

The Terminators with script

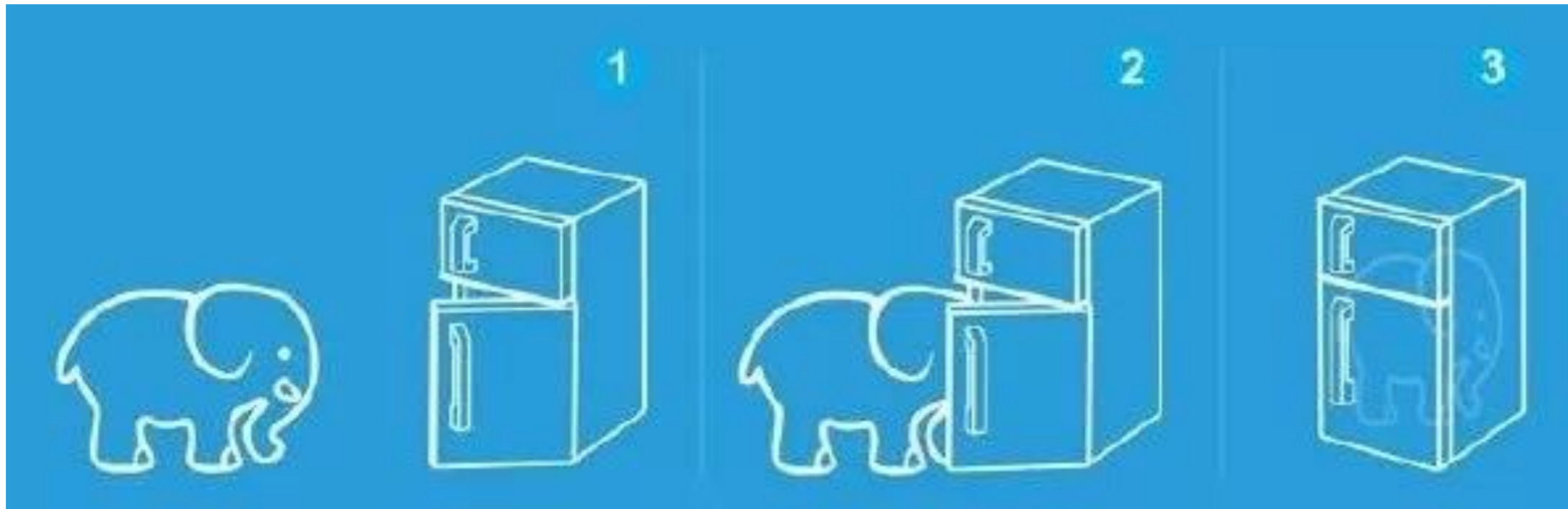
Linus Ling

The Terminators

- Why are they here?
- What are they?
- How do they work?

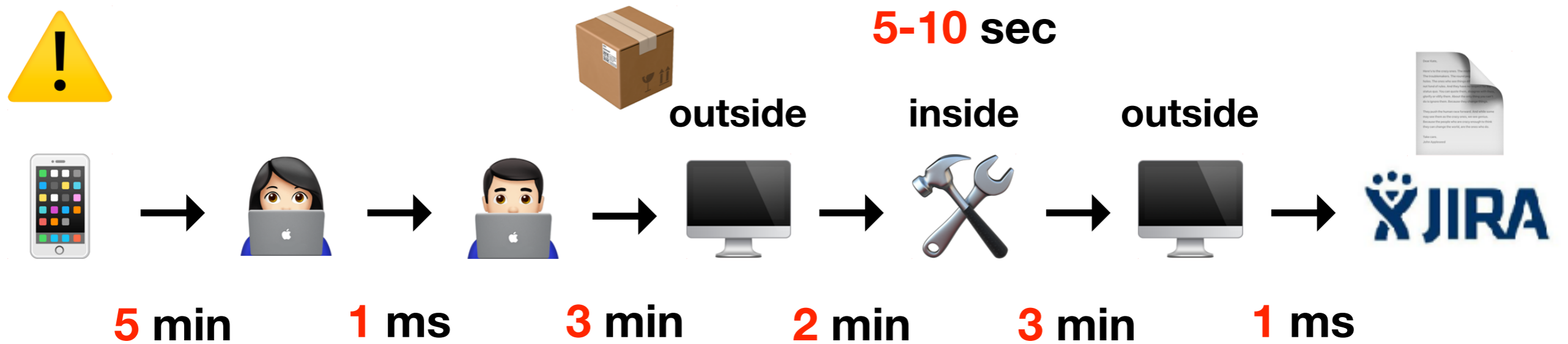
Why?

