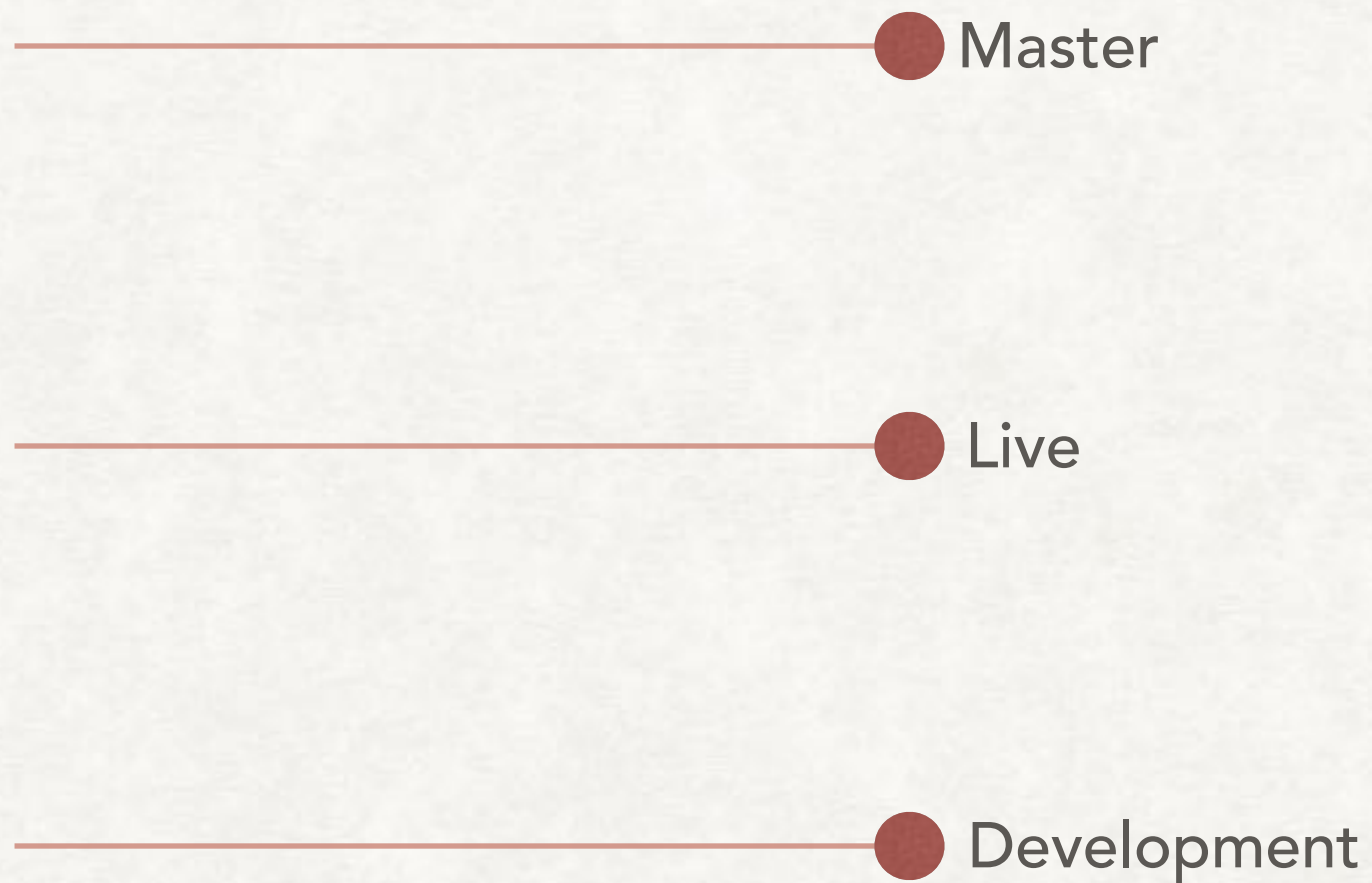# VERSION CONTROL AND DEPLOYMENT WITH GIT

