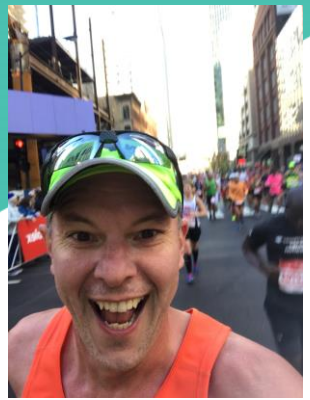
Magento Live
UK | 2017

Magento 2 Migration Best Practices

© 2017 Magento, Inc.



Brent Peterson

Magento Evangelist for Wagento Creative

© 2017 Magento, Inc.

Agenda

- Main Components For The Migration
  - Data
  - Themes
  - Extensions
  - Customization
- Best Practices Analysis
  - Extension Analysis
  - Customization Analysis
  - Core Code Hack Analysis
  - Infrastructure Analysis
- Migration Steps
- Bonus (Time allowed)
- Q/A

© 2017 Magento, Inc.

Migration Overview

Highlights to consider in your migration.

Data Migration

- The data architecture has changed from Magento 1 to Magento 2
- Data migration focuses on the following:
  - Customers
  - Orders
  - Products
  - Promotions
  - Store Configuration
  - Custom Tables
- Magento Migration Tool: Allows for easy migration of tables from M1 to M2
- http://devdocs.magento.com/guides/v2.1/howdoi/migrate/migrate-data.html

© 2017 Magento, Inc.

Themes

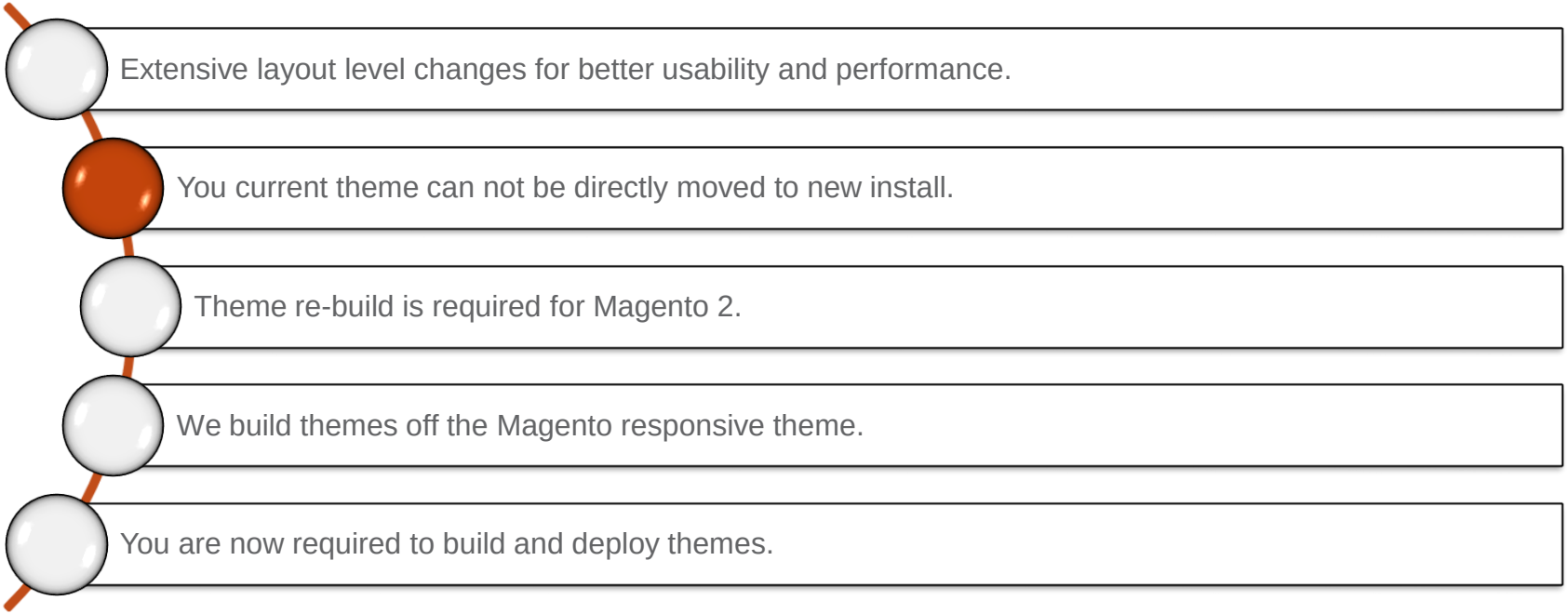
Theming has changed.

- Extensive layout level changes for better usability and performance.
- You current theme can not be directly moved to new install.
- Theme re-build is required for Magento 2.
- We build themes off the Magento responsive theme.
- You are now required to build and deploy themes.

© 2017 Magento, Inc.

