



链滴

大学写的一个 Java Web 框架

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前言

大学刚毕业，专业是电子信息工程。大一开始学Java，准确的说是高三最后的几周开始的。果然兴趣最好的老师，在大一下学期自己从前端到后台写了我的个人网站：<https://taketoday.cn> ODAY BLOG。从注册域名到备案再到网站成功上线，我遇到过的困难不计其数。因为感兴趣所以我坚持了下来。第一个版本使用的纯Servlet写的。后来了解到Java有很多开源框架可以简化我的开发。于是又投入到新一轮的学习之中..... 学了Struts2后自己学着写了一个小框架：https://github.com/I-TAKE-TODAY/today_web/tree/v1.1.1 TODAY WEB，几百行搞定从解析xml定义action到处理对应的请求。学了Spring MVC后，我写了此项目：<https://github.com/TAKETODAY/today-web> TODAY WEB 2.0。

简介

today web是一个基于Servlet的高性能轻量级Web框架。

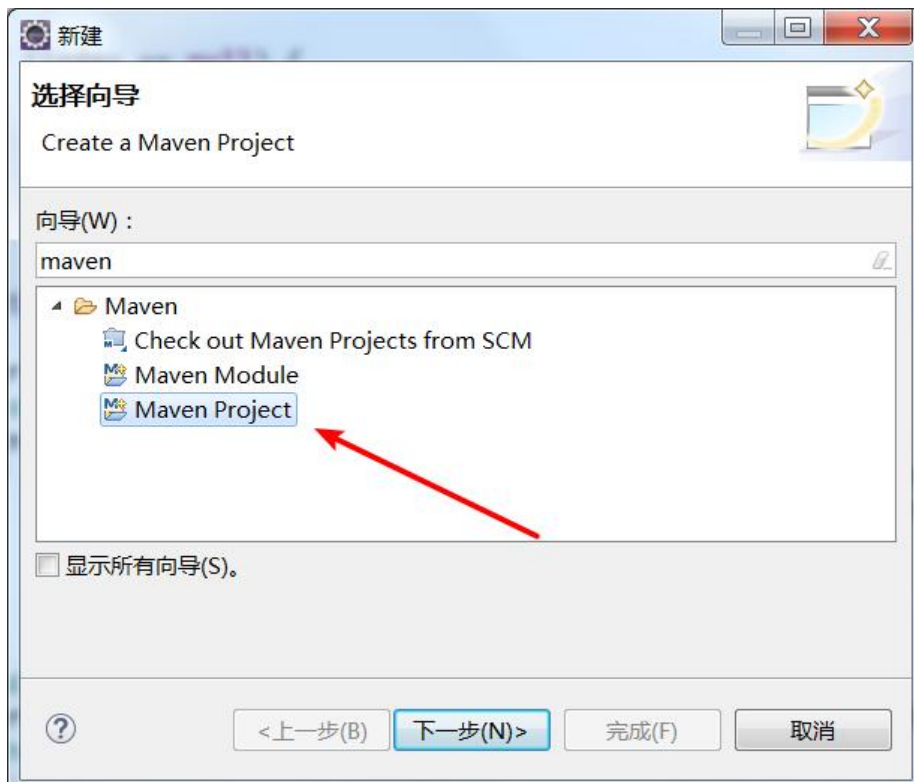
<https://github.com/TAKETODAY/today-web>

