

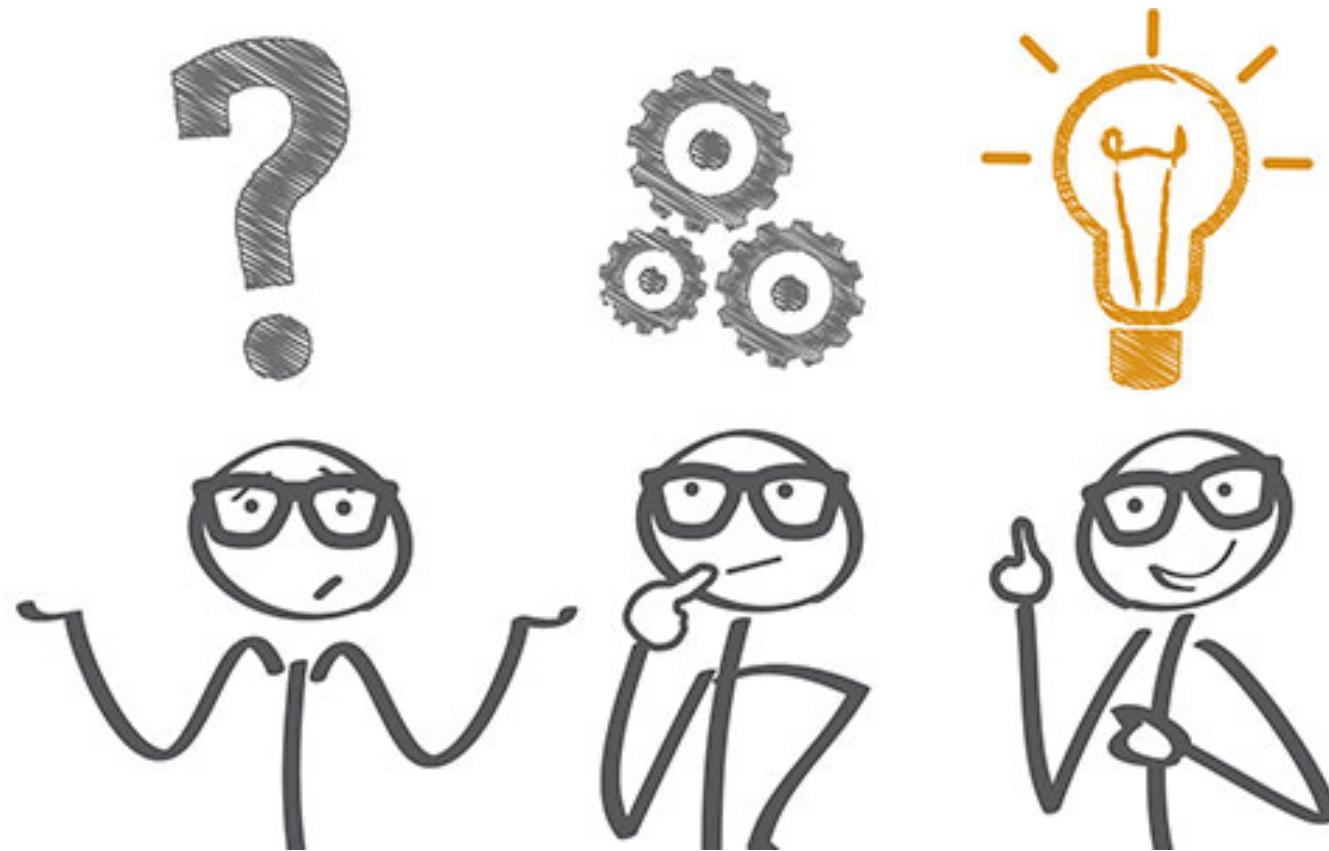
Continuous integration

Cristian Cotes

~~21/12/2016~~

22/12/2016

El problema



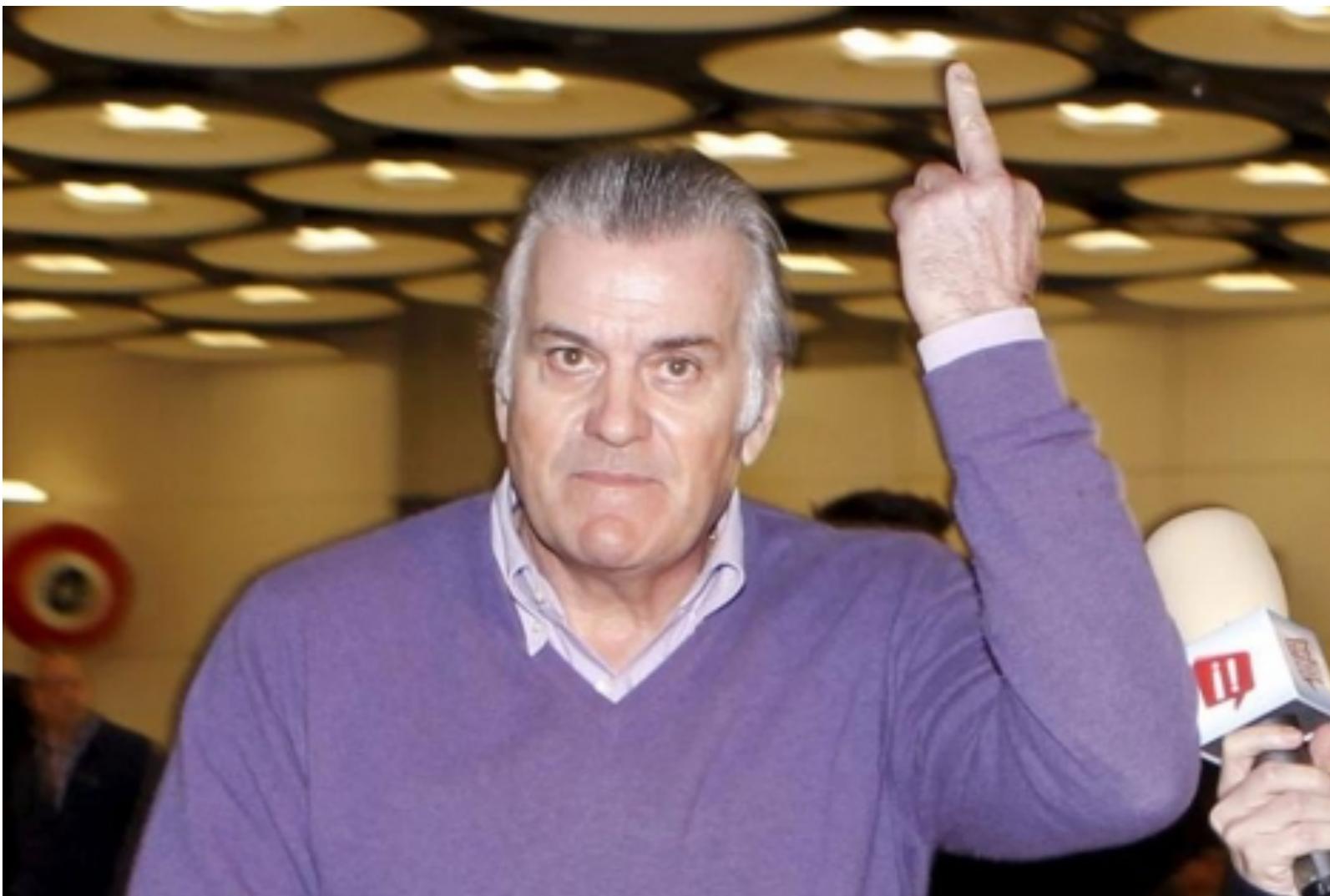
Desde 1991...

