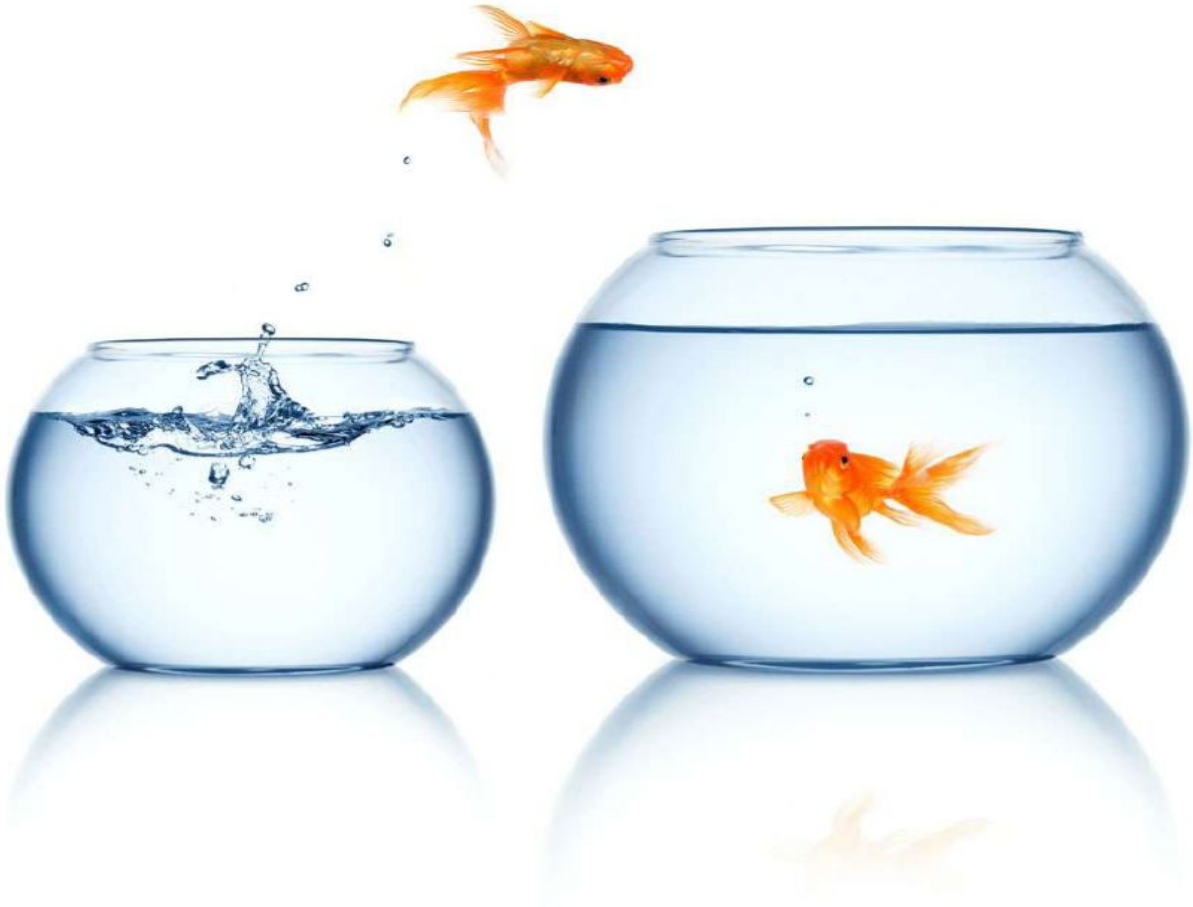
- least privilege principle



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- similar adjacent principle