Why?

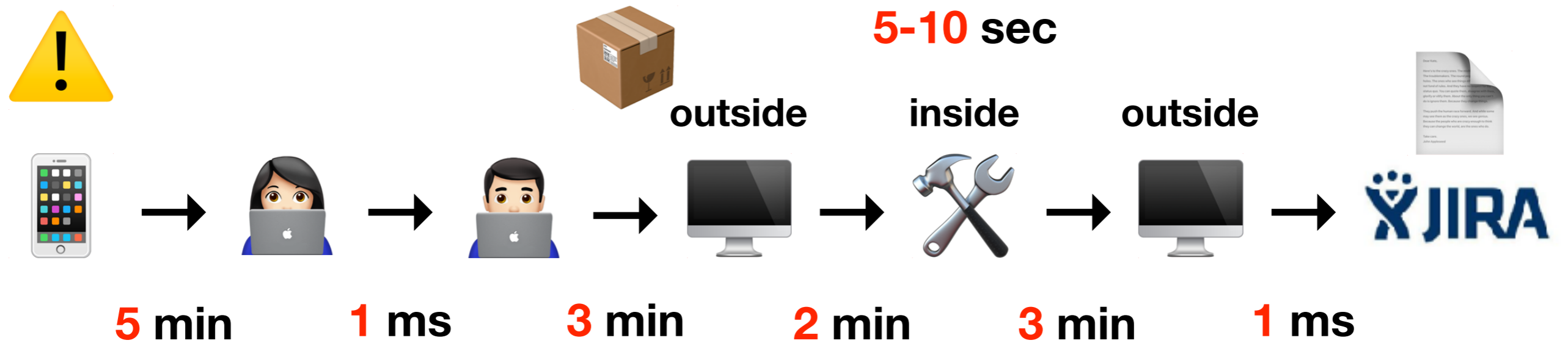


Why?

Why?