Todo empieza con...



Divide y vencerás





Divide e integrarás



Objetivos de la integración continua

- Feedback rápido
- Fail fast
- Minimizar costes de integración

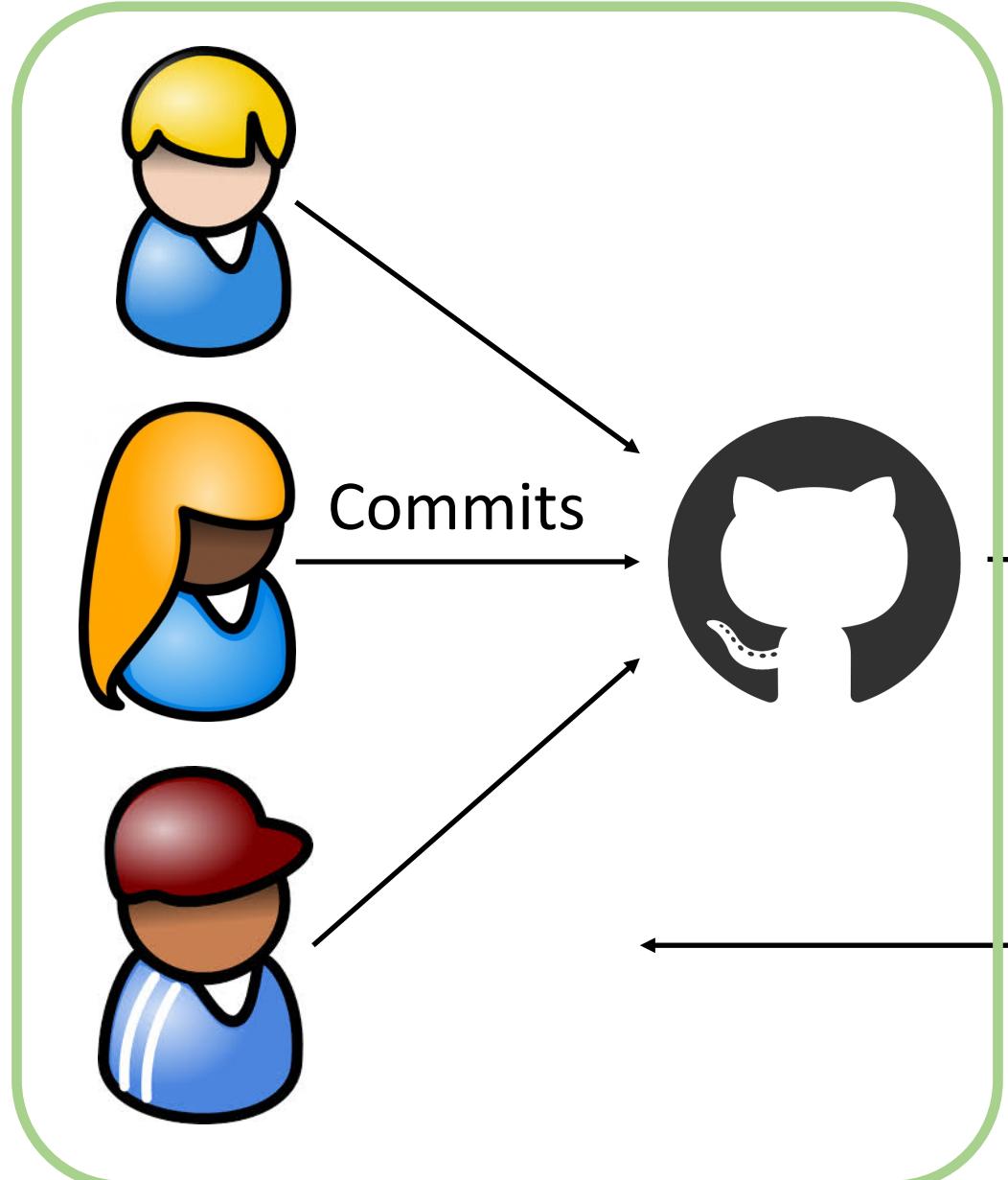
El proceso



¿CI build?

