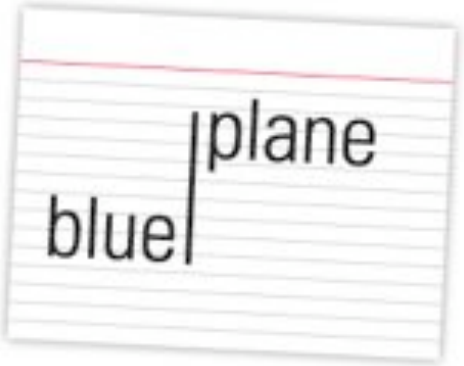

From Good to Great Developer

Chris Hedgate
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'Good to Great' matters!

We are doing it wrong!

Thank you!

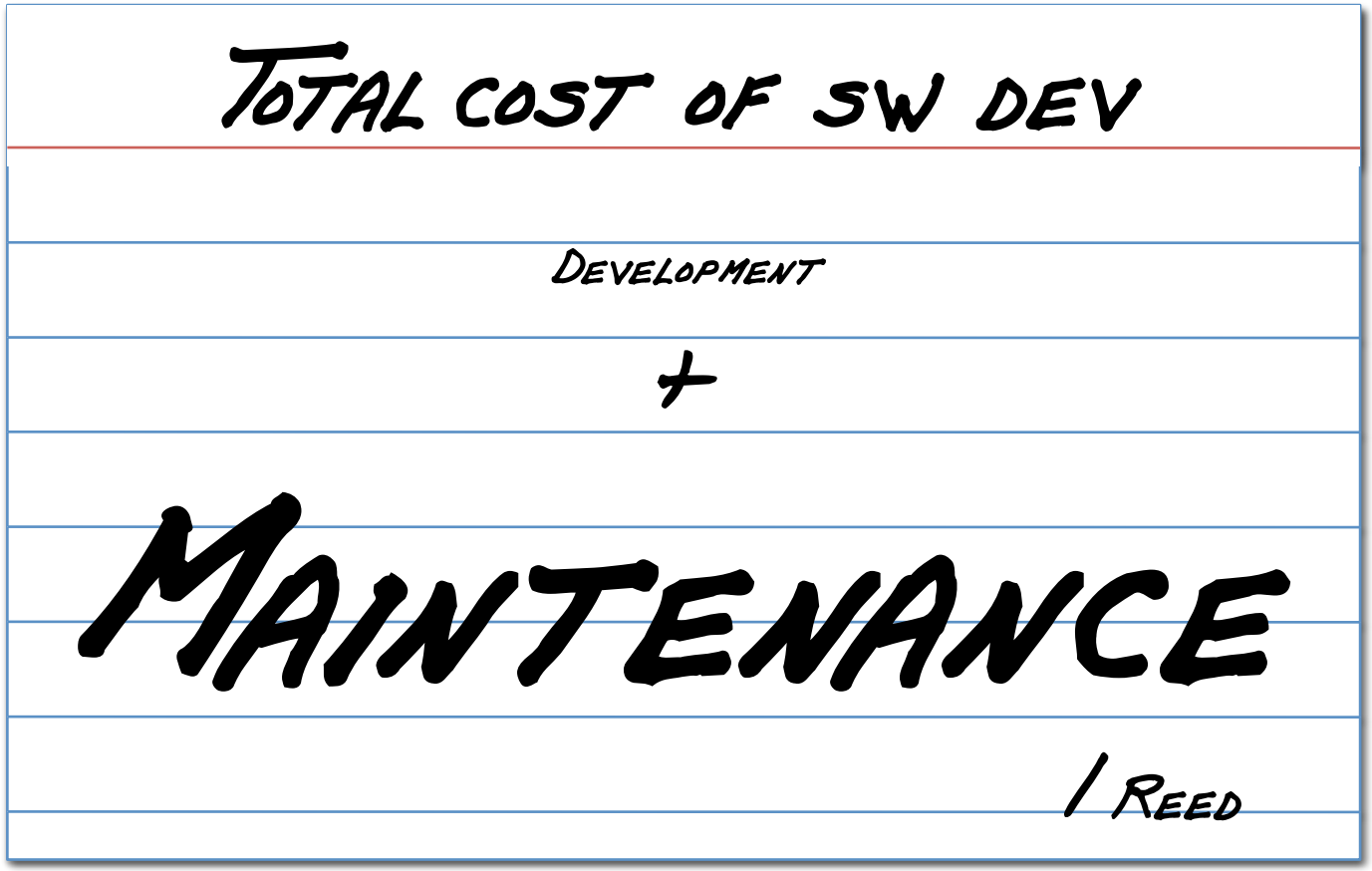
Questions?


Reed, Great D
The Boss!