Phase 1

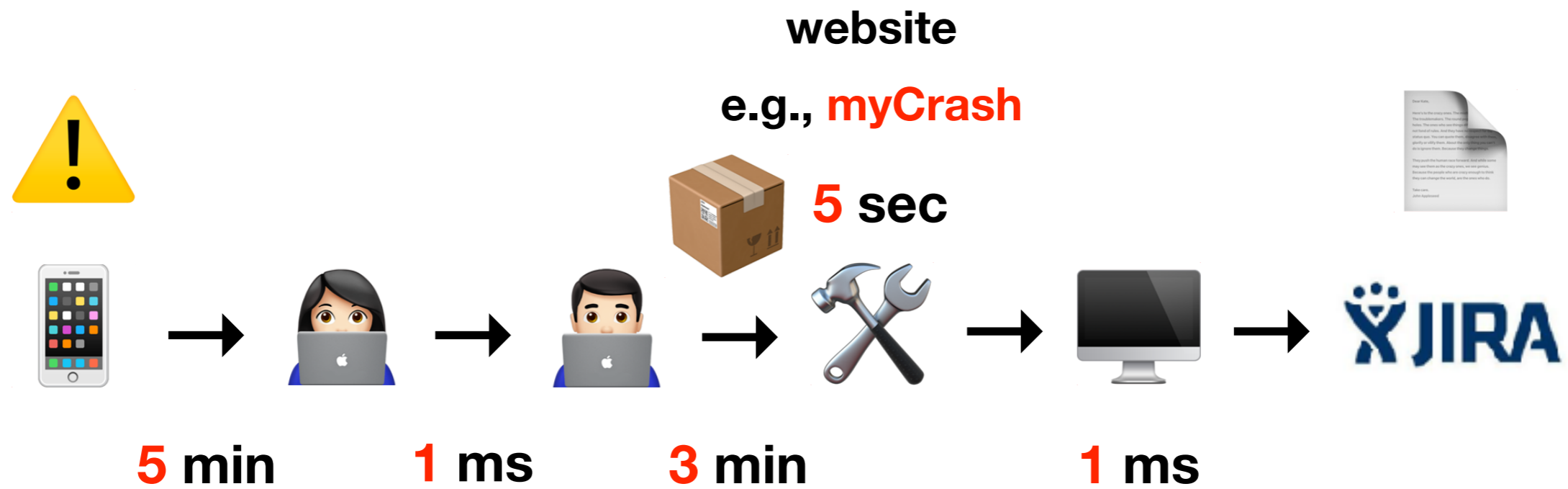


Defects: time consuming, low accuracy and completeness