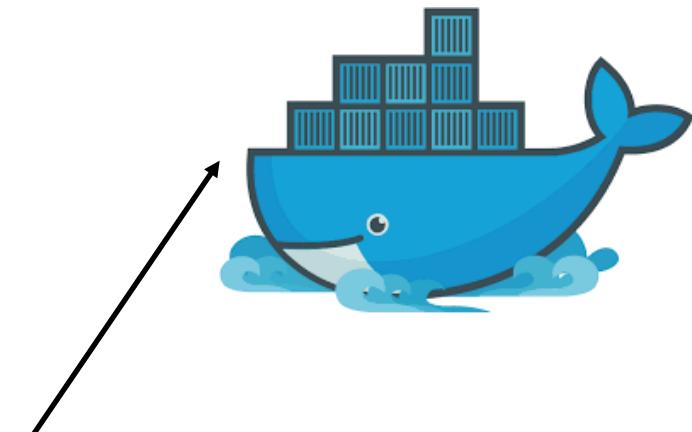
Build Ingredients

- Compilation
- Test execution
- Database integration
- Code inspection
- Automated deployment
- Documentation generation

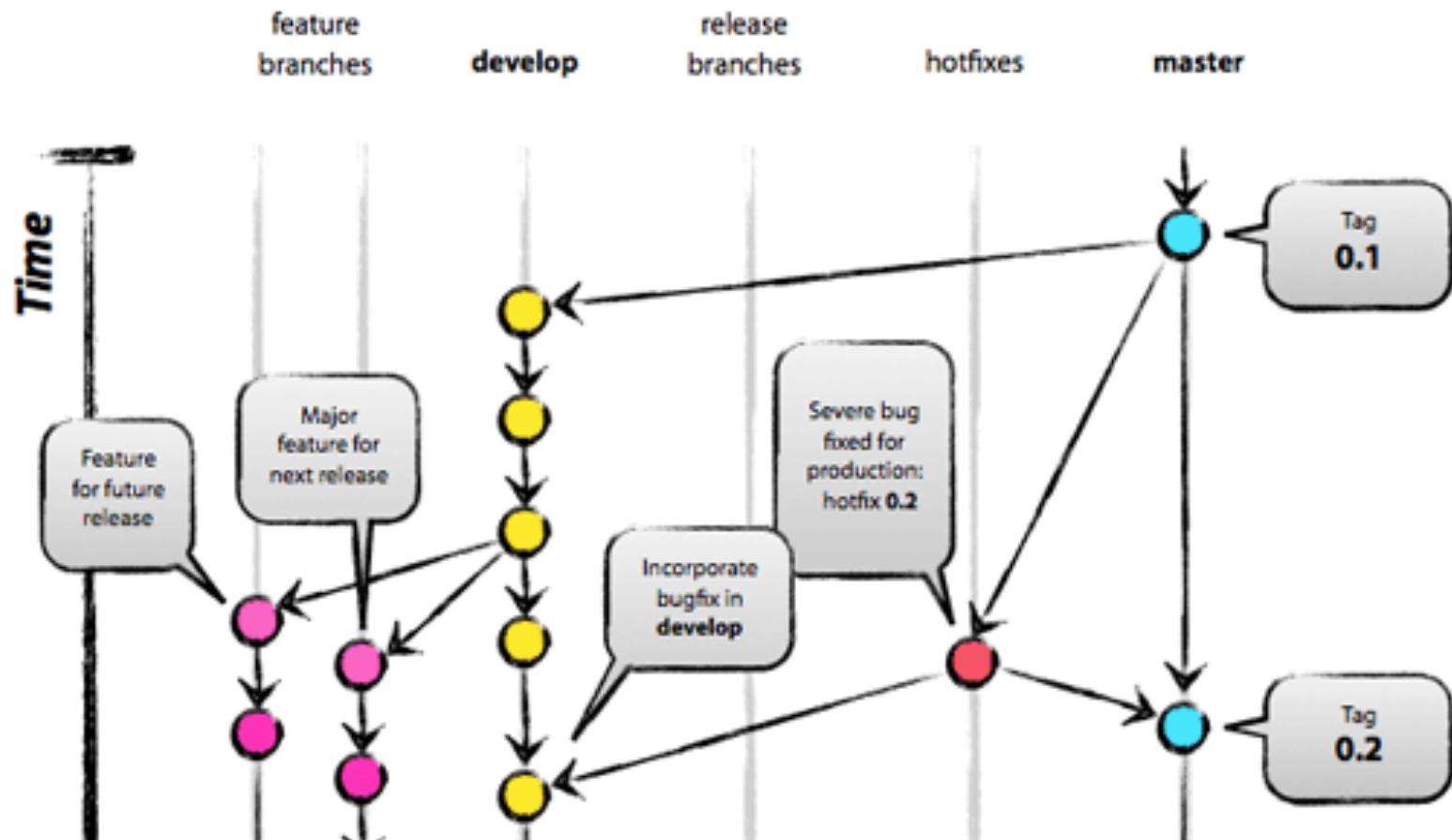


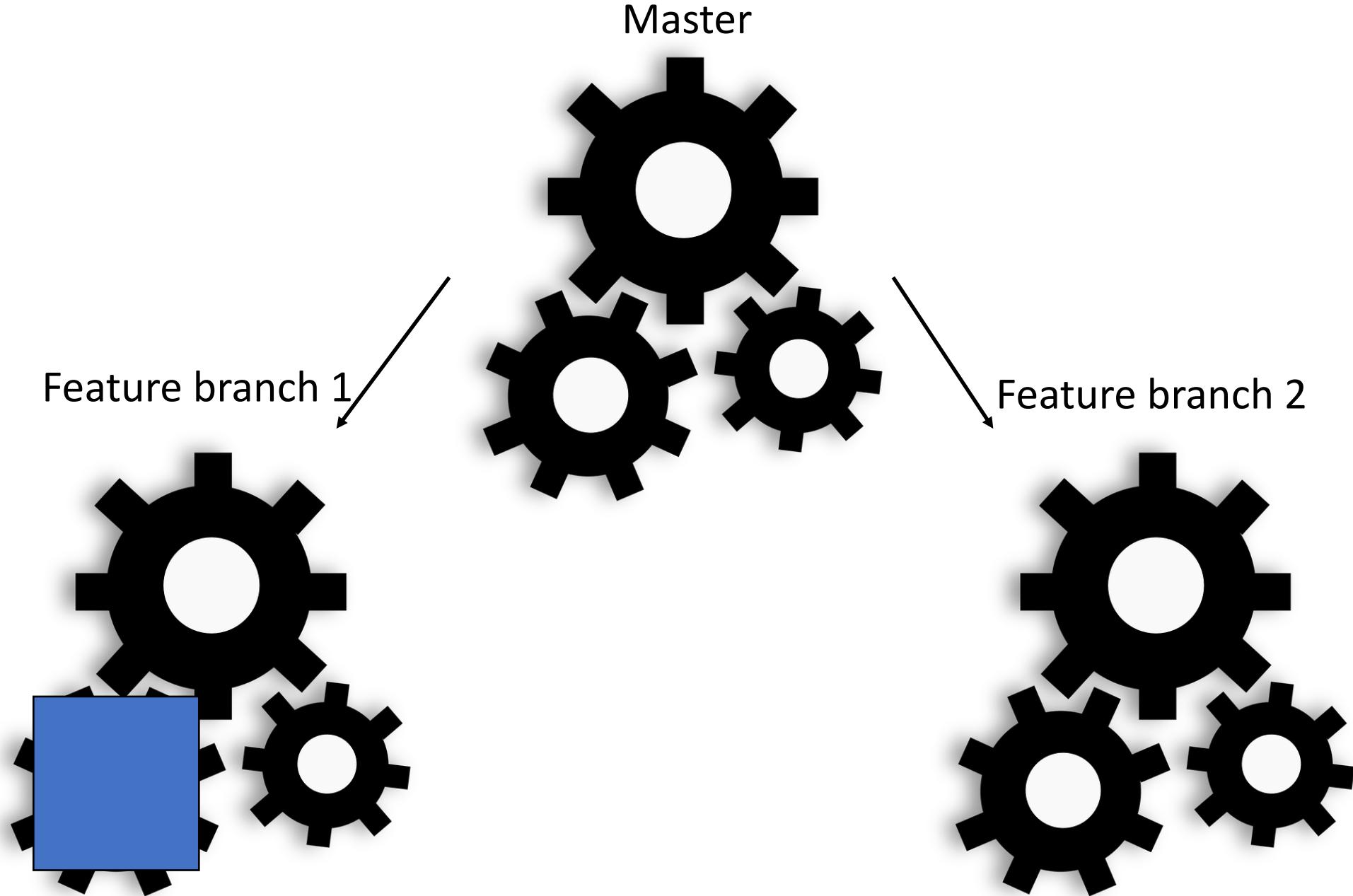
Build

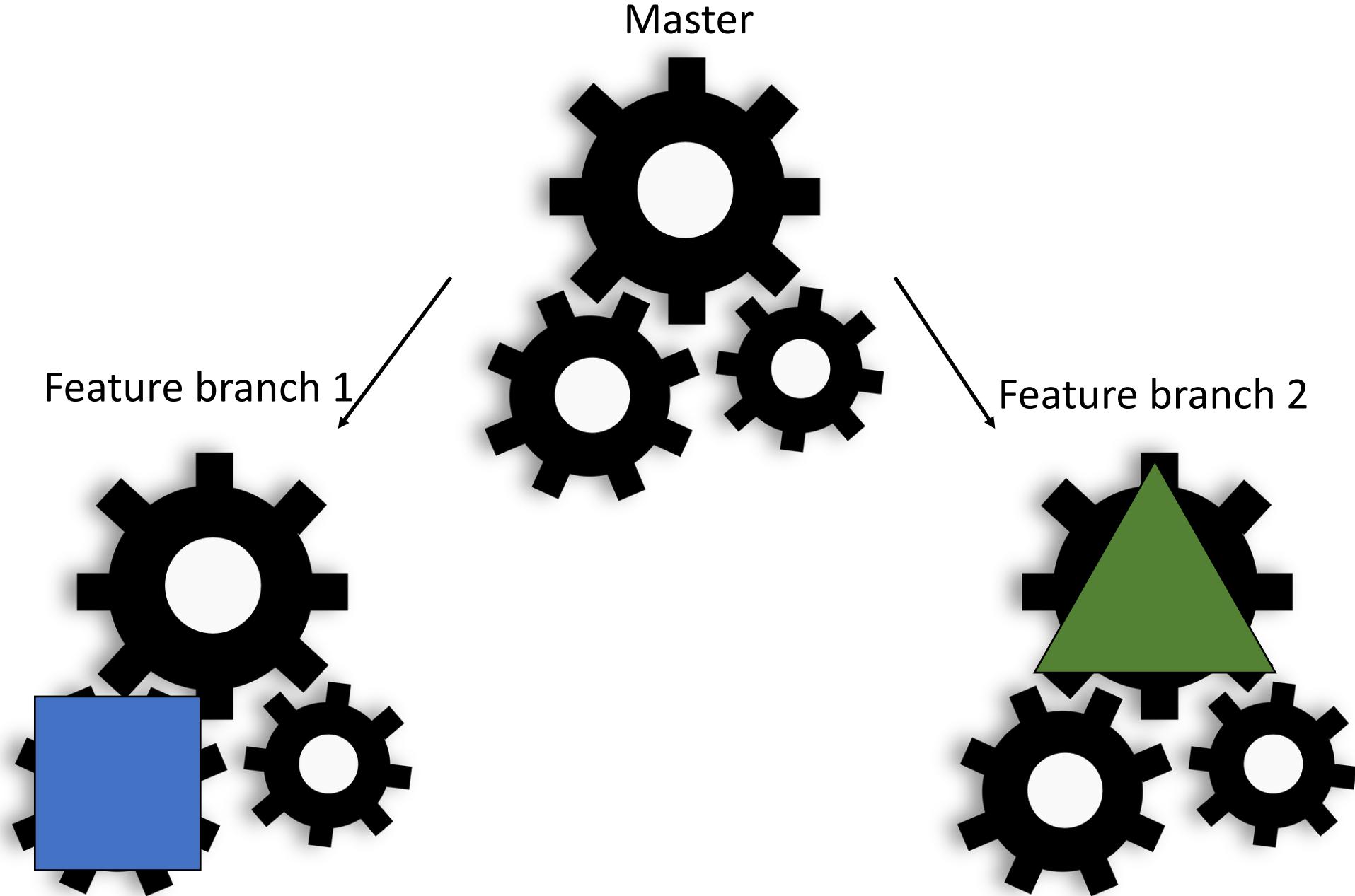
Feedback