# ENVIRONMENT

- 100 Websites, almost exclusively Magento ecommerce

- About 5-6 developers scattered around the world

- 2 QA personnel

- Lead Developer and Customer Relations

- 2 deployment specialists

- No main office that I know of. All communication over chat

# THREE PERMANENT BRANCHES
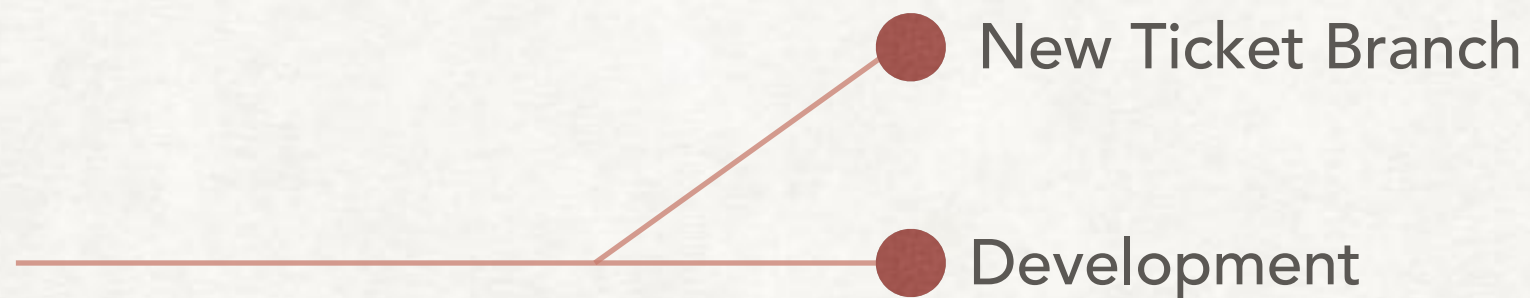
Master

Live

Development

# PRODUCTION SITES TRACK LIVE BRANCH

- Cron jobs on the production server

  - Commit and push local changes

  - Generate an encrypted copy of the production database

# When a new ticket is created in the Jira ticketing system, a new branch is automatically created off Development

● New Ticket Branch

● Development

This triggers the creation of a QA deployment of the site, using code from the new ticket branch, on a QA server. Whenever a commit is made to the New Ticket Branch, the QA deployment automatically rebuilds.

# When changes are complete, the developer creates a pull request to merge the ticket branch into development

New Ticket Branch
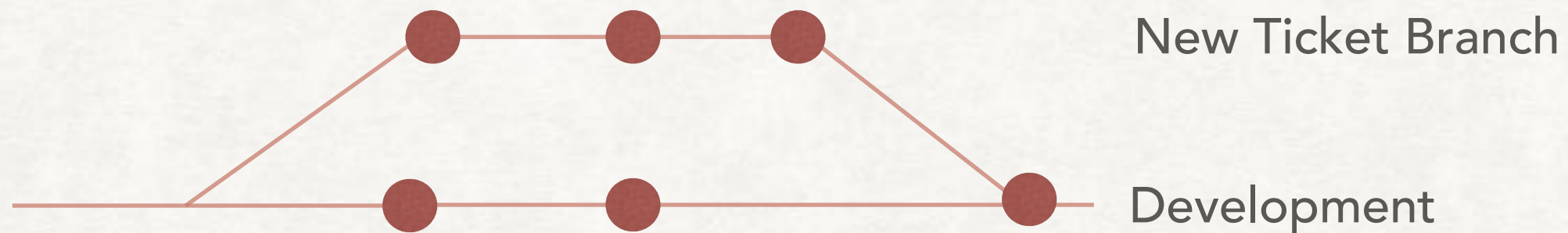
Development

After QA tests and passes the ticket on the QA server, the ticket can be deployed to production

# DEPLOYMENT



New Ticket Branch

Development

Live

Master

1. Merge Live to Development

2. Merge Ticket Branch to Development

3. Merge Development to Live

4. Merge Development to Master

5. Git pull on production

# I LIED…

- DBSYNC Branch

- When a new encrypted database is added to live branch, a script runs that scrubs out customer data and order history information and writes the database dump for developers to use

- This keeps the development database up to date with changes made on production