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Aimed to be

- Easy to **read**
- Easy to **write**
- Easy to **debug**

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Code Analysis

```php
<?php
/**
 * [redacted]
 * @package    pl
 * @copyright  copyright(2013) weibo.com all rights reserved
 * @author     [redacted]
 * @since      [redacted]
 */
class Pl_Groupmsg_Main extends Pl_Abstract
{
    private $_tip = '';
    private $_gmsgType = '';
    private $_sendUnit = '';
    private $_leftSendNum = -1;
    private $_cycleLimitInfo = array();
    private $_pushCountInfo = array();

    public function prepareData()
    {...}

    /**...
    private function _getData()
    {...}

    private function _getSubscribleNum()
    {...}
```

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```
17
    public function prepareData()
19  {...}
34
35  /**...
38  private function _getData()
39  {...}
61
62  private function _getSubscribleNum()
63  {...}
67
68  private function _getSendUnit()
69  {...}
77
78  private function _getLeftSendNum()
79  {...}
90
91  /**...
95  private function _getGmsgType()
96  {...}
110
111 /**...
115 private function _getGmsgData()
116 {...}
135
```

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- 最小权限原则，凡对类属性的写操作的均封装为private方法
- 函数依赖倒置，越重要的函数或方法越靠前
- 零参数函数

Code Analysis

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```php
111     /**
112      * 获取私信确认页面点击“上一步”操作时前端传递的私信数据
113      * @return array
114      */
115     private function _getGmsgData()
116     {
117         $type = $this->_getGmsgType();
118         switch ($type)
119         {
120             case 'image' :
121                 return $this->_getImageData();
122                 break;
123             case 'articles' :
124                 return $this->_getArticleData();
125                 break;
126             case 'voice' :
127                 return $this->_getVoiceData();
128                 break;
129             case 'text' :
130             default :
131                 return $this->_getTextData();
132                 break;
133         }
134     }
```

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- 分层实现，降低业务实现的复杂度

Code Analysis

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```
35  /**...
38  private function _getData()
39  {
40      $data = array(
41          'total_num' => $this->_getSubscribleNum(), //订阅人数
42          'send_unit' => $this->_getSendUnit(), //发送周期
43          'send_num' => $this->_getLeftSendNum(), //剩余发送次数
44          'type' => $this->_getGmsgType(), //群发私信类型
45          'data' => rawurlencode(trim(Comm_Context::request('data'))), //群发私信数据 for commit
46          'init_data' => $this->_getGmsgData(), //群发私信数据 for display
47          'target_list' => $this->_getTargetList(),
48          'target' => $this->_getTarget(), //群发对象
49          'gender' => $this->_getGender(),
50          'area' => $this->_getArea(),
51          'btn_data' => $this->_getBtnData(),
52          'bottom_tip' => $this->_tip,
53          'unauth_tip' => $this->_getUnAuthTip(),
54          'is_spl' => Tool_Common::viewerId() == Comm_Config::get('common.uid_sinapapers'),
55          'group_list'    => $this->_getCustomGroupList(),   // 自定义分组列表
56          'rule_list'     => $this->_getRuleGroupList(),     // 规则名分组列表
57          'group_rule_id'   => $this->_getGroupOrRuleId(),   // 获取确认页面返回上一步传过来的自定义分组或规则名分
58      );
59      return $data;
60  }
```

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- 顶层方法力求简单呈现业务主线
- 每个key对应一个私有方法
- 物以类聚，相似数据、相似操作，地理位置相邻

- PHP进程缓存变量，防止Api接口重复调用

```
92      private function _getLeftSendNum()
93      {
94          if ($this->_leftSendNum == -1)
95          {
96              $cycleInfo = $this->_getCycleLimitInfo();
97              $pushCountInfo = $this->_getPushCountInfo(intval($cycleInfo['unit'])); // 获取上一篇的发送状态以及周期
98
99              $num = intval($cycleInfo['amount']) - intval($pushCountInfo['data']['count']);
100             $this->_leftSendNum = $num > 0 ? $num : 0;
101         }
102         return $this->_leftSendNum;
103     }
```

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Q&A

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Please Ask Questions!

(don't be shy...)

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