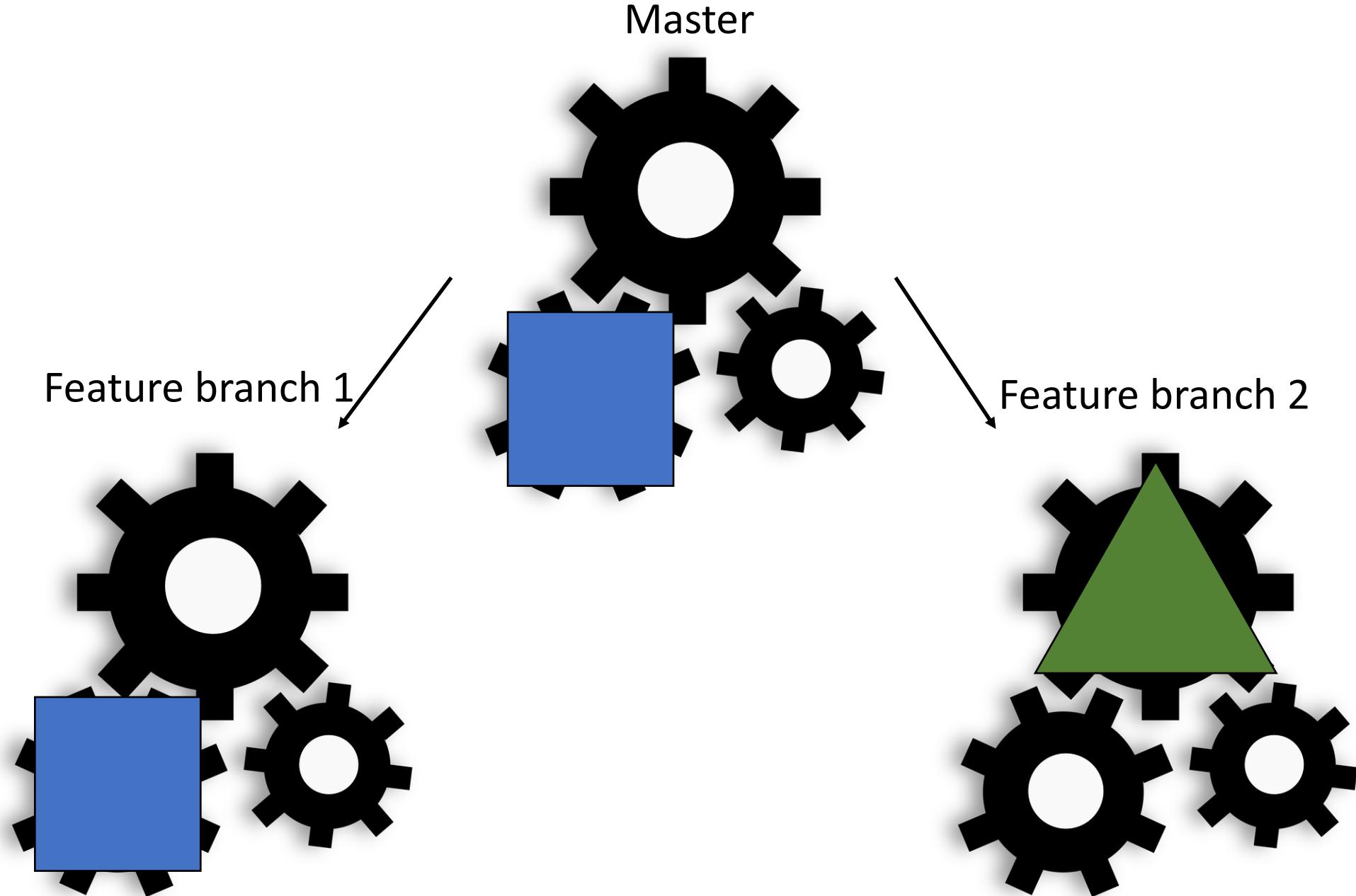


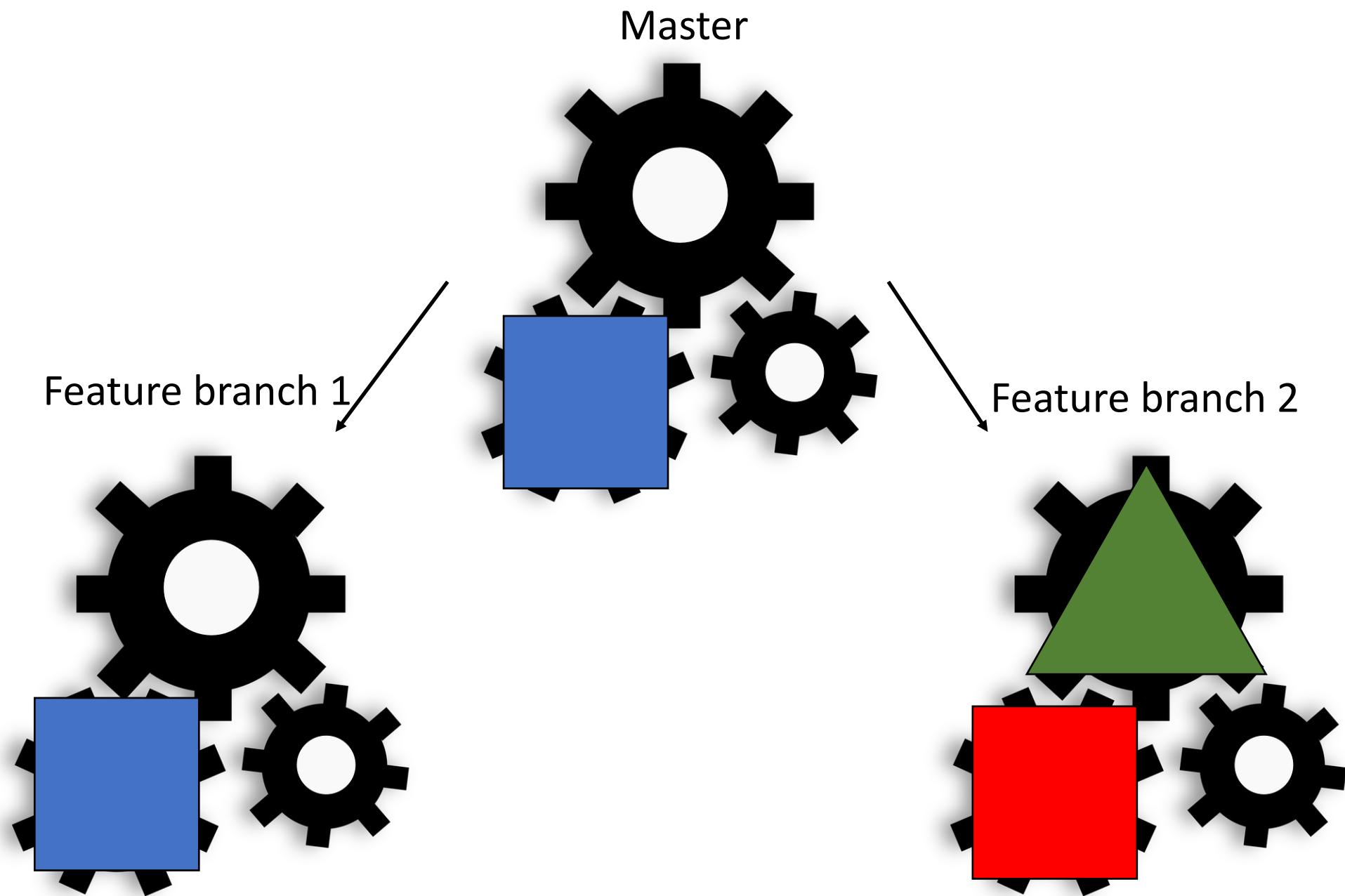
Las ramas no son buenas







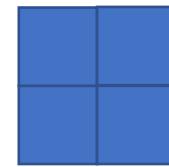