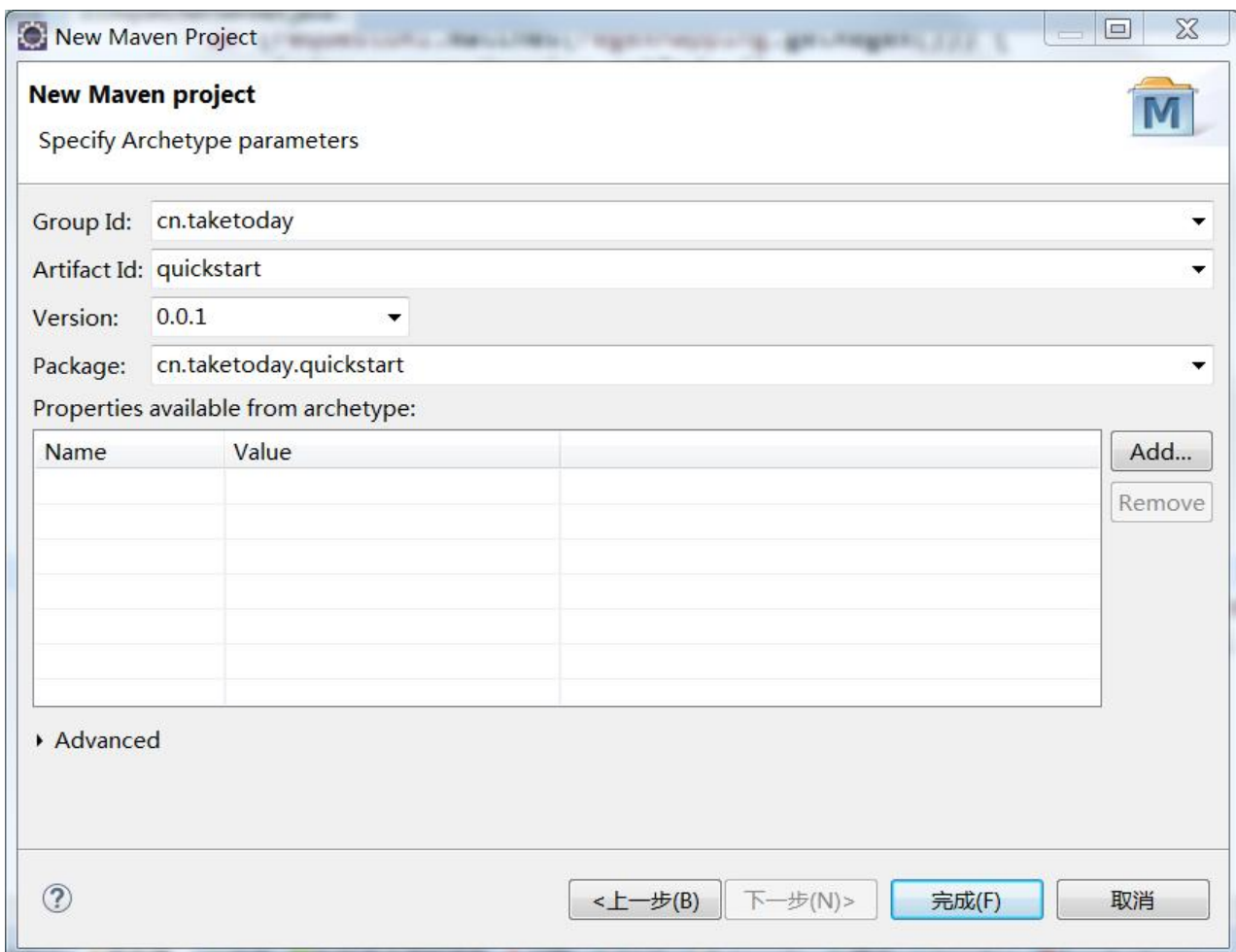
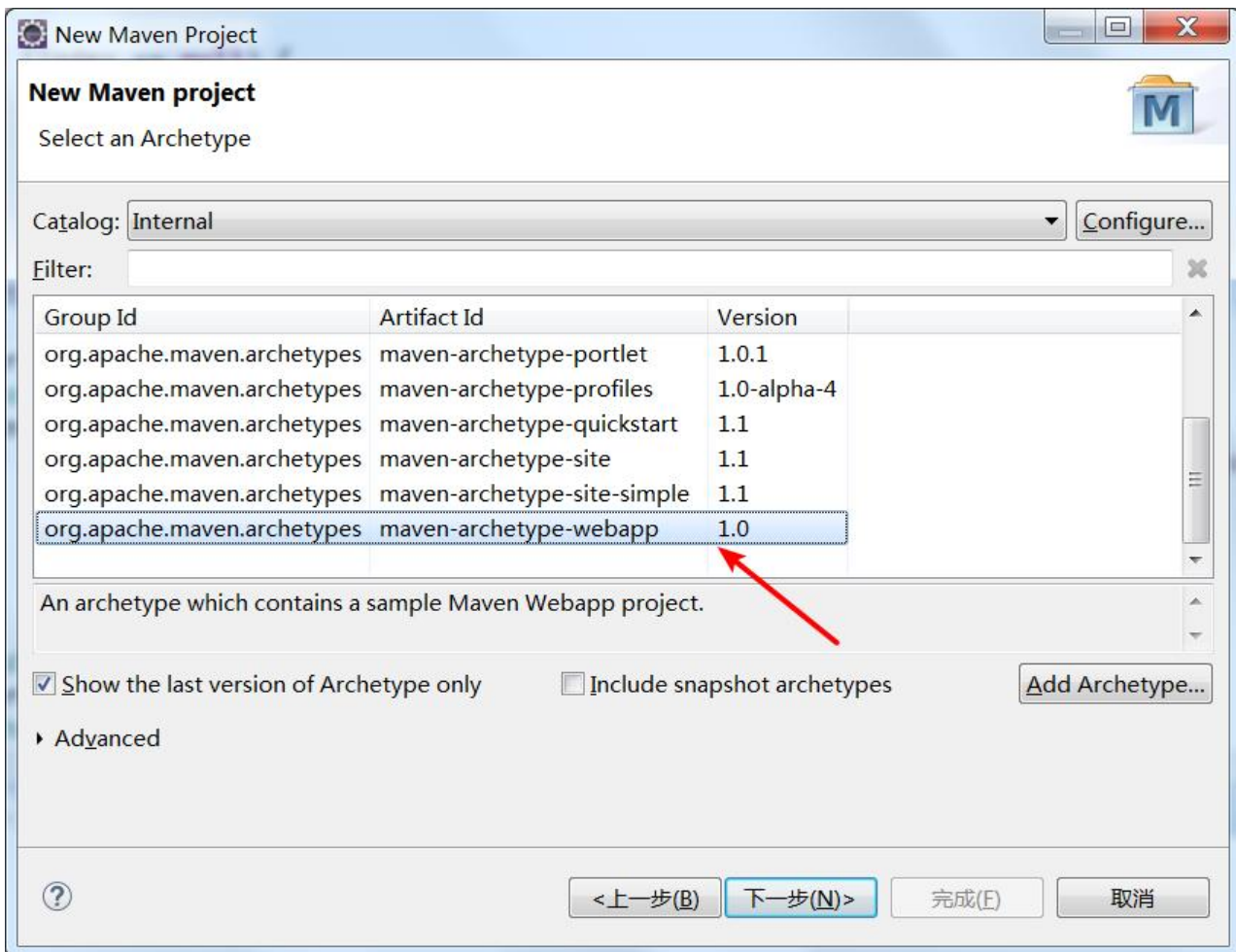
安装

```
<dependency>  
  <groupId>cn.taketoday</groupId>  
  <artifactId>today-web</artifactId>  
  <version>2.3.6.RELEASE</version>  
</dependency>
```