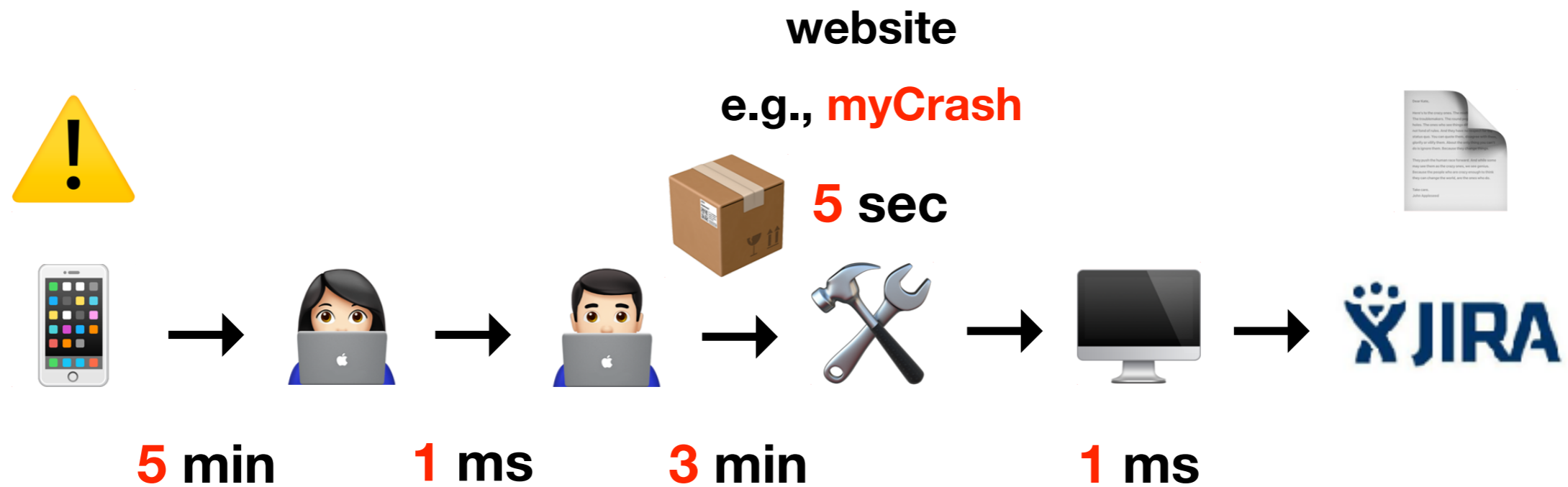
~15 min

PrivateFrameworks

Phase 2



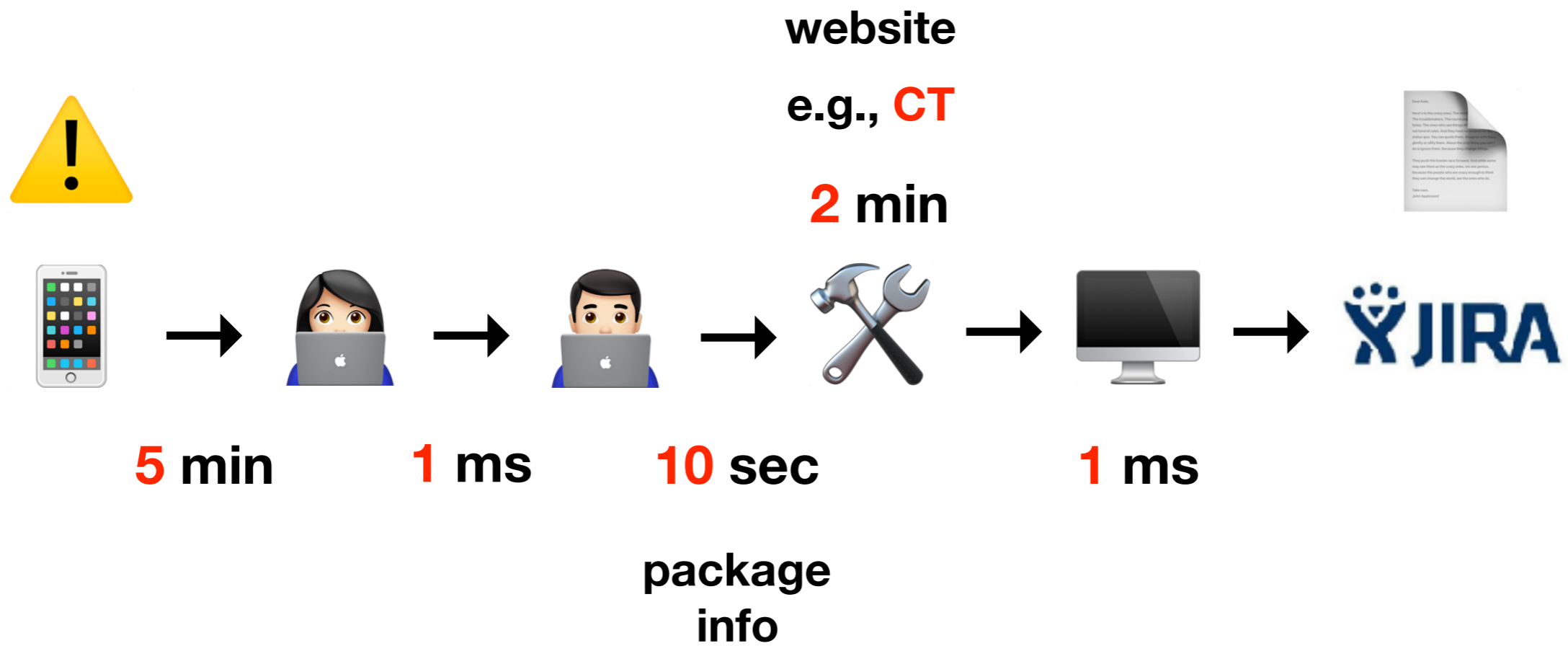