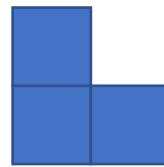




¿Cómo trabajar en master?

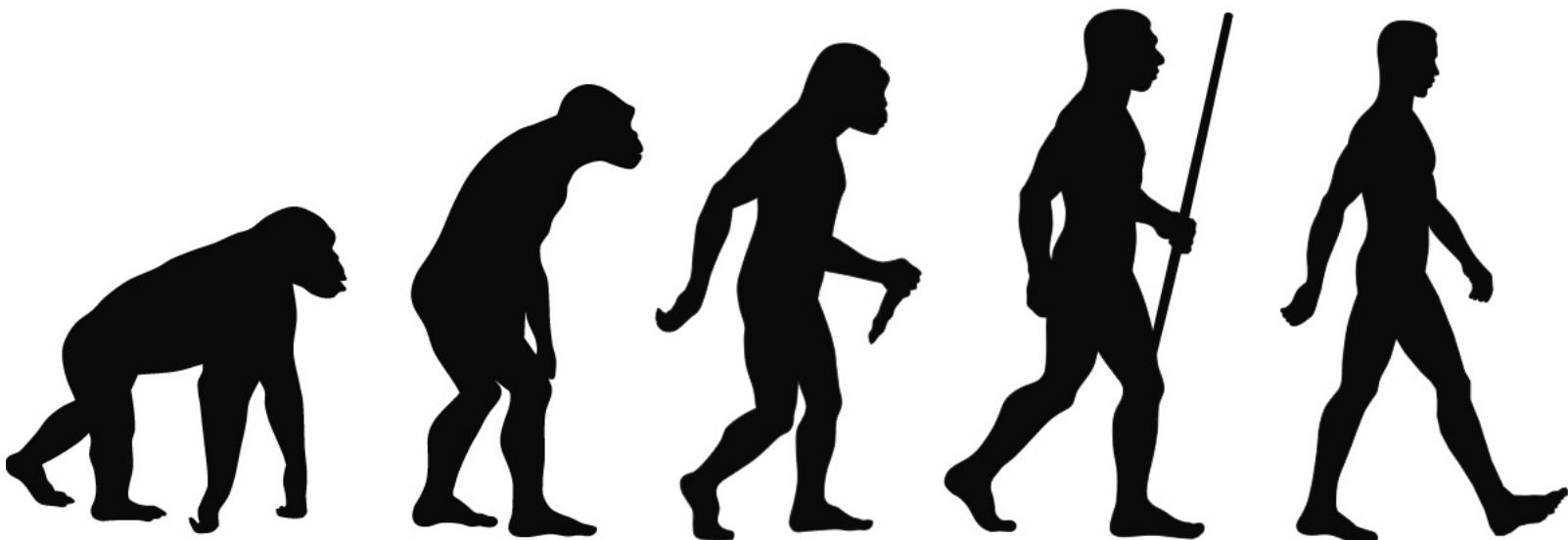
- Desarrollo evolutivo
- Branch by abstraction
- Feature toggle