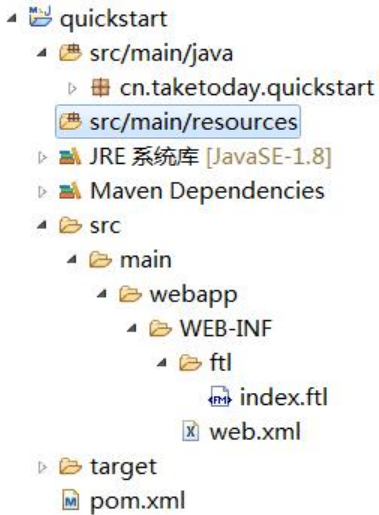
快速入门

第一步：新建项目





项目结构



第二步：引入依赖

```
<dependency>
  <groupId>cn.taketoday</groupId>
  <artifactId>today-web</artifactId>
  <version>2.3.6.RELEASE</version>
</dependency>
```

```
<dependency>
  <groupId>cn.taketoday</groupId>
  <artifactId>today-context</artifactId>
  <version>2.1.5.RELEASE</version>
</dependency>
```

```
<dependency>
  <groupId>org.freemarker</groupId>
  <artifactId>freemarker</artifactId>
  <version>2.3.28</version>
</dependency>
```

到此项目建立完毕，并不需要去管 **web.xml** 文件

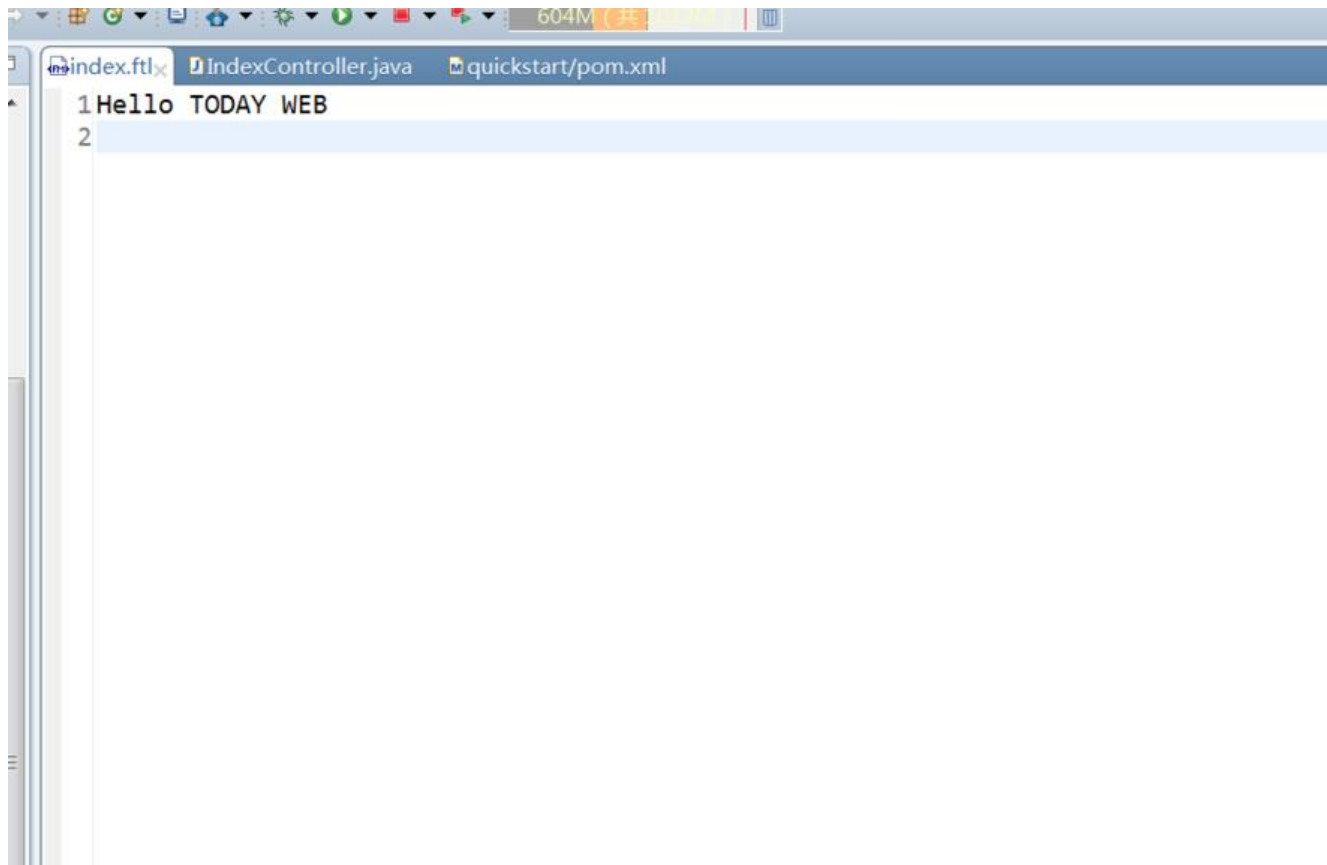
第三步：配置控制器

```
/**
 * @author Today <br>
 *      2018-12-02 22:30
 */
@RestController
@RequestMapping("index")
public class IndexController {

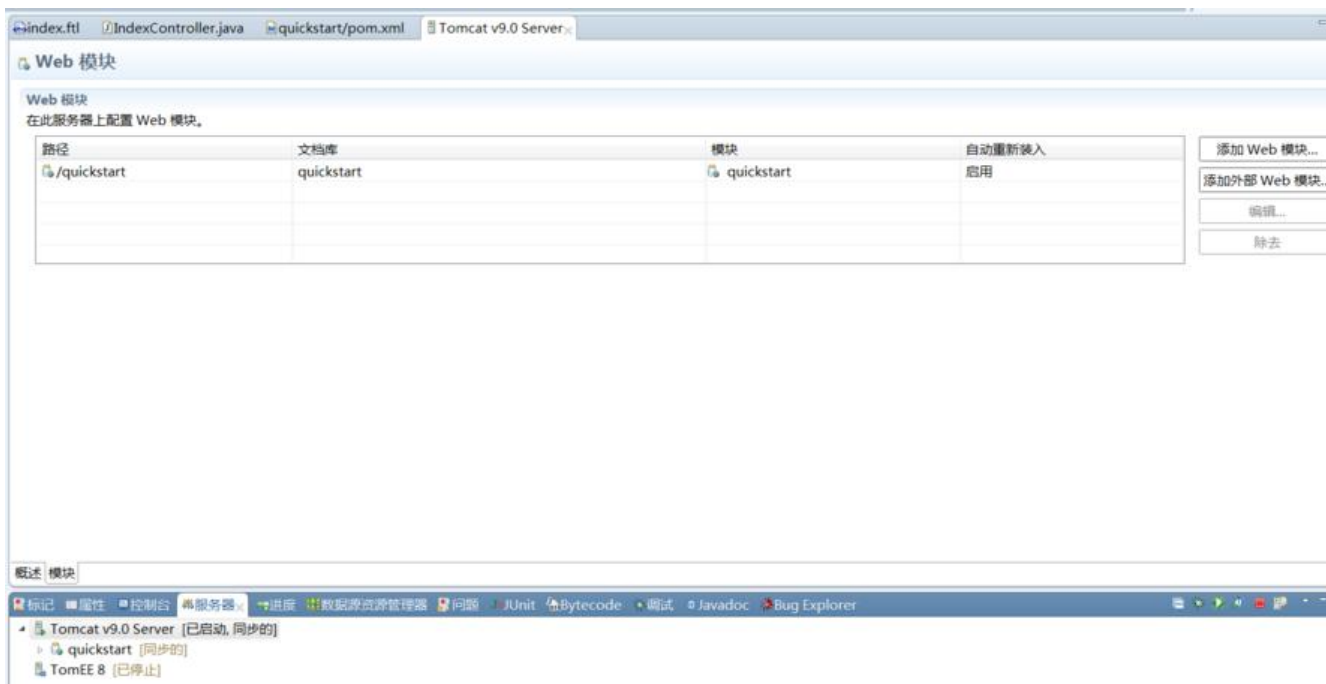
    @GET("{key}")
    public String index(@PathVariable int key) {
        return key + "";
    }
}
```

```
@GET
@ResponseBody(false)
public String index() {
    return "index";
}
}
```