Themes

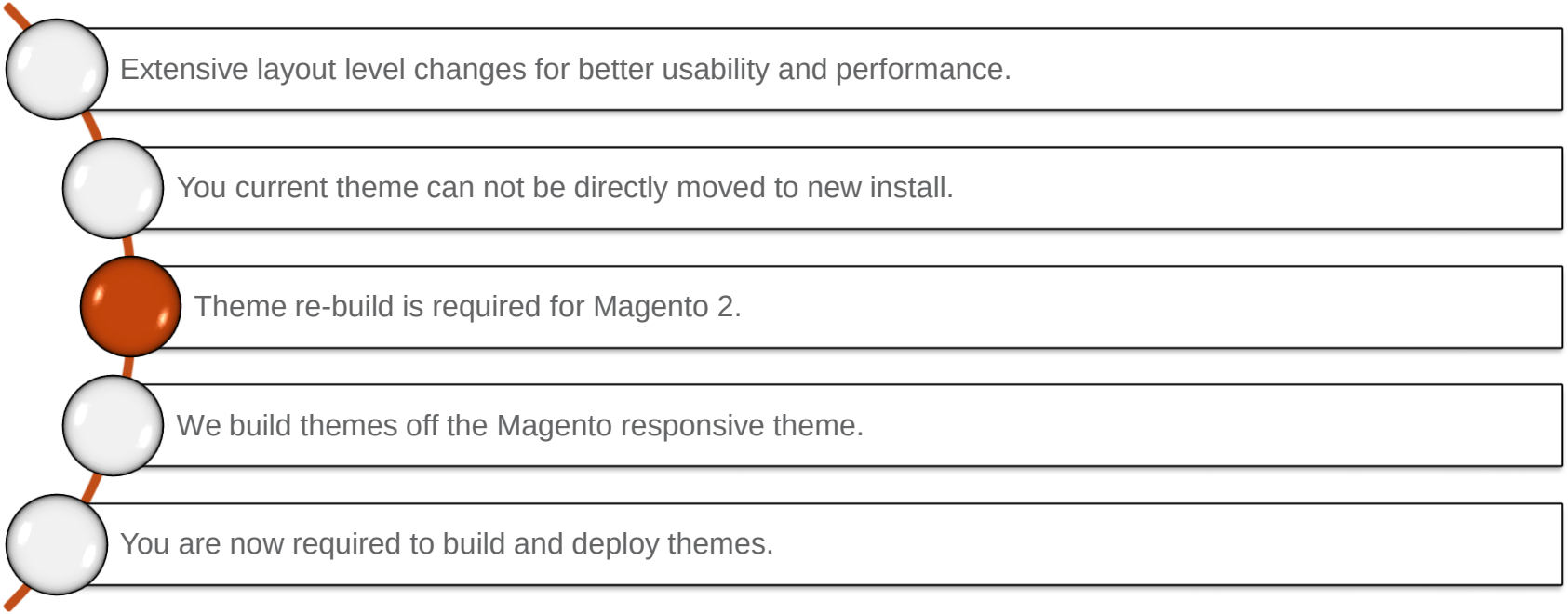
Time for a theme update!



© 2017 Magento, Inc.

Themes

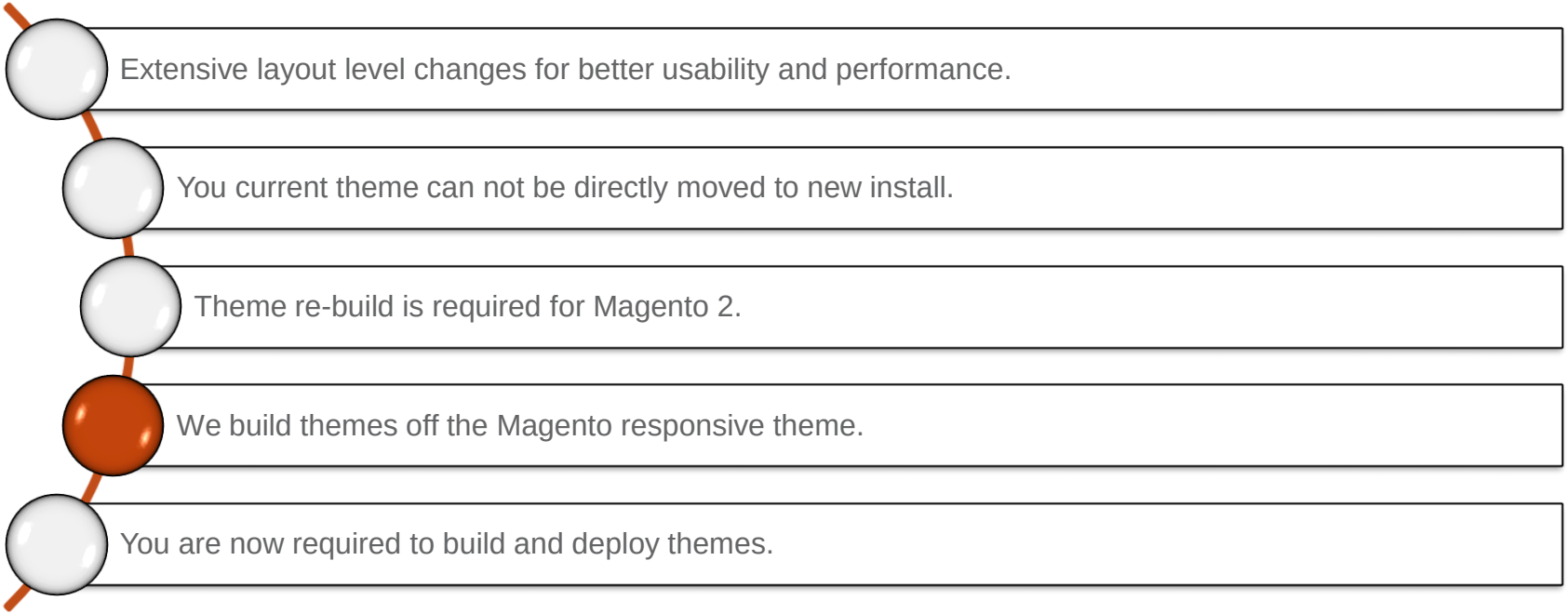
Take this opportunity to update UX and even add AMP