Phase 2



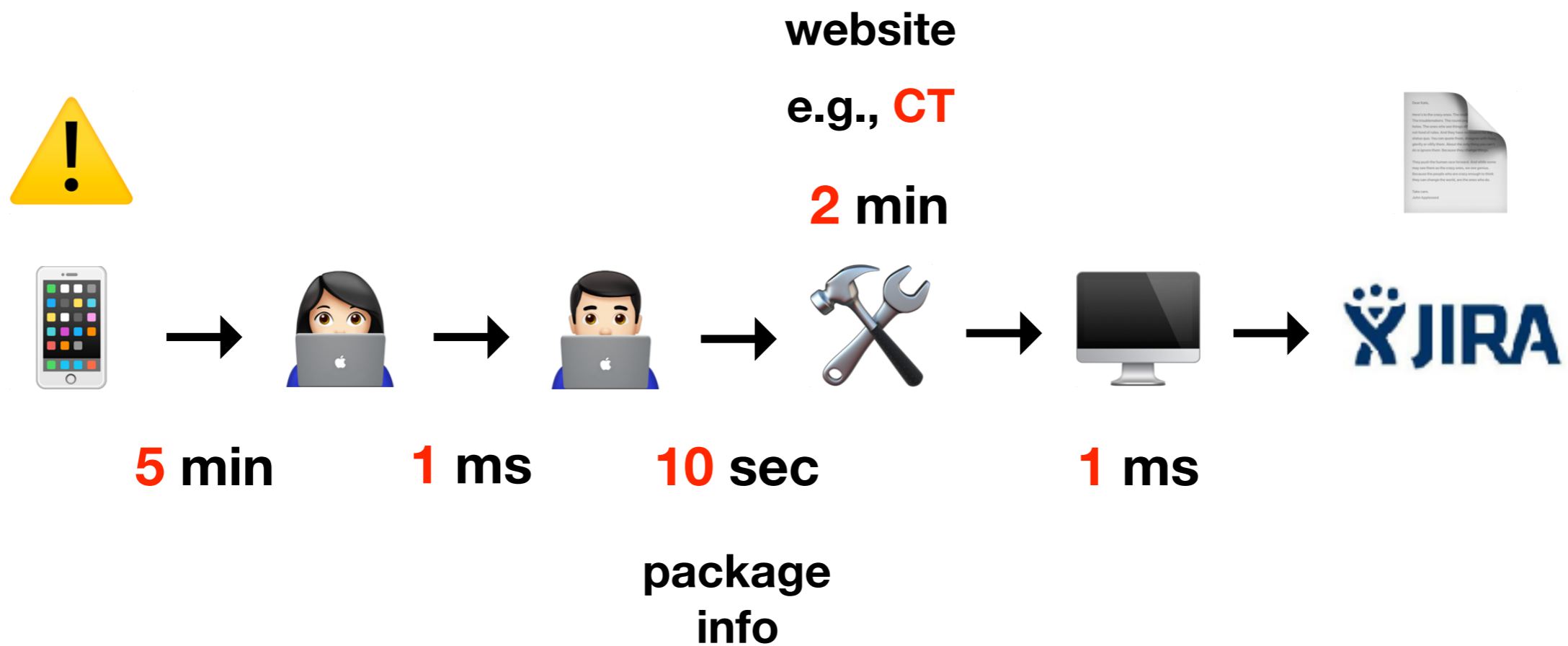
Defects: time consuming, hard to use and low success rate

