



# WHAT IS CI/CD

explained with  
analogy



@codechips



@86.takahiro.9

@codechips

Cody

popupdev04@gmail.com






Lets say you are working as a  
Toy Manufacturer

I make the head  
part of the toys



@codechips

 Cody

popupdev04@gmail.com





Each person works on different parts of the Toy



I make the clothes



I make the shoes

I do the designs



I make the hands

@codechips

▶ Cody

popupdev04@gmail.com



Before Combining all the parts they need to be quality checked or else it will ruin the entire toy

Here are all the  
work/parts done this week



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Cody

popupdev04@gmail.com





And you need to combine them all perfectly  
to be able to make it available to the  
customers instantly

*I guess I messed up  
something*



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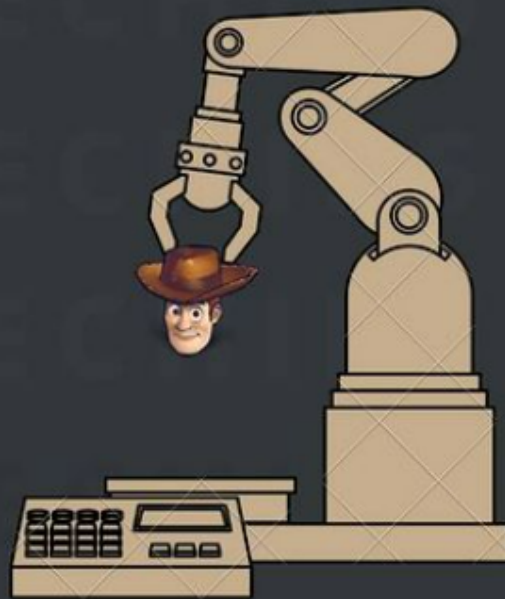
▶ Cody

popupdev04@gmail.com




That is when your CEO brought an  
Automated Machine called **CI/CD**

The employees are encouraged to input  
their single finished product frequently  
into the common automated machine



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 Cody

popupdev04@gmail.com





The machine automatically **tests** the parts, clears the bad parts, **integrates** all the good parts, seals the completed toy in **ready** to be delivered stage and also **transports** it to the consumers instantly



testing /  
quality check



integrate /  
assemble




production  
ready / seal



deploy /  
deliver



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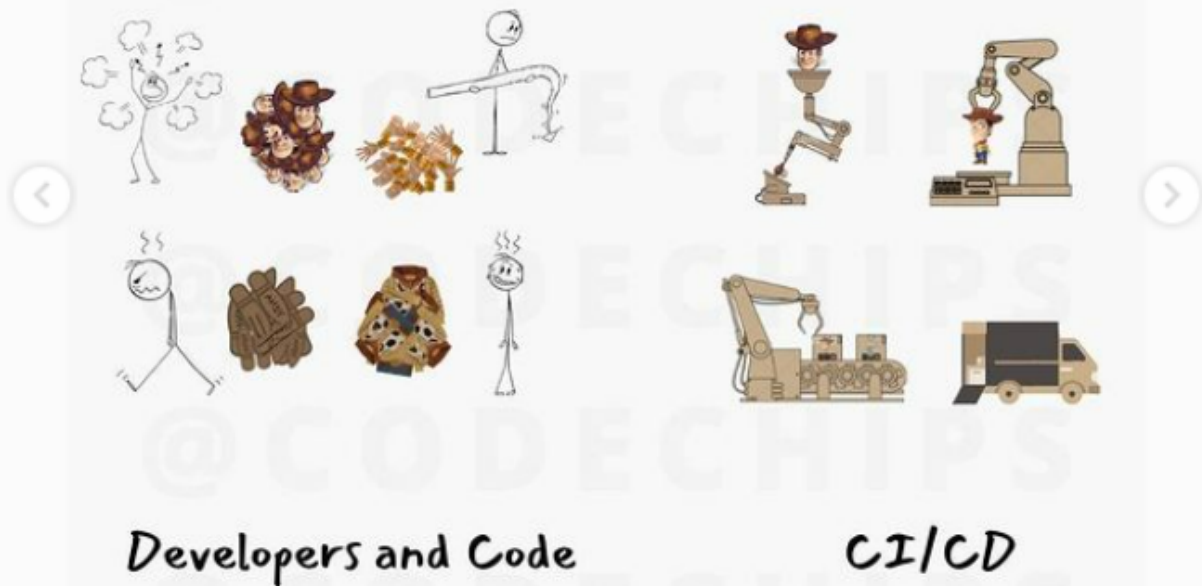
popupdev04@gmail.com








This visualizes the same  
scenerio for developers



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 Cody

popupdev04@gmail.com





When multiple developers work on different features & merge the entire code one day, it becomes exhausting with conflicts

With **Continuous Integration** practice, the code is merged frequently to the shared repository going through automated tests.


**Continuous Delivery** makes the code production ready and **Continuous Deployment** makes the working software available to the end-users instantly



#### CI/CD Pipeline



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 Cody

popupdev04@gmail.com