© 2017 Magento, Inc.

Themes

Magento offers a good framework to build from.



© 2017 Magento, Inc.

Themes

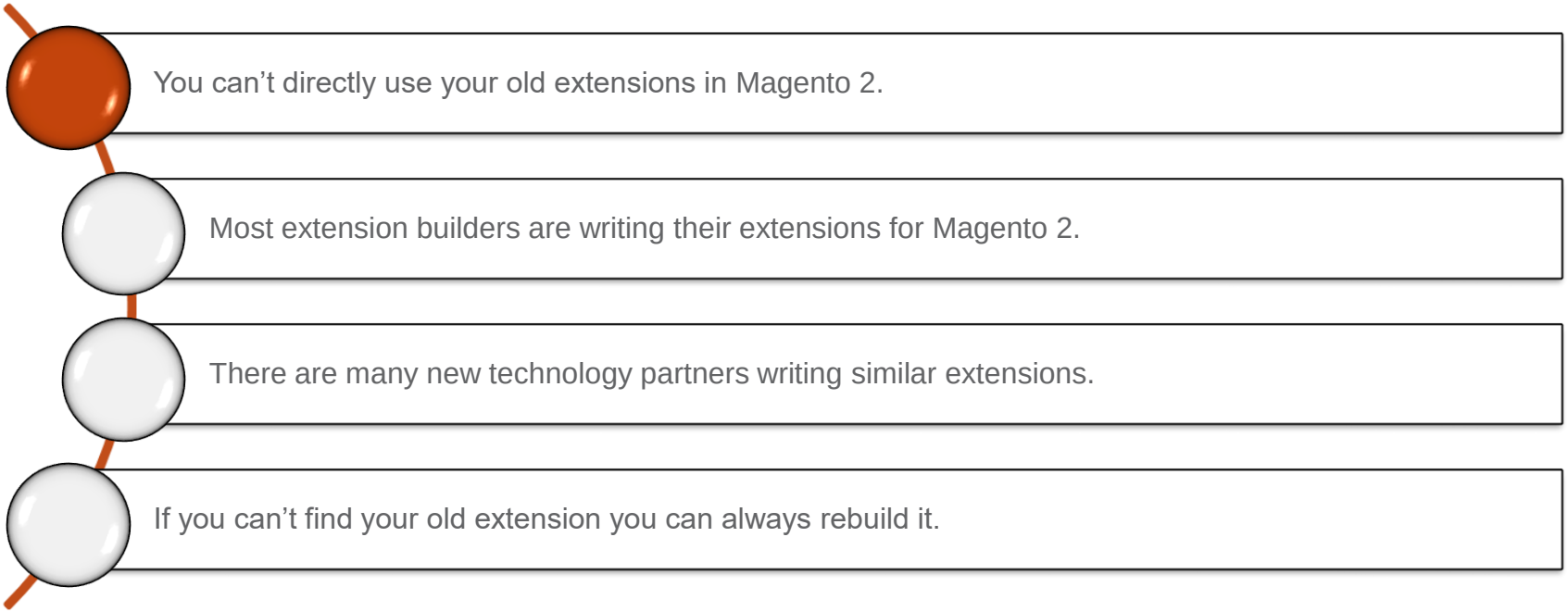
It’s easy and hard… at the same time!

- Extensive layout level changes for better usability and performance.
- You current theme can not be directly moved to new install.
- Theme re-build is required for Magento 2.
- We build themes off the Magento responsive theme.
- You are now required to build and deploy themes.

© 2017 Magento, Inc.