8+ min

Phase 3



Phase 3



Advantages: partly async, completeness and easy-to-use

5+3 min

ct website

啥？

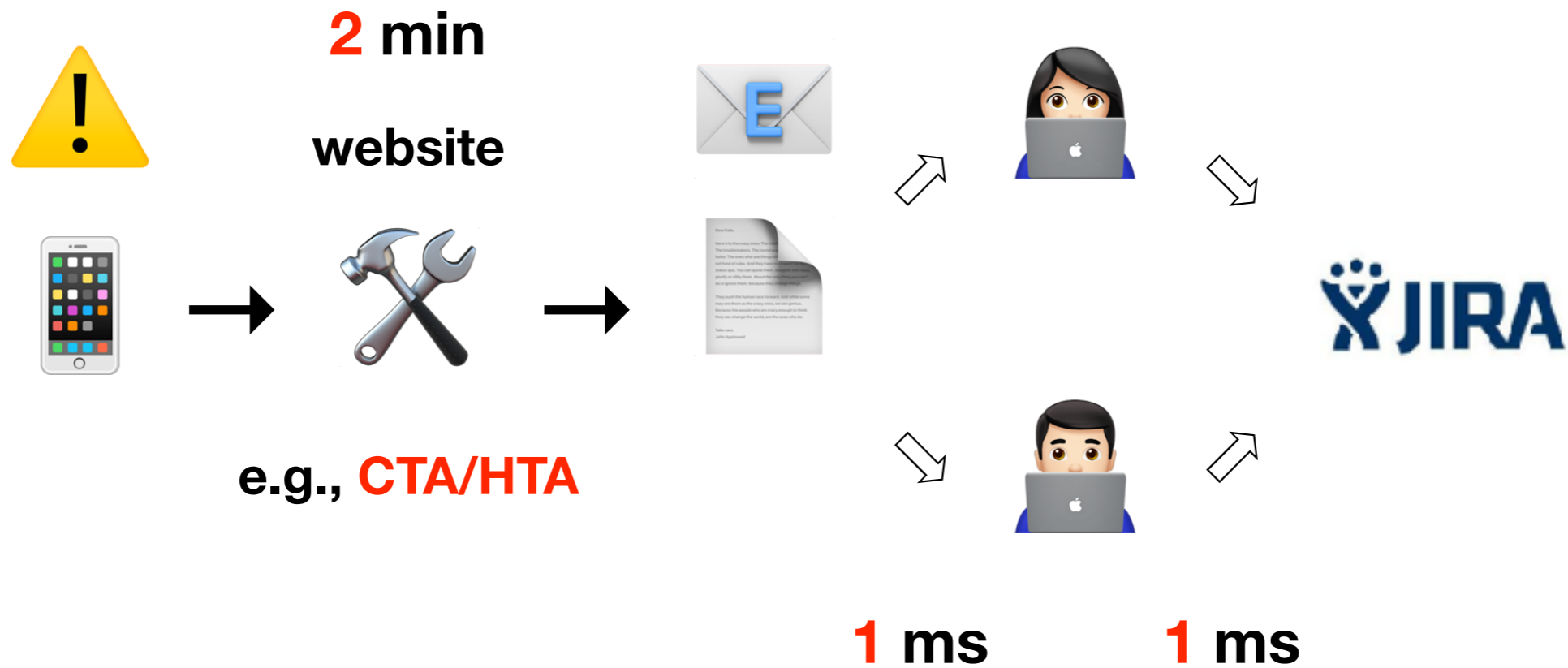


你以为就这样没了
吗？

The Terminators

- **C**rash **T**erminator
- **C**rash **T**erminator **A**uto
- **H**ang **T**erminator **A**uto


CTA/HTA



Advantages: totally async, automatic

1 ms

How?

- Goal → 
- Workflow
- Script Example

Workflow

Workflow

- ~~Symbolication~~
- ~~PLCrashReporter~~
- ~~How to obtain crash log manually~~
- ~~Methods of analyzing crash log~~
- ~~uuid~~
- ~~Exception Types~~