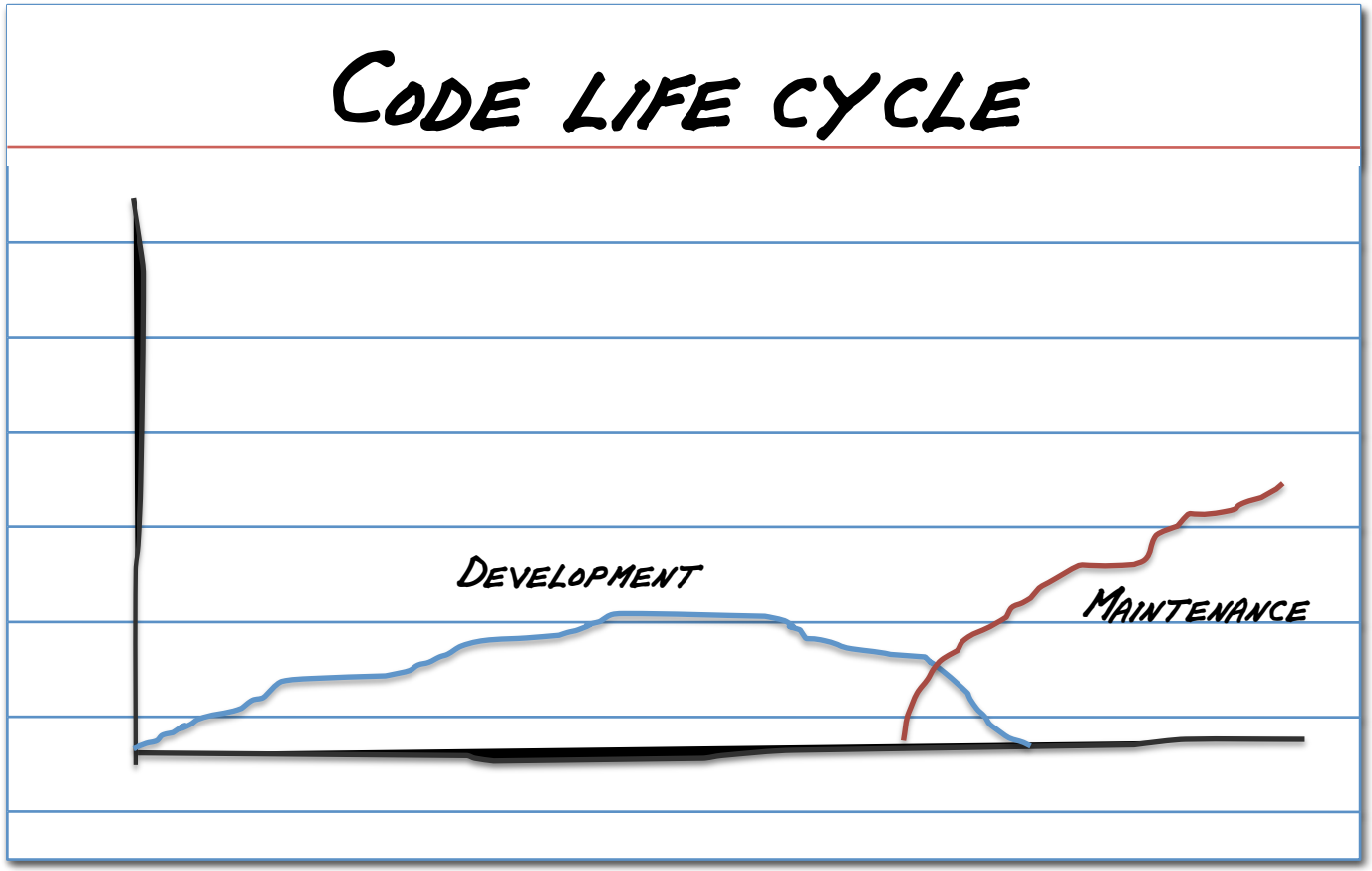
Reed's insights

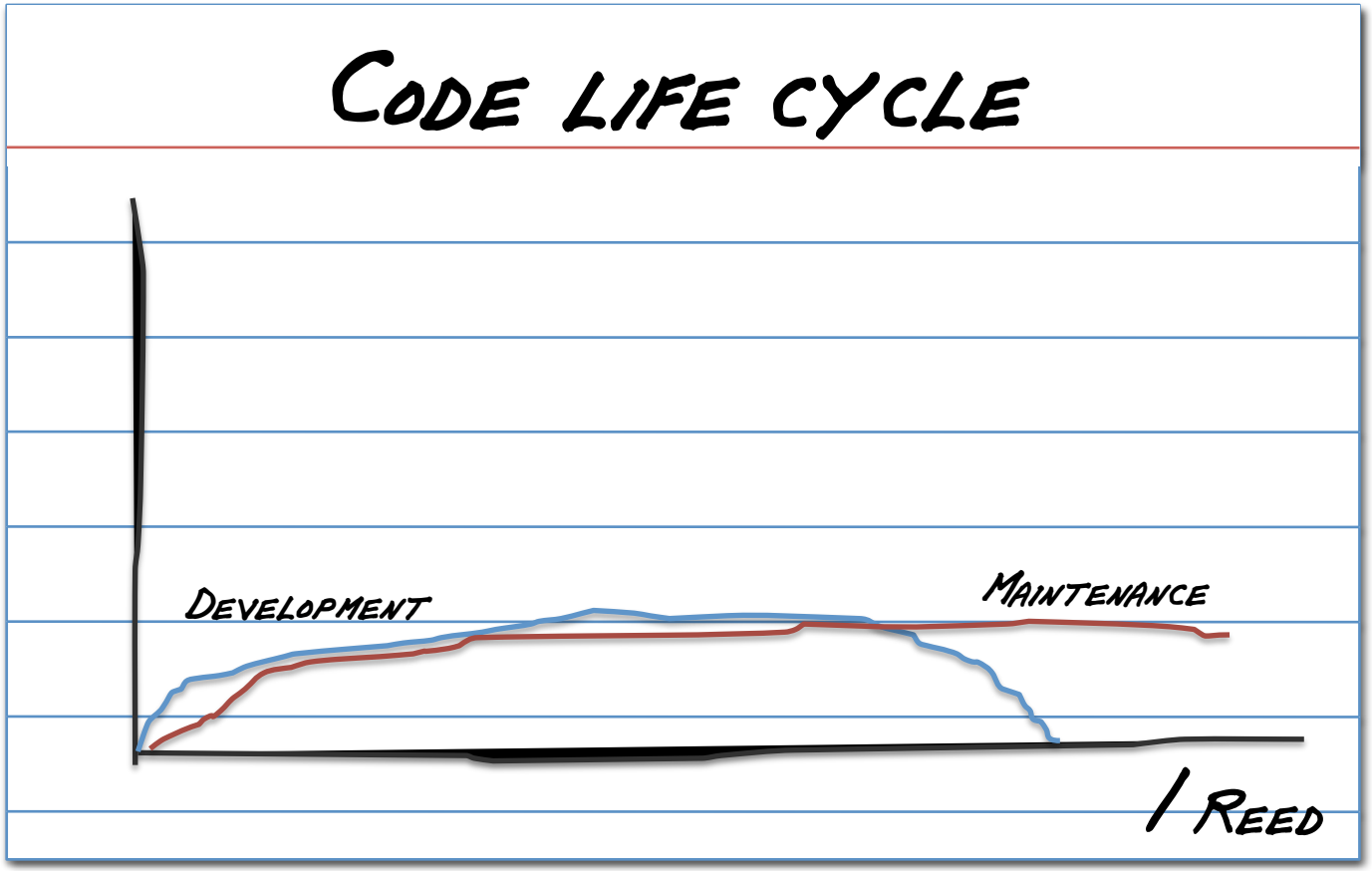
Total cost of SW dev

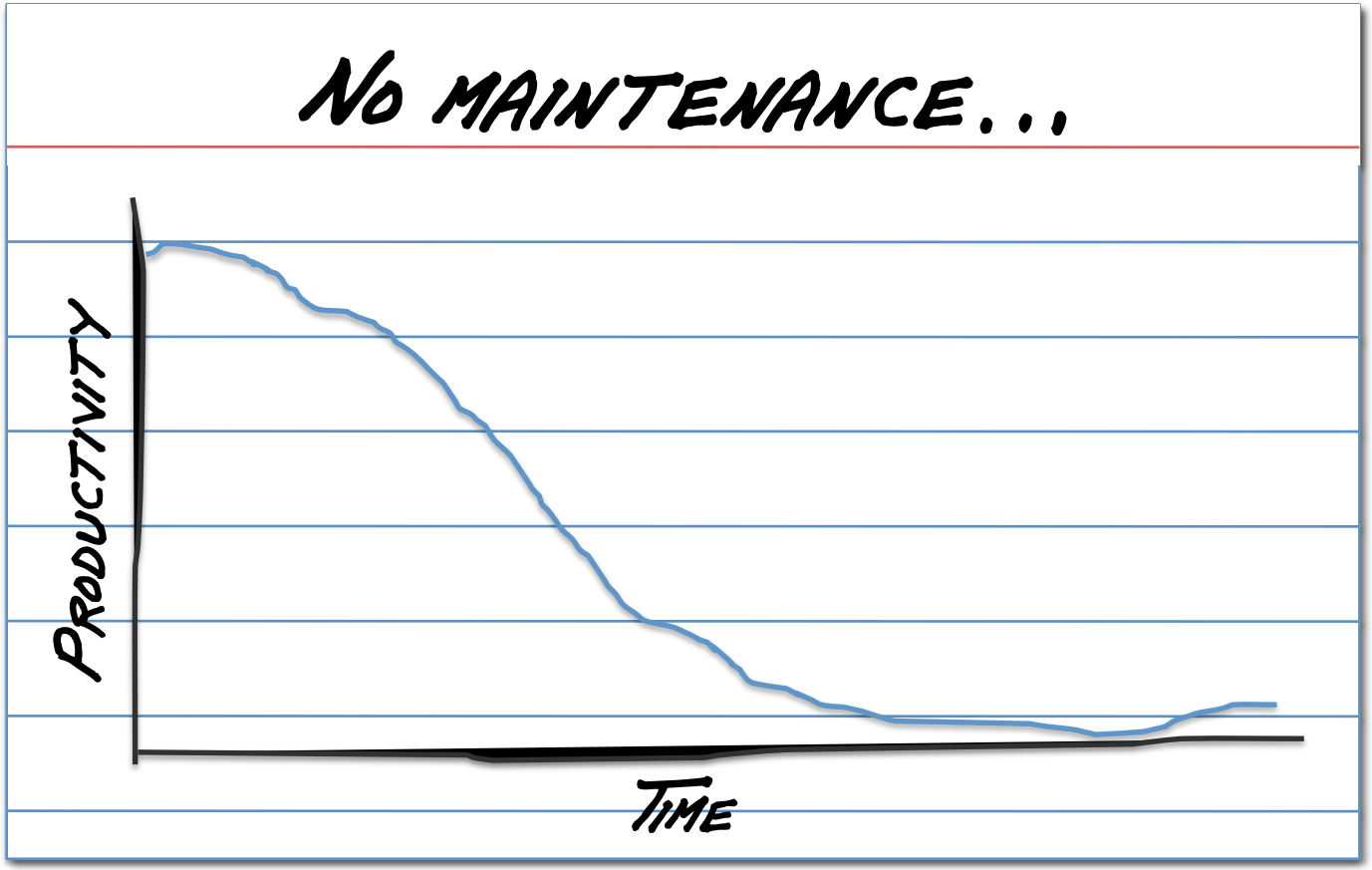
Development + Maintenance

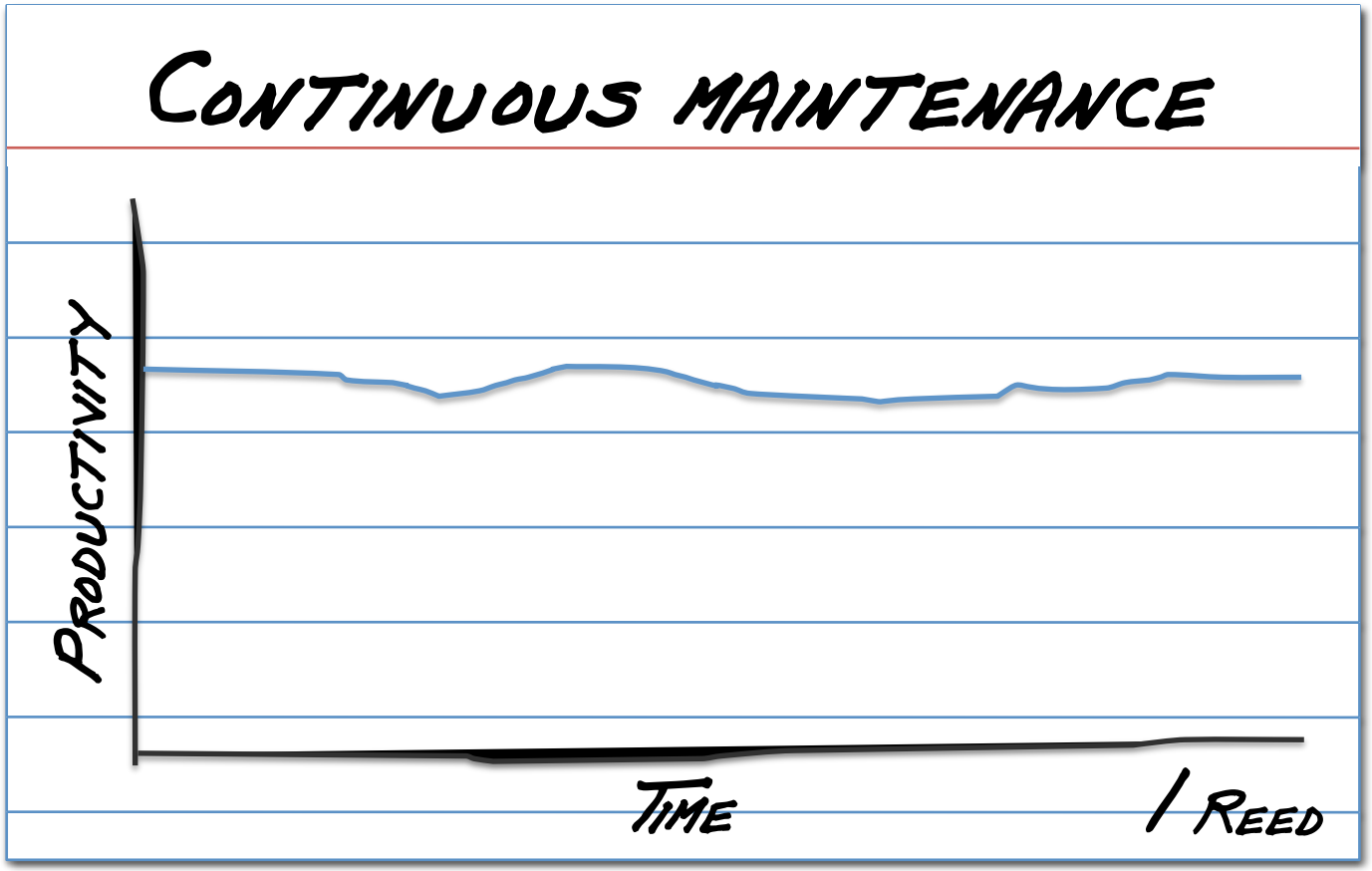

TOTAL COST OF SW DEV
DEVELOPMENT
+
MAINTENANCE
/ REED

Code life cycle




Code life cycle
Development
Maintenance
/ Reed


No maintenance...
Productivity
Time


Continuous maintenance
Productivity
Time
/ Reed

Reed's two guiding principles

Basic principle

Existing code must be continuously maintained and improved

Corollary principle

All code must be easy to maintain!

Code maintenance...

Understand + Modify

Corollary principle

All code must be
easy to understand
and simple to modify

LoadsaPics.com

LoadsaPics

Most viewed

Top ranked

Top ranked pics

Most downloads

In order to find great pictures to download

As a visitor

I want to see the most downloaded pictures

```
public void showPicturesSorted(
                        int age,
                        Comparator<Picture> sortAlgorithm)
                    throws NotOldEnoughException {
    verifyUserIsOldEnough(age);
    List<Picture> allPictures = findAllPictures();
    sortPictures(allPictures, sortAlgorithm);
    view.setPicturesToShow(allPictures);
}
```

Top ranked pictures

```
controller = new PictureListingController(view);
controller.showPicturesByRank(age);
```

```
controller = new PictureListingController(view);
controller.showPicturesSorted(
                                age,
                                new AverageVoteComparator());
```

Most viewed pictures

```
controller = new PictureListingController(view);
controller.showTopPictures(age);
```