Extensions

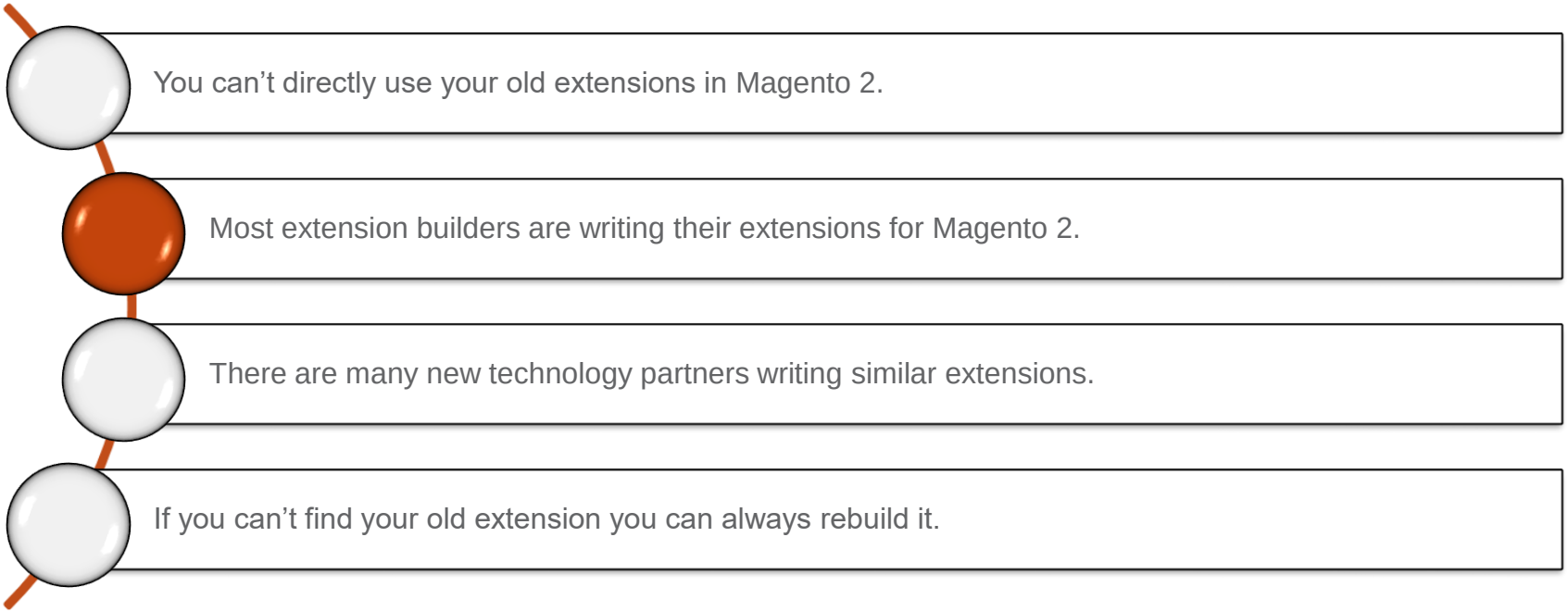
The main components for migrating extensions.



© 2017 Magento, Inc.

Extensions

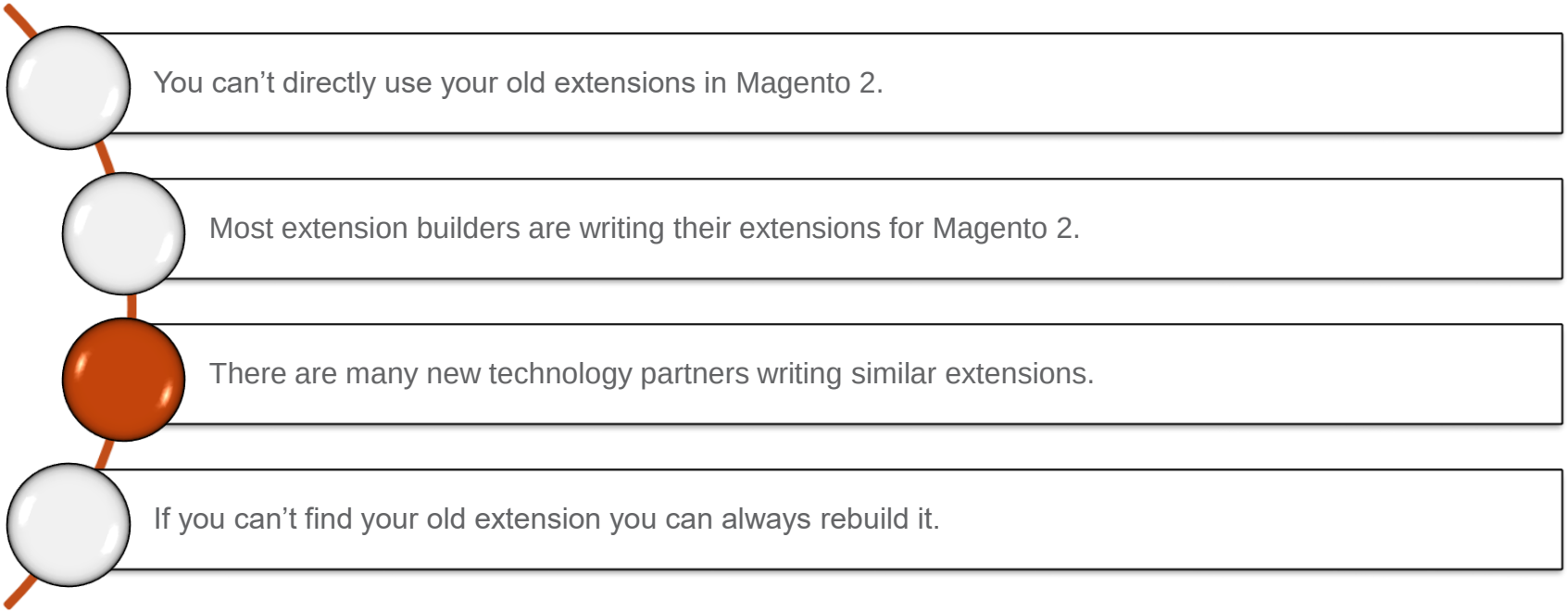
The Magento community is the best in the world.



