Take Control. Write The Plugin
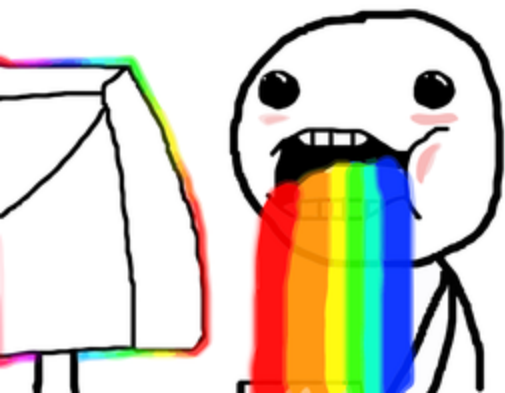
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www.jfrog.com

Jenkins thrives on plugins

- 600+ and growing

- From cluster management to comic relief

There's a plugin for anything

Need someone "taken care of" ?
There's a plugin for that!

thekingarthur.deviantart.com

So why do we need another one?

It's mostly about needs

- Language support

- Tools

- Environment

- Fantastic communities need contributors

Your build may vary

- Some setups can be very unique

- Some issues may be solved by modifying the cycle

- Some issues may be solved with tools or infrastructure

Don't overstep the line

Jenkins should make life easier:

- Prepare the environment
- Monitor and interface with tools
- Automate processes
- Show you ridiculous pictures of 1970's Chuck Norris

It's complimentary, not a replacement

What can I extend?

- UI
- SCM
- Build Processes
- Slave management
- Tooling
... Many, many, more

You can even create new extension points!

Tools we'll need

- ## IDE - I use IntelliJ IDEA:
  Because it kicks ass and can totally pwn 100 wolverines in a fist fight

- ## Build tool - Maven:
  Because... well, it's there

Setting up the environment

- Create a plugin template:

```
mvn -cpi hpi:create
```

- Generate IntelliJ Project:

```
mvn idea:idea
```

Don't forget to configure Maven repositories with access to these plugins

Basic project structure

- `pom.xml` (descriptor)

- `src/main`

  - `java` (plugin classes)

  - `resources` (UI files)

  - `webapp` (static resources)

`pom.xml`

Define:

- Project ID

- Dependencies

- Maven plugins

- Build process customizations

`src/main/java`

- Main plugin class (optional)

- Extensions
  (`@Extension` & inheritance)

- Models

- Other logic

`src/main/resources`

Jelly and Groovy files:

- Independent views

- Extended views

Property files:

- i18n

Running and Packaging

- Run Jenkins on-the-fly:

```
mvn hpi:run
```

- Create HPI file
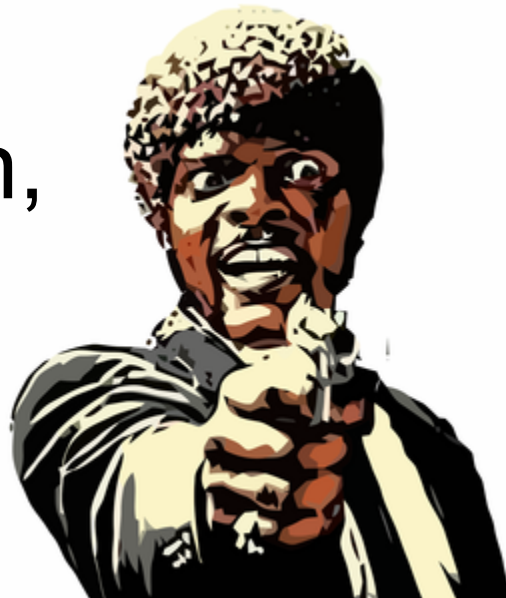
```
mvn package
```

Demo Time! (yay)

Objective: "Motivation" plugin

Mocks you for breaking the build

Break it again,   I dare you!

Live code demo and further in-depth explanations in regard to the methods and environment will take place here
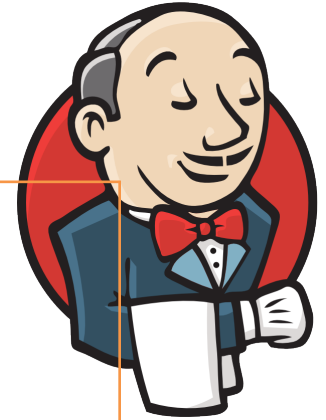
Thank you!

Questions?
(not concerning cheezburgers)

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