Workflow

symbolicatecrash xxx.ips yyy.app.dsym > result.crash

Workflow

symbolicatecrash xxx.ips yyy.app.dsym > result.crash

in: xxx.ips && yyy.app.dsym

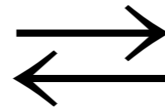
out: result.crash

Workflow



10.10.26.78

**package
info**

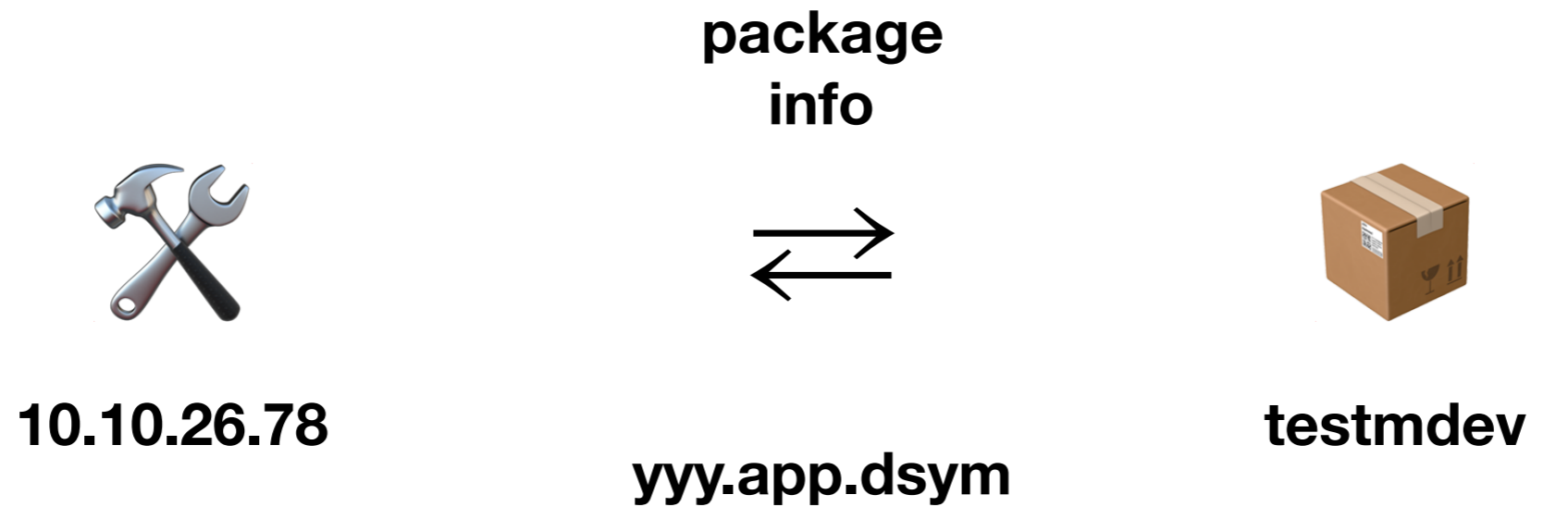


yyy.app.dsym



testmdev

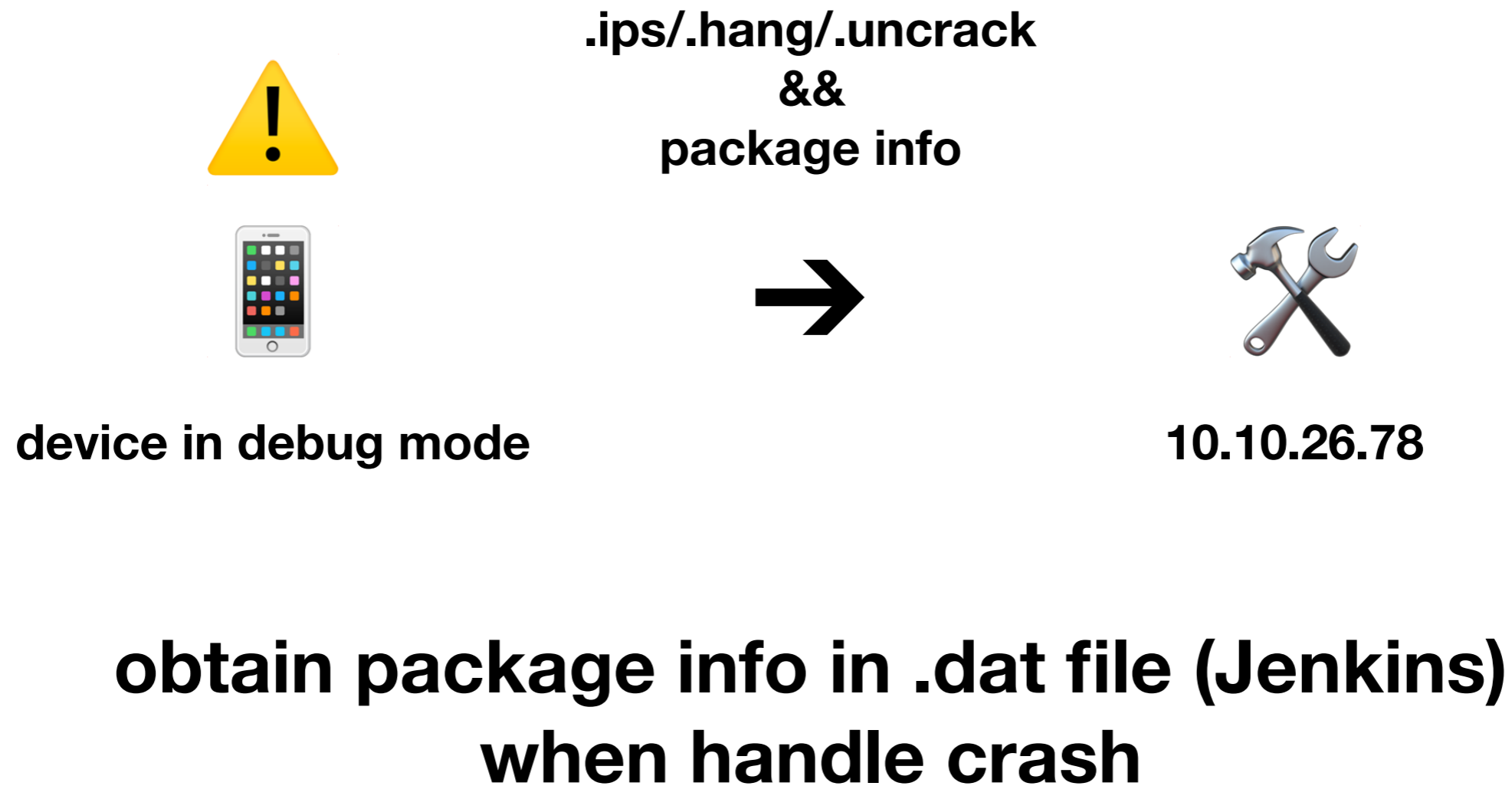
Workflow



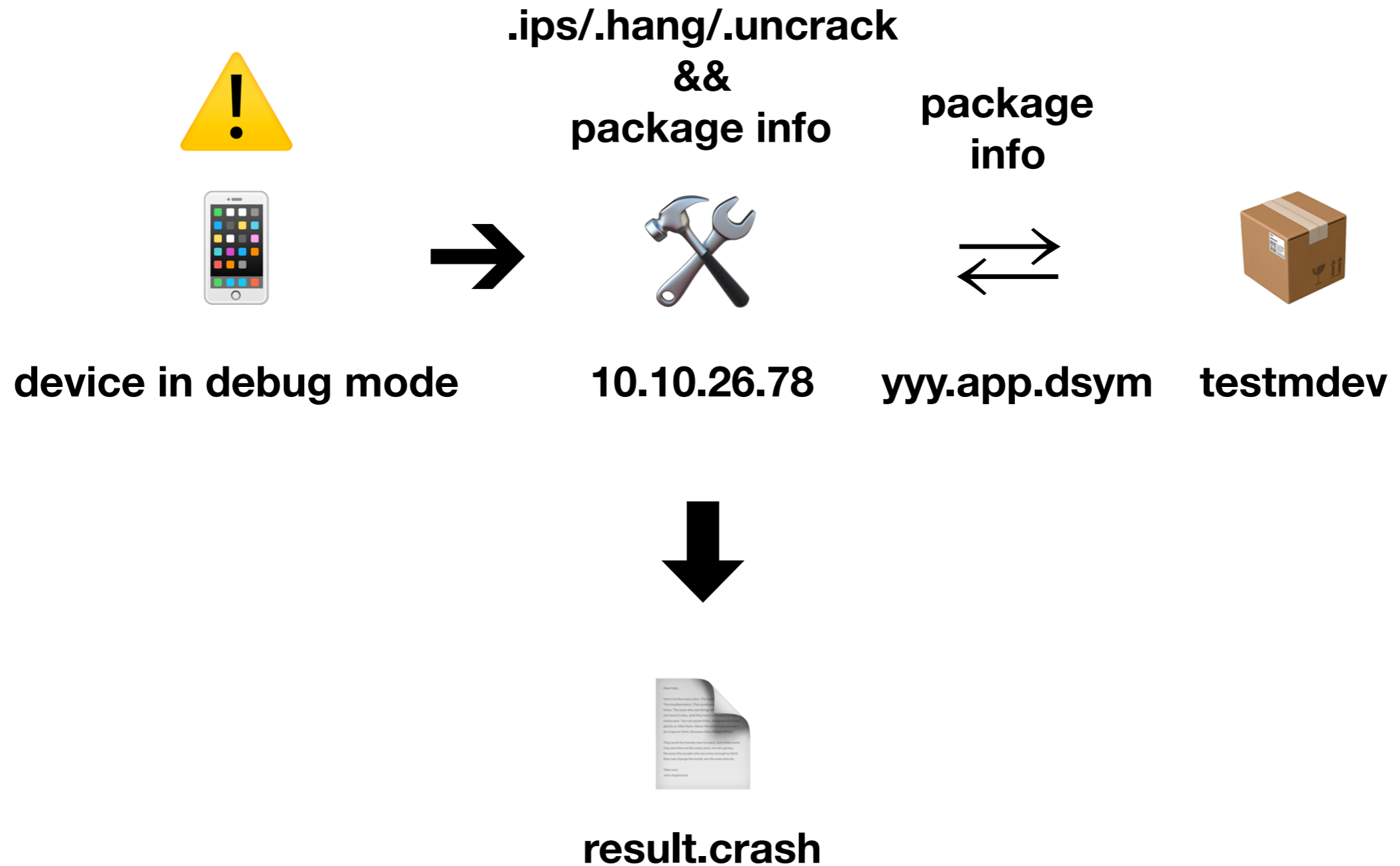
`crontab -l` `crontab -e` `crontab -r`

`*/2 * * * * sh obtainDsym.sh`

Workflow



Workflow



Script Example

- PHP → `exec("shell command",$res)` 😂
- Shell

Shell

- Text Processing
- |、grep、cut、sed、awk

Example 1

- show commits desc by time
- cut

Example 2

- replace 'nop' with 'rdy' in \$index line
- sed

Example 3

- show specific error info in result.crash
- |、grep、head、awk

Tips

- iOS 10.3 or later
 - Settings > Privacy > Analytics. Then tap Share iPhone & Watch Analytics.
- iOS 8 to iOS 10.2
 - Settings > Privacy > Diagnostics & Usage and select Automatically Send

Q&A

Thanks.