© 2017 Magento, Inc.

Extensions

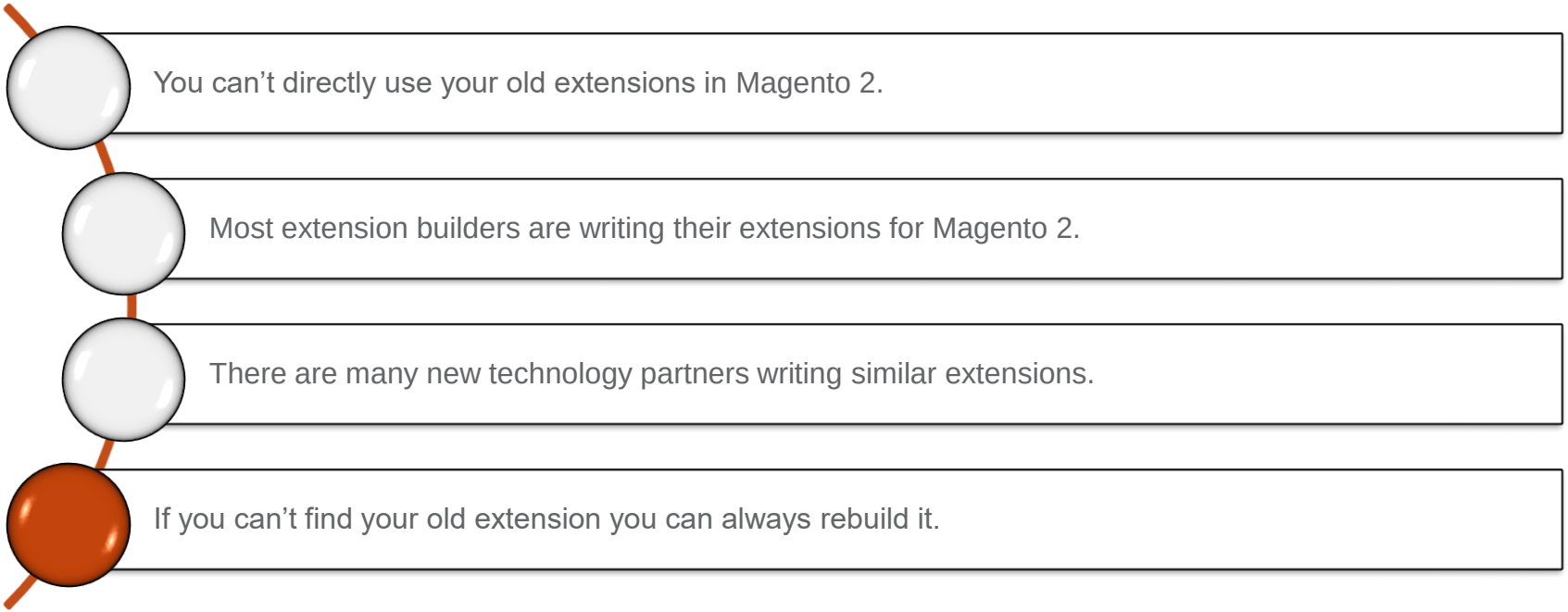
If you extension doesn’t exist in Magento 2, look for a new one!



© 2017 Magento, Inc.

Extensions

Look for a certified developer.



© 2017 Magento, Inc.