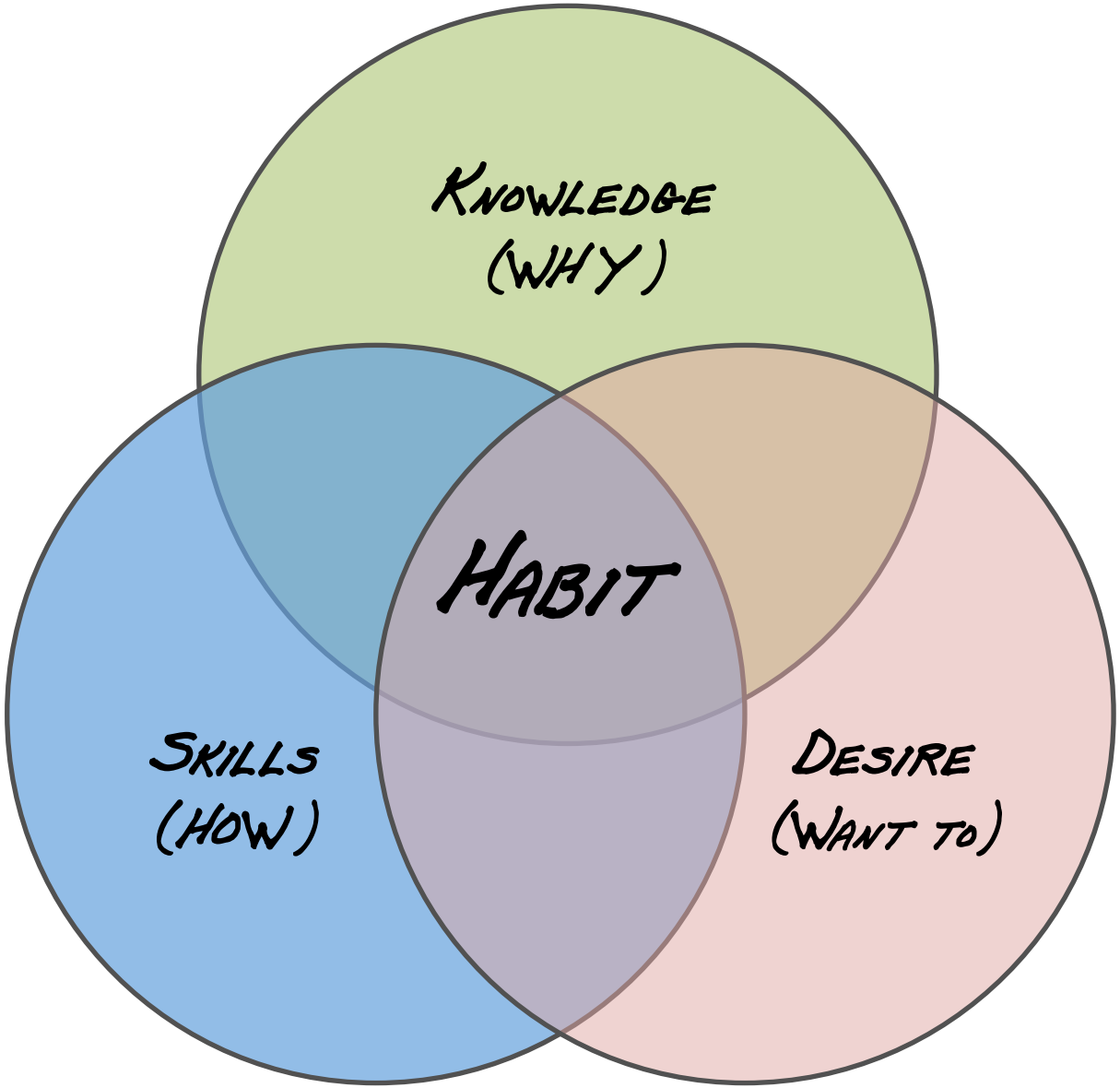
```
controller = new PictureListingController(view);
controller.showPicturesSorted(
                                age,
                                new ViewsComparator());
```

Most downloaded pictures

```
controller = new PictureListingController(view);
controller.showPicturesSorted(
                                    age,
                                    new DownloadsComparator());
```