Freemarker模板



第四步：部署项目到Tomcat



查看效果

@GET("{key}")



@GET



案例

- [DEMO](#)

使用说明

通过 @Controller @RestController 配置控制器

```
//@Controller
@RestController
@RequestMapping("/users")
public class UserController {

}
```

配置请求

```
@GET("index")
@POST("post")
@PUT("articles/{id}")
.....
@RequestMapping("/users/{id}")
@RequestMapping(value = "/users/**", method = {RequestMethod.GET})
@RequestMapping(value = "/users/*.html", method = {RequestMethod.GET})
@RequestMapping(value = {"/index.action", "/index.do", "/index"}, method = RequestMethod.GET)
@Interceptor({LoginInterceptor.class, ...})
public (String|List<?>|Set<?>|Map<?>|void|File|Image|...) \\w+ (request, request, session, servl
tContext, str, int, long , byte, short, boolean, @Session("loginUser"), @Header("User-Agent"),
@Cookie("JSESSIONID"), @PathVariable("id"), @RequestBody("users"), @Multipart("uploadFil
s") MultipartFile[]) {
    service...
    return </>;
}
```

自定义参数转换器

```
@Singleton
public class DateConverter implements Converter<String, Date> {
    @Override
    public Date convert(String source) throws ConversionException {
        ...
    }
}
```