Customizations

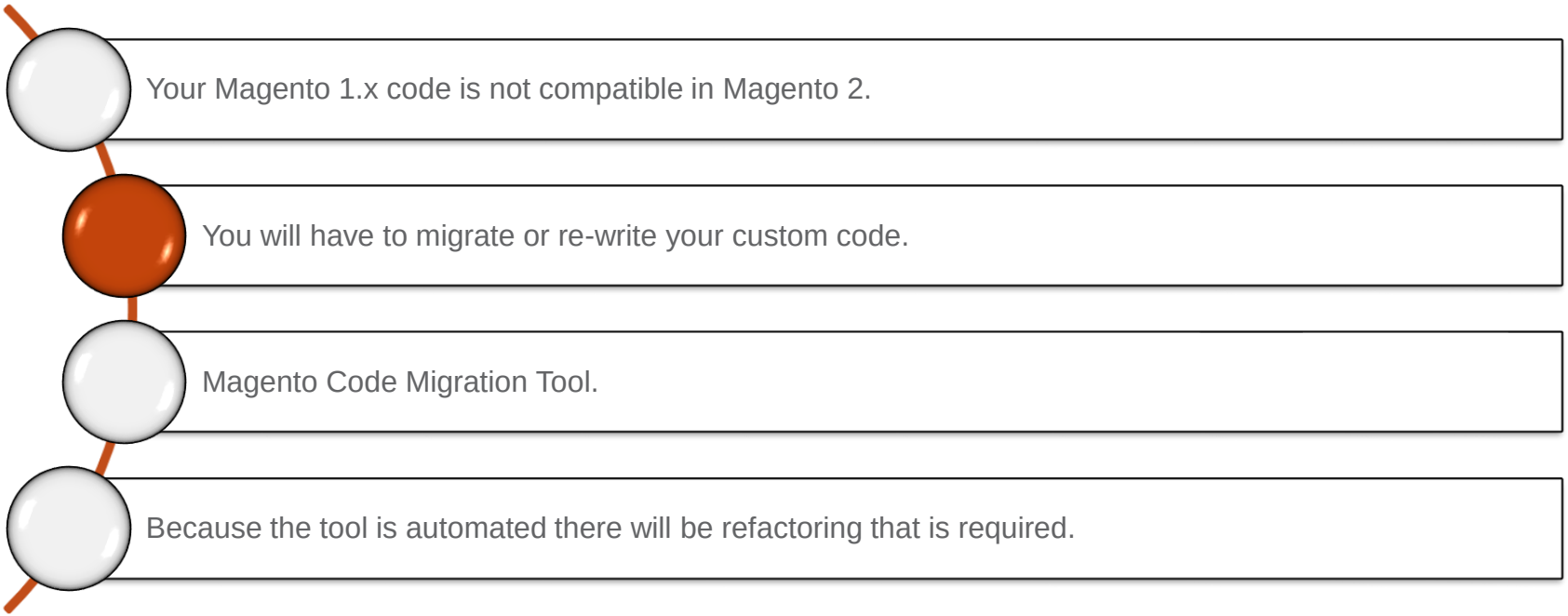
The bits that aren’t already an existing extension.

- Your Magento 1.x code is not compatible in Magento 2.
- You will have to migrate or re-write your custom code.
- Magento Code Migration Tool.
- Because the tool is automated there will be refactoring that is required.

© 2017 Magento, Inc.

Customizations

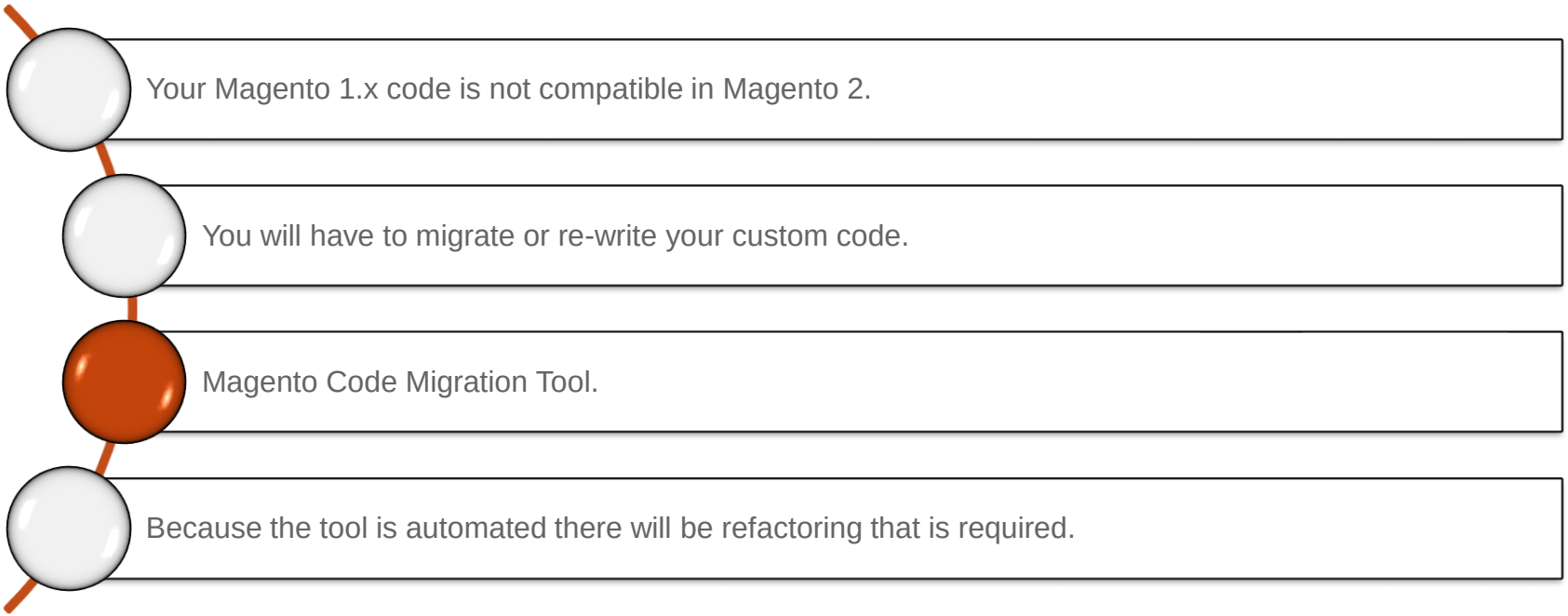
Take this time to make your code even better.