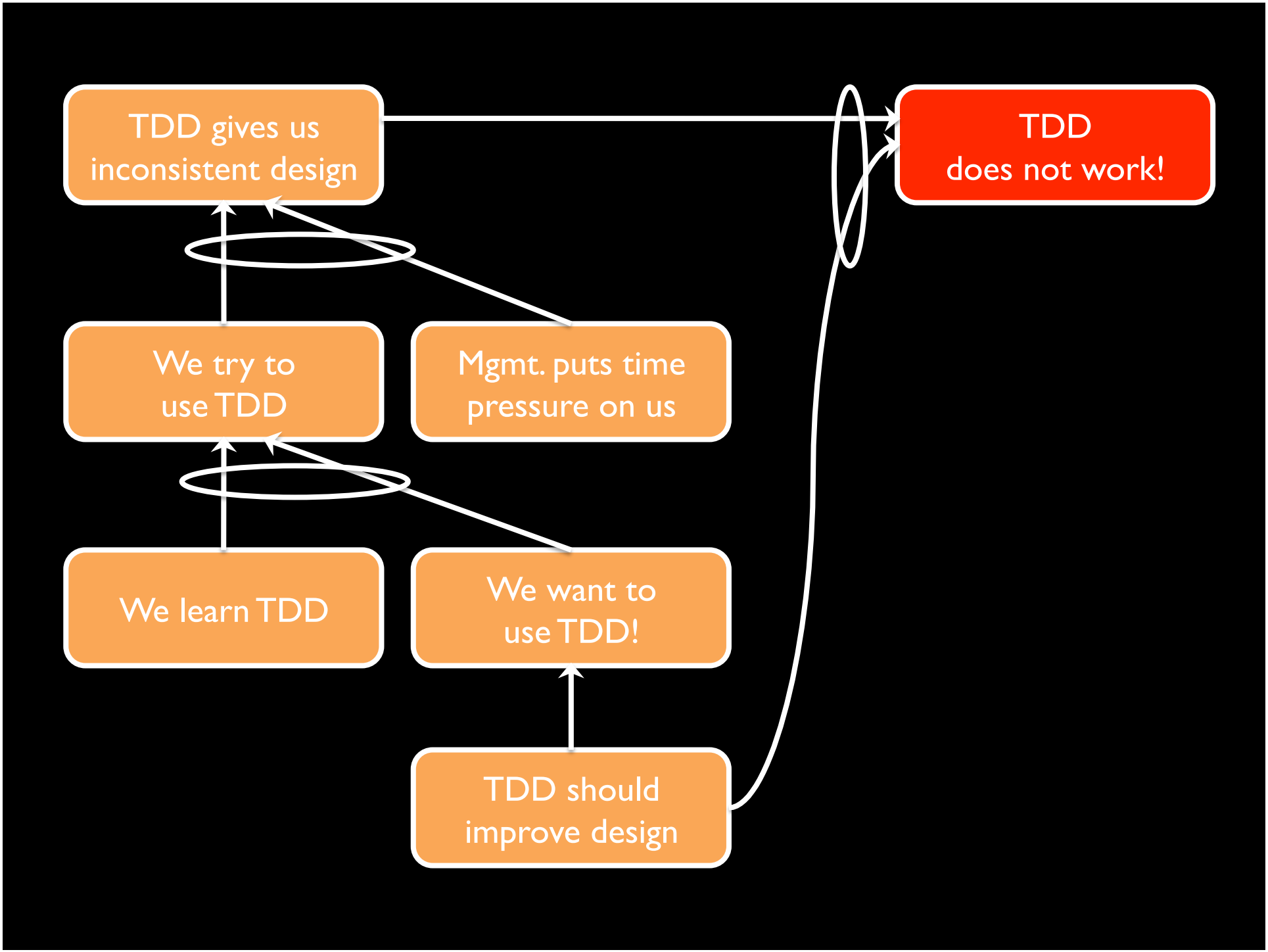
Continuous code maintenance is a habit

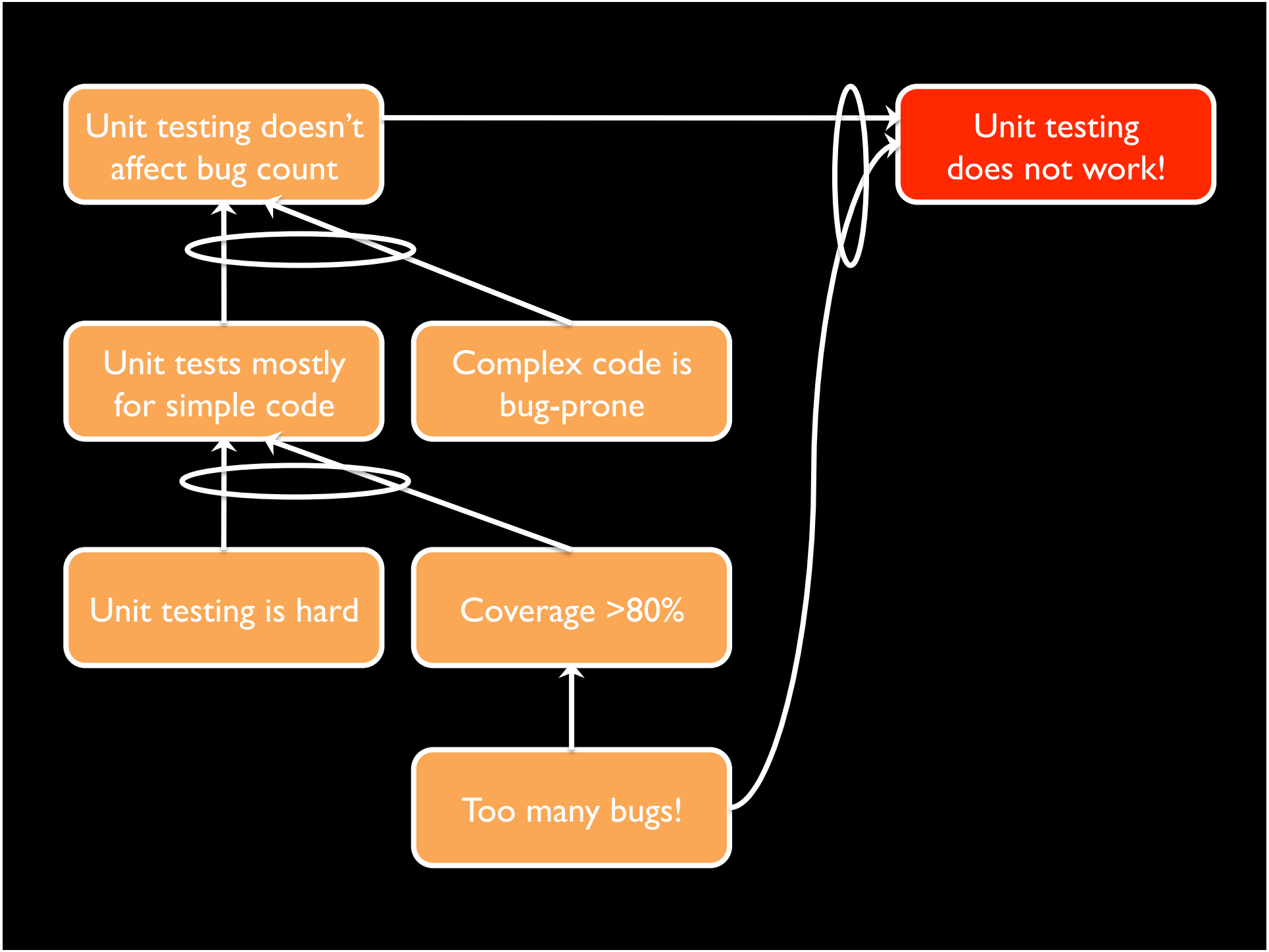
"Why is it just me...?"



Stephen Covey, The 7 Habits of Highly Effective People

Failure?


