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Workshop Minecraft 服务端插件开发

叶子 (Alan Richard) - August 19, 2021 Session 3

Session 3: 常用 API

```
复习: Primitive 类型

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复习: Primitive 类型

Int b() { return 0; }

double c() { return 0.1; }

float d() { return 0.1f; }

boolean e() { return true; }

char f() { return 'a'; }
```

复习: Non-Primitive 类型 Integer bP() { return 0; } Double cP() { return 0.1; } Float dP() { return 0.1f; } Boolean eP() { return true; } Character fP() { return 'a'; }

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复习: 硬编码 Hard-coded

- ■数值/设置被写死在代码中的编码方式
- ■例如
 - 规定超过 5 个人在线就关服
 - if (players.size() > 5) { < .. shutdown the server .. > }
 - ■插件消息
 - sendMessage("Hello")
- ■缺乏可维护性,想修改的时候要重新编译

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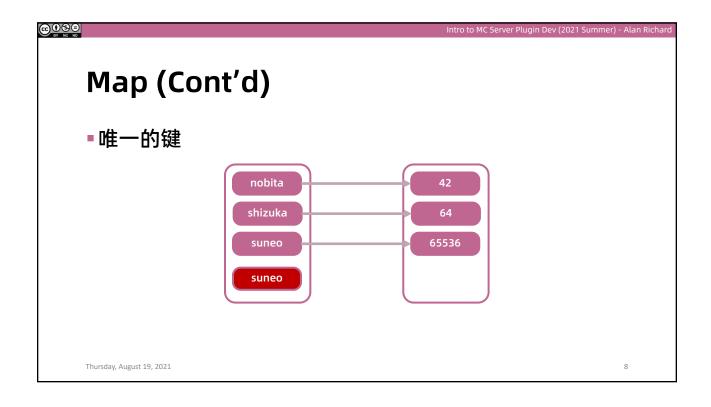
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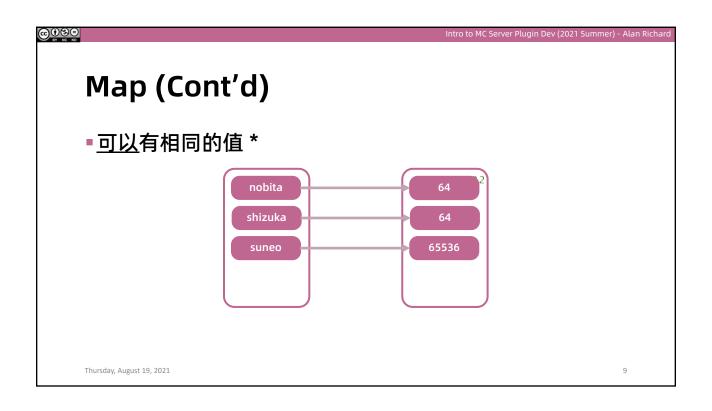
设想一个银行插件

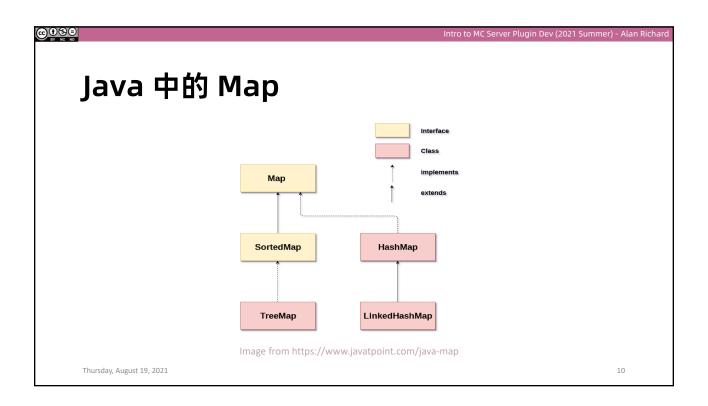


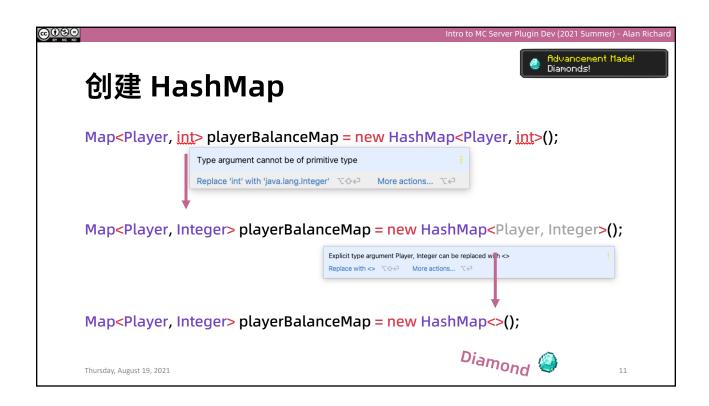
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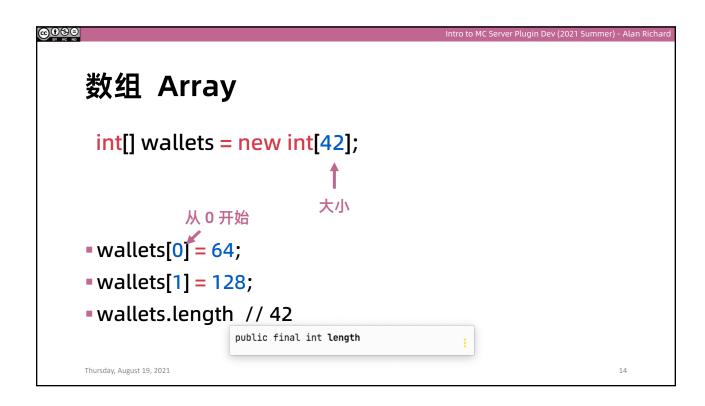