© 2017 Magento, Inc.

Customizations

https://github.com/magento/code-migration



© 2017 Magento, Inc.

Customizations

A small amount of work is required after migration

- Your Magento 1.x code is not compatible in Magento 2.
- You will have to migrate or re-write your custom code.
- Magento Code Migration Tool.
- Because the tool is automated there will be refactoring that is required.

© 2017 Magento, Inc.

ANALYSIS

What the heck are we doing?

Extensions

{ Prioritize to determine what you need }

List all installed extensions.

Divide extensions into four groups.

- Must needed extensions.
- Good to have.
- Can be installed in the future.
- Not needed.

Cleanup

- Unnecessary
- Expired
- Non-Priority

List Extensions Available In Magento 2.

List Extensions To Be Custom Built

© 2017 Magento, Inc.

Core code Hack

{ diff –wrql <source> <destination> }

- Compare Magento source code with your project source code.
- Check & identify all modified code.
- Check if hack requirement is already available in Magento 2.
- Identify which hack requirement needs redevelopment.

© 2017 Magento, Inc.

Infrastructure

http://devdocs.magento.com/magento-system-requirements.html

Magento 2 has new infrastructure requirements.

Update your infrastructure to suite Magento 2.

- Dropped support for PHP 5.5.X.
- Added support for PHP 7.0.X.
- Added support for Elasticsearch 1.7 And 2.X.
- Native support for SOLR and Varnish

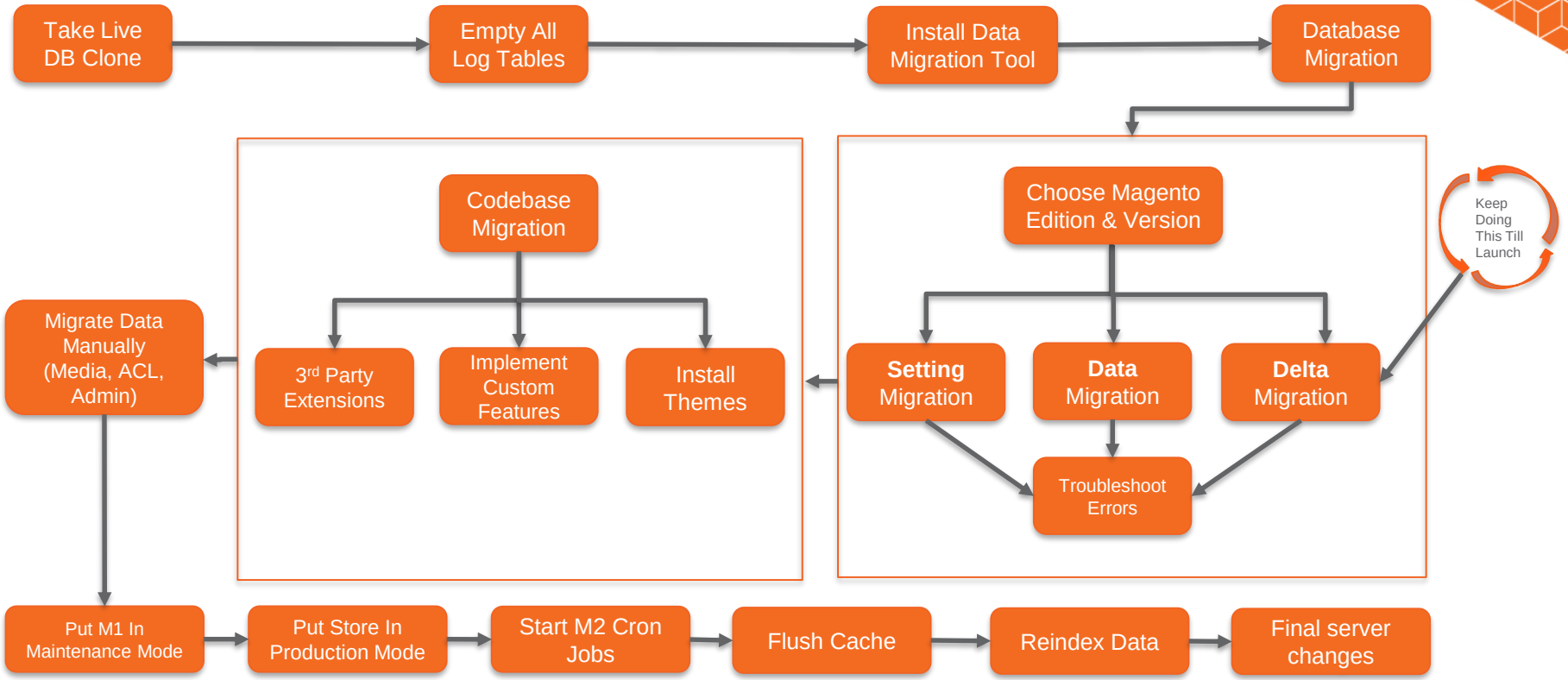
Dev Box is a useful tool

- http://devdocs.magento.com/guides/v2.1/install-gde/docker/docker-over.html

© 2017 Magento, Inc.