也可以通过xml文件配置简单视图，静态资源，自定义视图解析器，文件上传解析器，异常处理器，数解析器

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE Web-Configuration PUBLIC
    "-//TODAY BLOG//Web - Configuration DTD 2.0//CN"
    "https://taketoday.cn/framework/web/dtd/web-configuration-2.3.3.dtd">

<Web-Configuration>

    <controller prefix="/error/">
        <action resource="400" name="BadRequest" status="400" />
        <action resource="403" name="Forbidden" status="403" />
        <action resource="404" name="NotFound" status="404" />
        <action resource="500" name="ServerIsBusy" status="500" />
        <action resource="405" name="MethodNotAllowed" status="405" />
    
```

```

</controller>

<controller>
  <action resource="redirect:http://pipe.b3log.org/blogs/Today" name="today-blog-pipe"
/>
  <action resource="redirect:https://taketoday.cn" name="today" />
  <action resource="redirect:https://github.com" name="github" />
  <action resource="redirect:/login" name="login.do" />
</controller>

<controller class="cn.taketoday.web.demo.controller.XMLController" name="xmlController
prefix="/xml/">
  <action name="obj" method="obj" />
  <action name="test" resource="test" method="test"/>
</controller>

</Web-Configuration>

```

登录实例

```

@Controller
public class UserController {

/*
  <controller prefix="/WEB-INF/view/" suffix=".ftl">
    <action resource="login" name="login" />
    <action resource="register" name="register" />
  </controller> */

  // @GET("login")
  @RequestMapping(value = "/login" , method = RequestMethod.GET)
  public String login() {
    return "/login/login";//支持jsp,FreeMarker,Thymeleaf,自定义视图
  }

  // @POST("login")
  @ResponseBody
  @RequestMapping(value = "/login" , method = RequestMethod.POST)
  public String login(@RequestParam(required = true) String userId, @RequestParam(requir
d = true) String passwd) {
    // service...
    if(userId.equals(passwd)) {
      return "{\"msg\":\"登录成功\"}";
    }
    return "{\"msg\":\"登录失败\"}";//支持pojo转json
  }
}

```

文件下载，支持直接返回给浏览器图片

```

@RequestMapping(value = {"/download"}, method = RequestMethod.GET)
public File download(String path) {
  return new File(path);
}

```



```

@GET("/display")
public final BufferedImage display(HttpServletRequest response) throws IOException {
    response.setContentType("image/jpeg");
    return ImageIO.read(new File("D:/taketoday.cn/webapps/upload/logo.png"));
}

@GET("captcha")
public final BufferedImage captcha(HttpServletRequest request) throws IOException {
    BufferedImage image = new BufferedImage(IMG_WIDTH, IMG_HEIGHT, BufferedImage.TYPE_
_INT_RGB);
    Graphics graphics = image.getGraphics();
    graphics.setColor(Color.WHITE);
    graphics.fillRect(0, 0, IMG_WIDTH, IMG_HEIGHT);
    Graphics2D graphics2d = (Graphics2D) graphics;
    drawRandomNum(graphics2d, request);
    return image;
}

```

文件上传，支持多文件

```

@RequestMapping(value = { "/upload" }, method = RequestMethod.POST)
public final String upload(@Multipart MultipartFile uploadFile) throws IOException {

    String upload = "D:/www.yhj.com/webapps/upload/";
    String path = upload + uploadFile.getFileName();
    File file = new File(path);
    uploadFile.save(file);

    return "/upload/" + uploadFile.getFileName();
}

@PostMapping("/{"/upload/multi"})
public final String multiUpload(HttpServletRequest response, @Multipart MultipartFile[] files
throws IOException {

    String upload = "D:/www.yhj.com/webapps/upload/";

    for (MultipartFile multipartFile : files) {
        String path = upload + multipartFile.getFileName();
        File file = new File(path);
        System.out.println(path);
        if (!multipartFile.save(file)) {
            return "<script>alert('upload error !')</script>";
            //response.getWriter().print("<script>alert('upload error !')</script>");
        }
    }
    //response.getWriter().print("<script>alert('upload success !')</script>");
    return "<script>alert('upload success !')</script>";
}

```

最后

自己非常喜欢编程，觉得写代码很有意思。

我觉得检验一项技术是否掌握就看是否能写一个出来。

GitHub

<https://github.com/TAKETODAY/today-web>

疯狂暗示 0yum

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