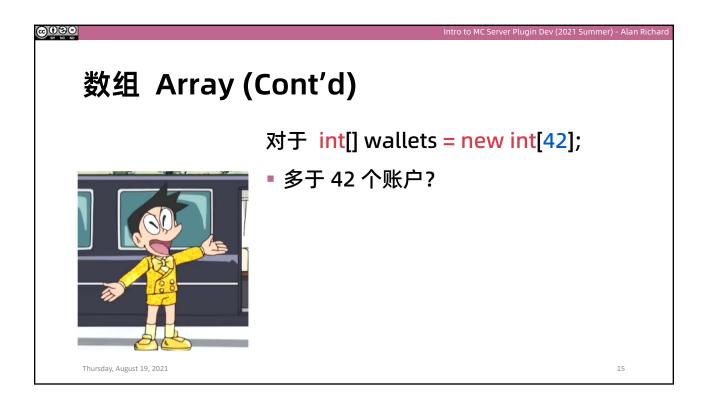












List List<Integer> walletList = new ArrayList<>(); Thursday, August 19, 2021

```
ArrayList 常用操作

"对于 List<Integer> walletList

"walletList.add(8);
 walletList.add(16);

"walletList.get(0); // 8
 walletList.get(1); // 16

"walletList.size(); // 2
```

前置知识

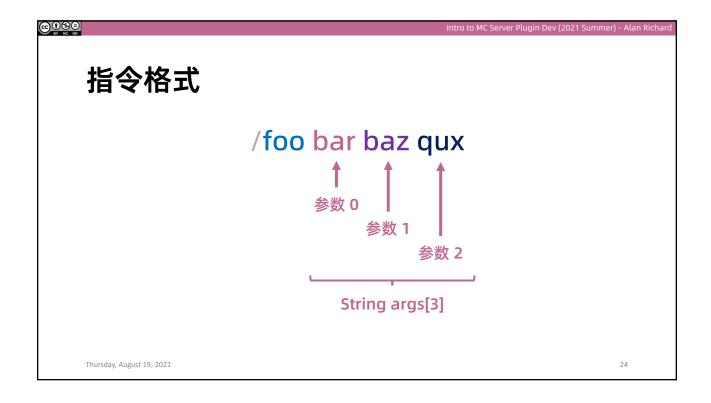
能力 thursday, August 19, 2021

YAML /ˈjæməl/ - 一种人类可读的数据序列化语言 - 缩进! - 服务端内建 API 支持









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插件实现指令处理

- ■两部分
 - 命令执行 → Executor
 - TAB 补全 → Tab Completer

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复习: If Statement

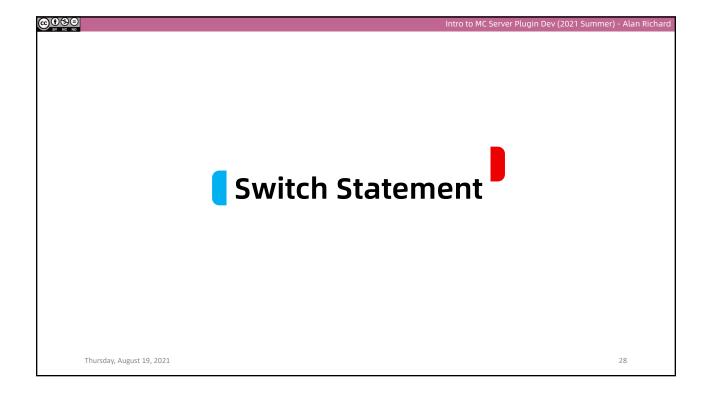
■形如

```
if (event.getMessage().contains("vfrg2J(*!#%9u0g")) {
    event.getPlayer().kickPlayer("禁止脏话");
} else {
    event.getPlayer().giveExp(1);
}
```

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```
if (event.getMessage().equals("支持")) {
  vote++;
  player.sendMessage("已投票 +1");
  } else if (event.getMessage().equals("反对")) {
  vote--;
  player.sendMessage("已投票 -1");
  } else if (event.getMessage().equals("弃权")) {
  player.sendMessage("已投票 -1");
  } else if (event.getMessage().equals("弃权")) {
  player.sendMessage("已弃权");
  } else {
  player.sendMessage("请发送: 支持 / 反对 / 弃权");
  }
```



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Java Docs 💥

- https://hub.spigotmc.org/javadocs/bukkit/
- https://papermc.io/javadocs/paper/1.17/

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