TDD gives us inconsistent design
TDD does not work!
We try to use TDD
Mgmt. puts time pressure on us
We learn TDD
We want to use TDD!
TDD should improve design


Unit testing doesn't affect bug count
Unit testing does not work!
Unit tests mostly for simple code
Complex code is bug-prone
Unit testing is hard
Coverage >80%
Too many bugs!

Drivers: Stand Up!

Four stages of competence

Good to Great

1. Inspire with attitude
2. Use simple tools
3. Involve people

Reed's attitude

Simplify,

Improve,

Modify

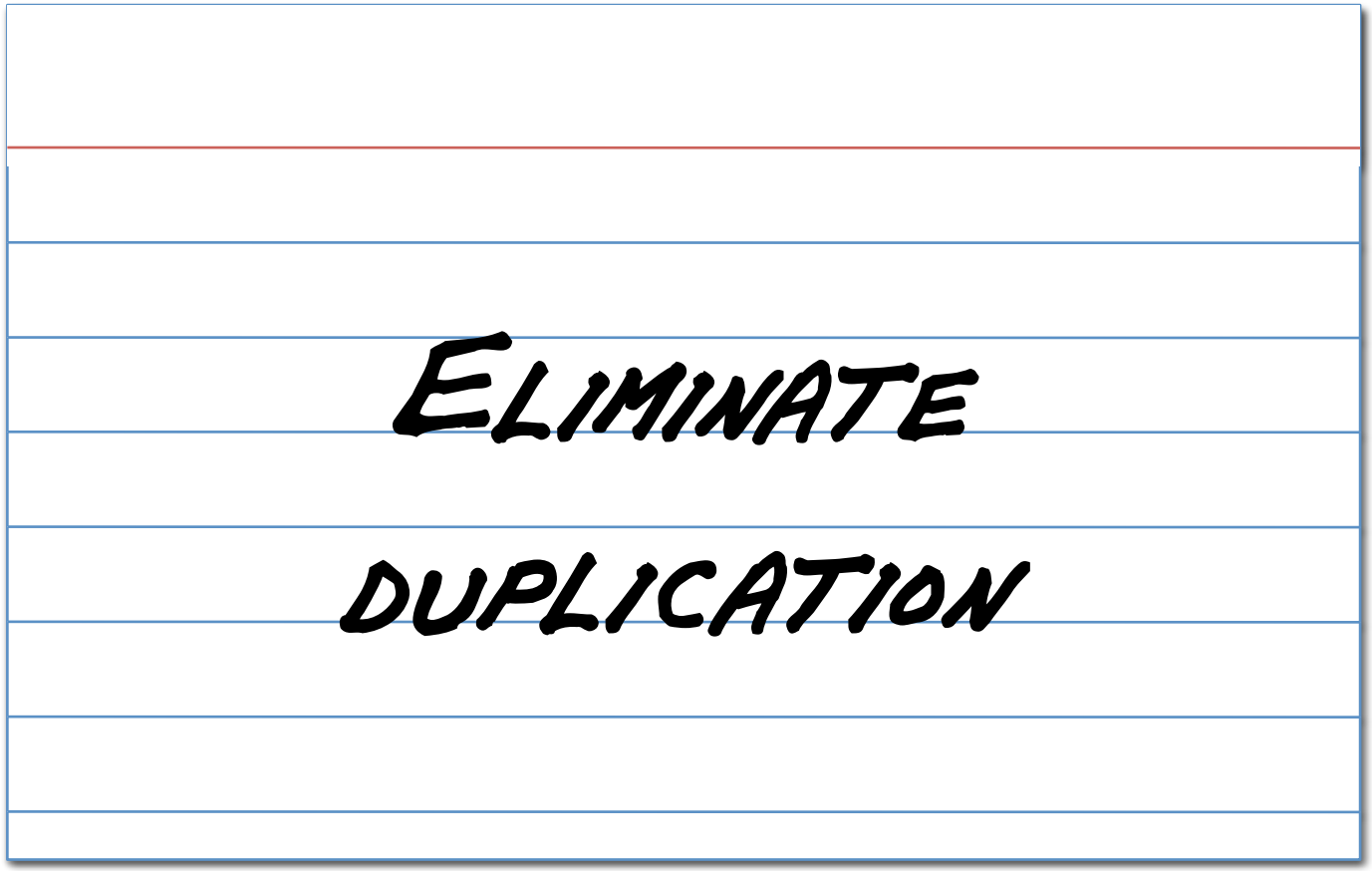
Reed's attitude

Never leave code in worse shape than how you found it

Reed's simple tools

Name things

Reed's simple tools

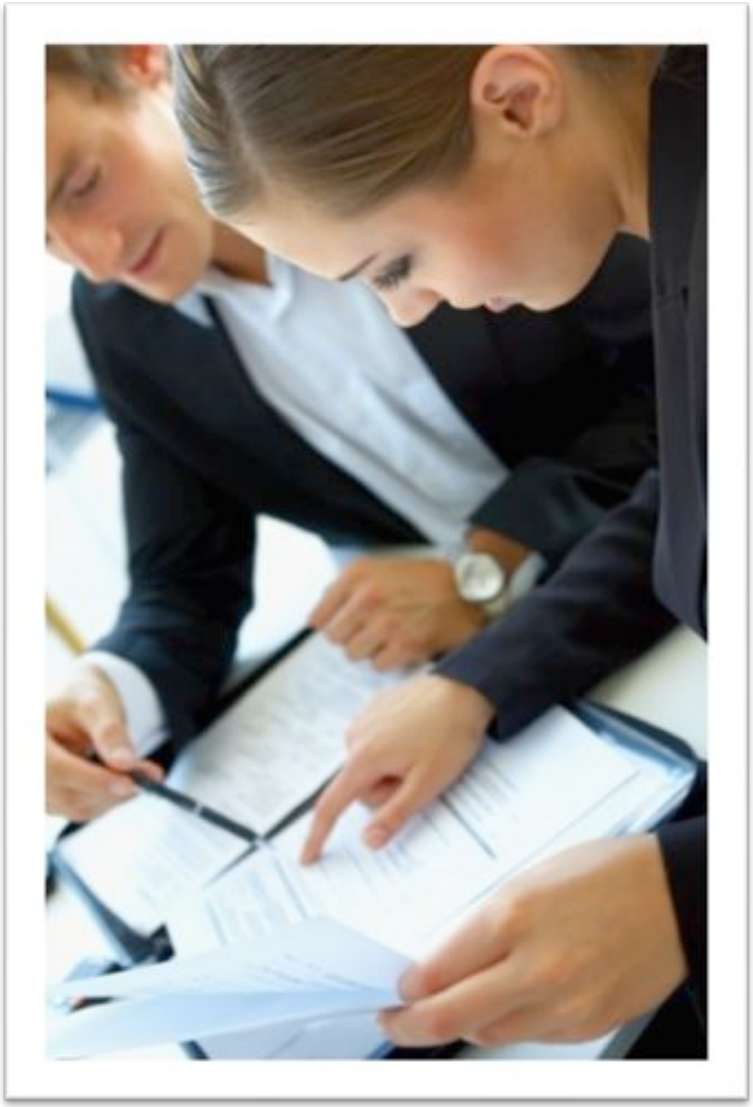


Pair programming

Study circles

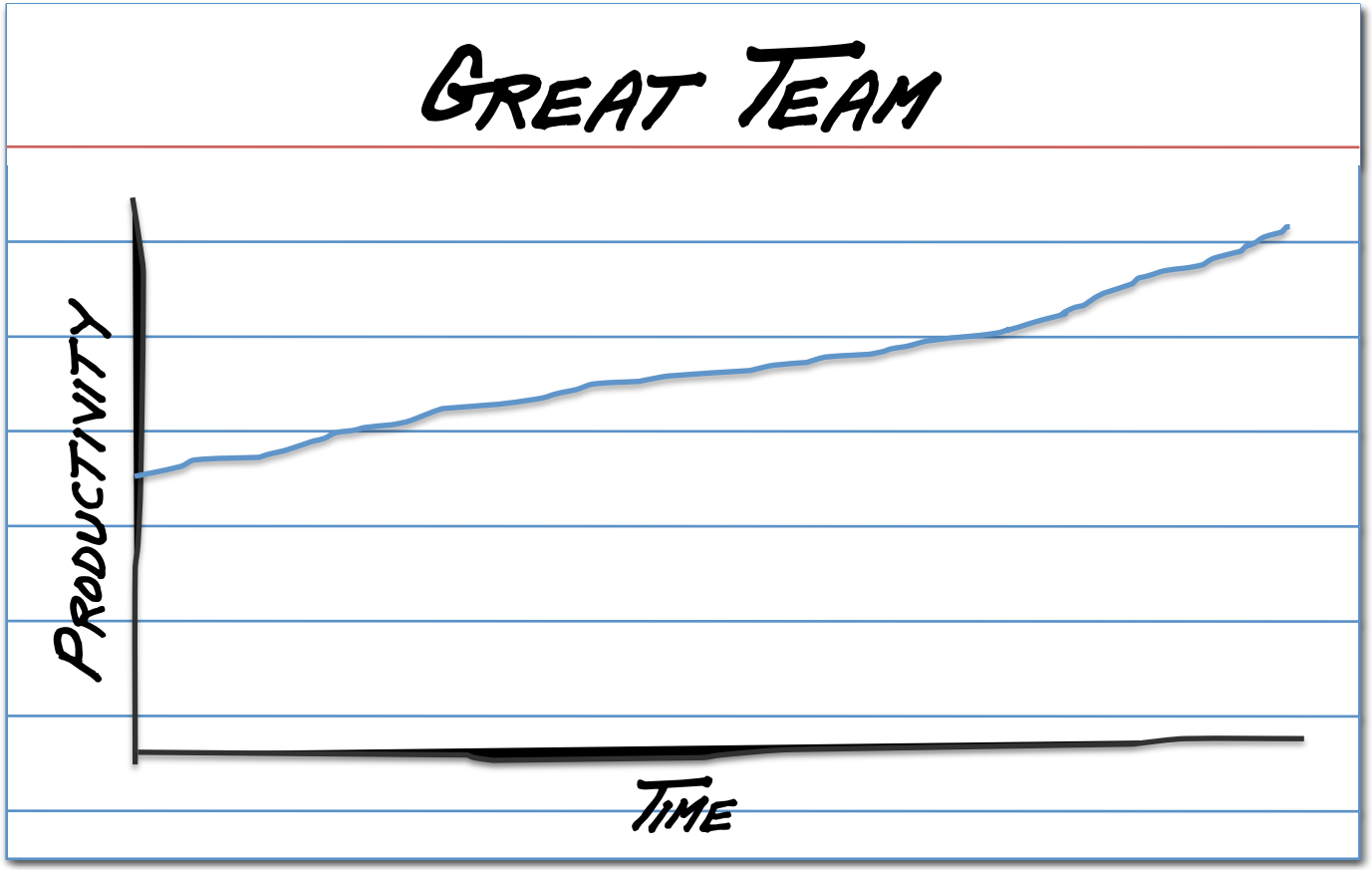
Reflect and discuss

Action!
Start doing collective code reviews



Think about

how to guide the team!


Great Team
Productivity
Time

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blue | plane