Desarrollo evolutivo

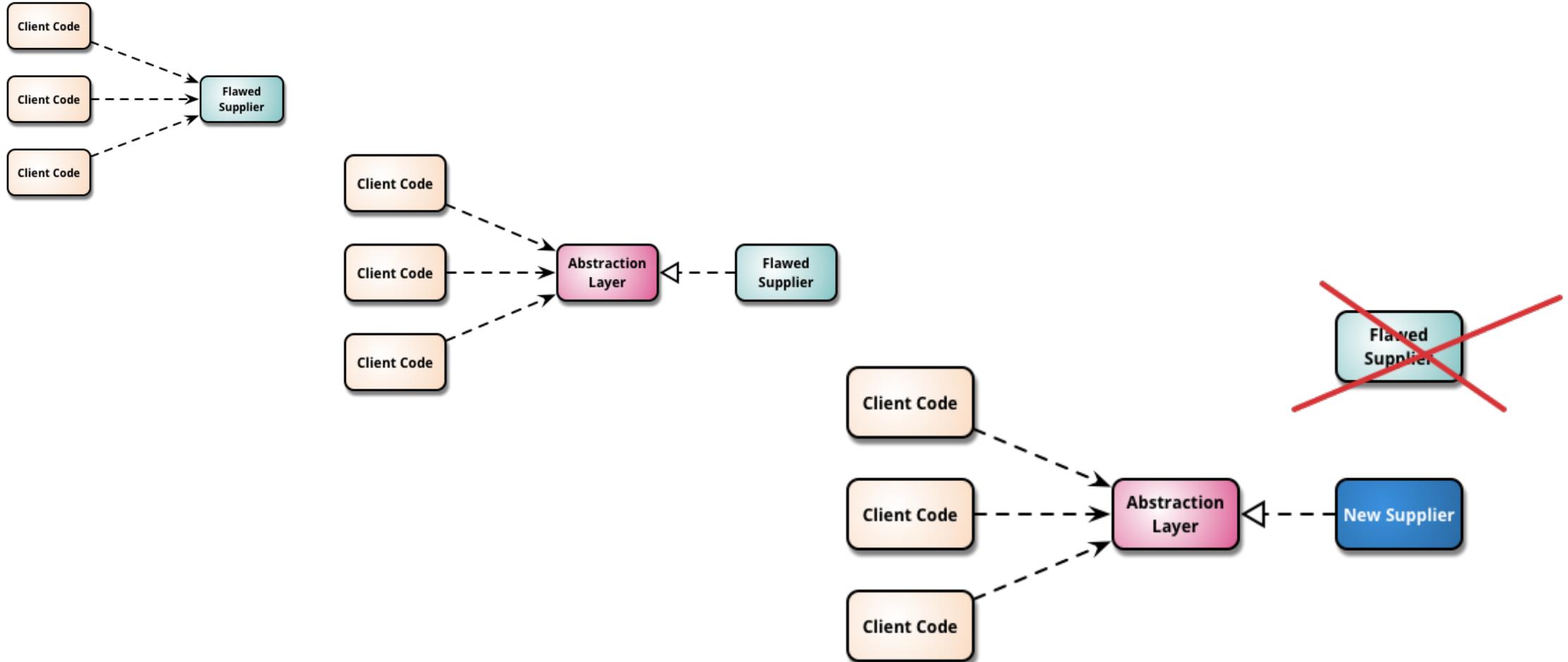


Nueva feature!