The Migration

M1 To M2 Migration Steps



© 2017 Magento, Inc.

Data Migration Troubleshooting Guide: http://devdocs.magento.com/guides/v2.1/migration/migration-troubleshooting.html

Install Magento's Data Migration Tool

Step 1: **Setting** Migration

- Data: Stores, Websites, And System Configuration
- Code: bin/magento migrate:settings [-r|--reset] {<path to config.xml>}

Step 2: **Data** Migration

- Data: Catalogs, Customers, And Orders,
- Code: bin/magento migrate:data [-r|--reset] {<path to config.xml>}

Step 3: **Delta** Migration

- Data: Same As Data Migration
- Code: bin/magento migrate:delta [-r|--reset] {<path to config.xml>}

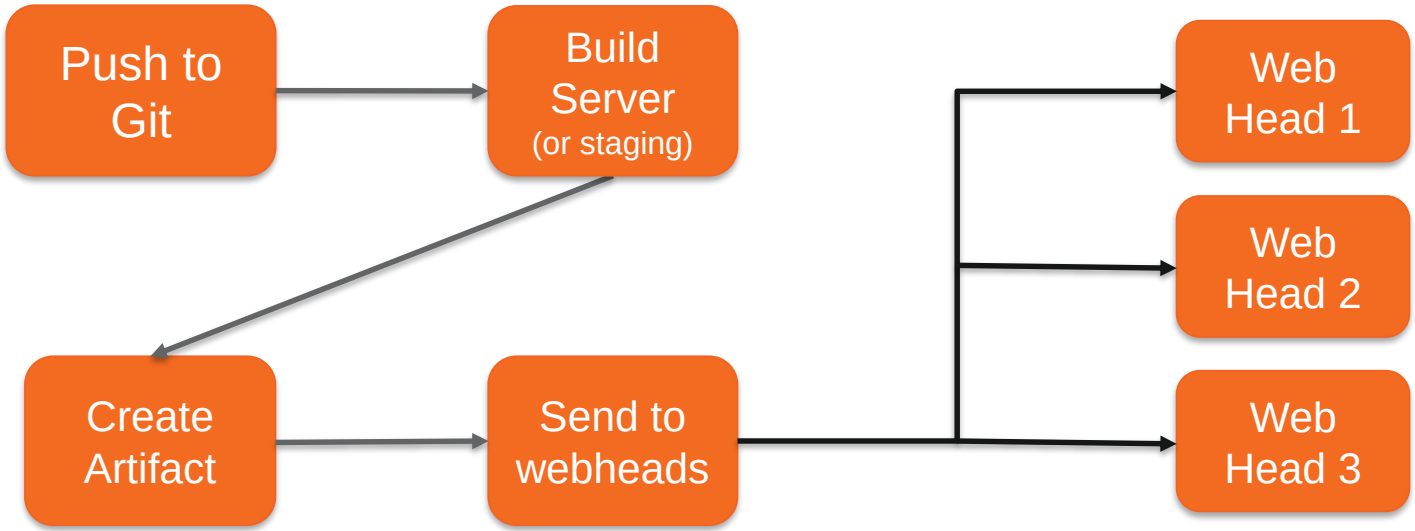
© 2017 Magento, Inc.

Bonus time

How deployments have changed in Magento 2

Deployment

Push – Build – Tar – Deploy - Run



Data Migration Troubleshooting Guide:

http://devdocs.magento.com/guides/v2.1/migration/migration-troubleshooting.html

© 2017 Magento, Inc.

Questions?

Anyone...

email: brent@wagento.com
twitter: @brentwpeterson

© 2017 Magento, Inc.

MySQL backup and restore

- Backup database.

- `mysqldump –u<user> -p <database> > myfile.sql`

- Restore data and empty all log tables.

- `mysql –u<user> -p <new_database> < myfile.sql`
- truncate dataflow_batch_export;truncate dataflow_batch_import;truncate log_customer;truncate log_quote;truncate log_summary;truncate log_summary_type;truncate log_url;truncate log_url_info;truncate log_visitor;truncate log_visitor_info;truncate log_visitor_online;truncate report_viewed_product_index;truncate report_compared_product_index;truncate report_event;truncate sendfriend_log;

© 2017 Magento, Inc.

Thank you

email: brent@wagento.com
twitter: @brentwpeterson

© 2017 Magento, Inc.

Magento Live
UK | 2017