Desarrollo evolutivo

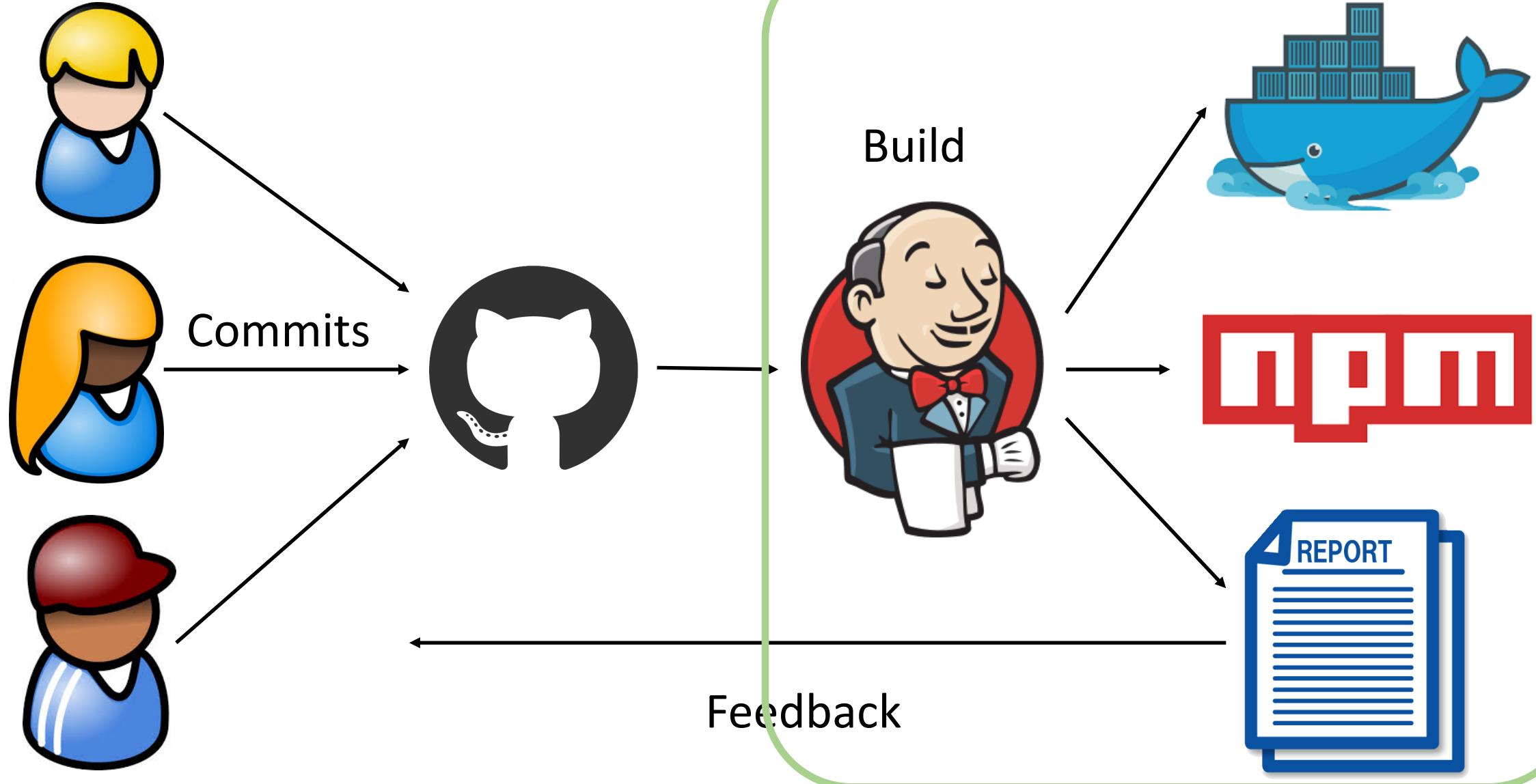


Branch by abstraction



Feature toggle

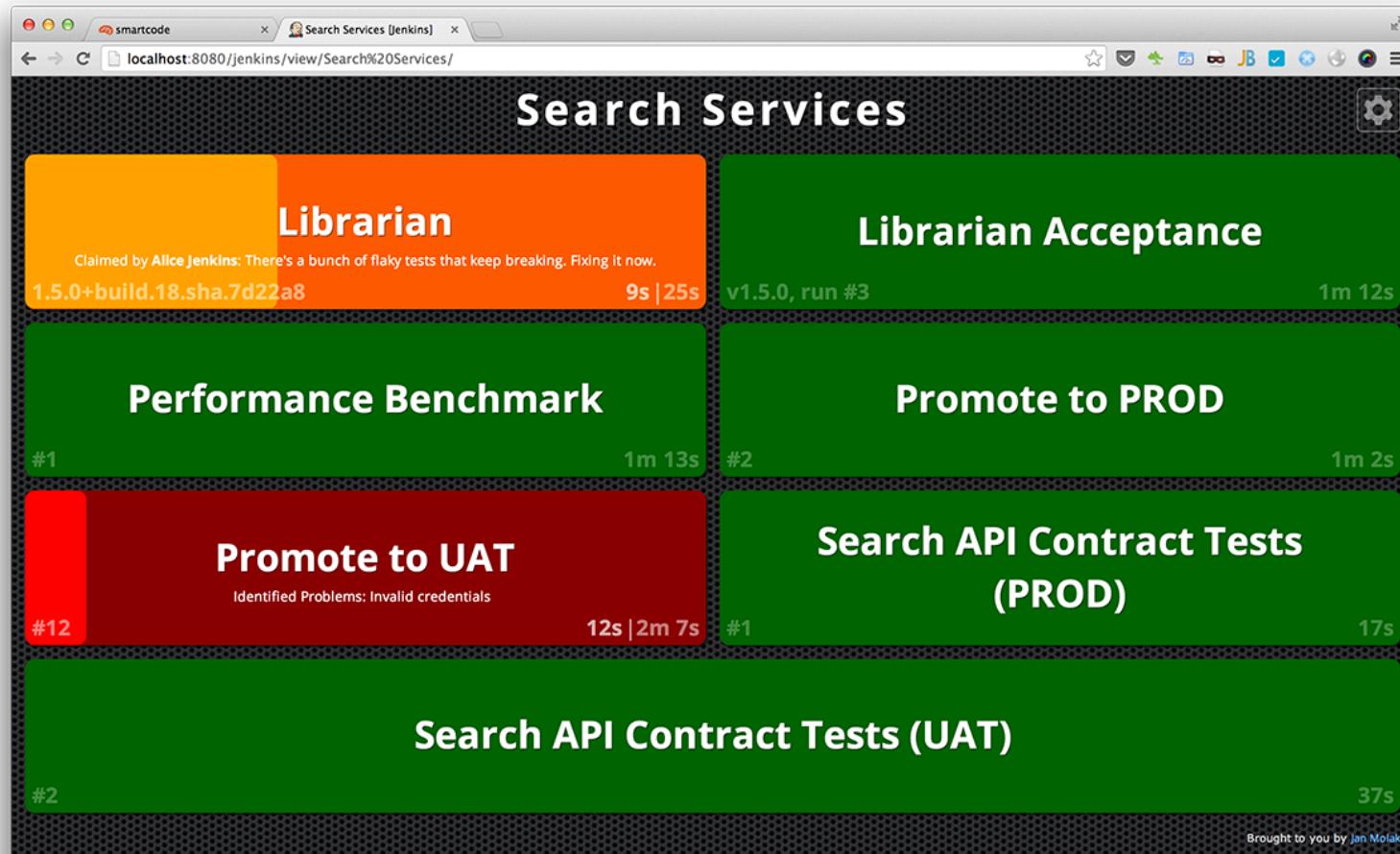
```
function reticulateSplines(){
    if( featureEnabled("use-new-SR-algorithm") ){
        return enhancedSplineReticulation();
    }else{
        return oldFashionedSplineReticulation();
    }
}
```



CI Server

- El CI es de todos
- Automatiza y cuando hayas acabado, vuelve a automatizar.
- Publica librerias, dockers...
- Jobs autogenerados y versionados.

Feedback!!



Conclusiones

- CI es un proceso que minimiza el coste de integración haciendo que todos los desarrolladores integren su trabajo varias veces al día.
- Pruébalo!
- Siguientes pasos: continuous delivery y continuous deployment.

Referencias

- <http://martinfowler.com/articles/continuousIntegration.html>
- <http://martinfowler.com/bliki/BranchByAbstraction.html>
- <http://martinfowler.com/articles/feature-toggles.html>
- <http://martinfowler.com/bliki/FeatureBranch.html>

Continuous integration

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