okay so to get started let's make sure that we're even in the right place and doing the right thing what I mean is there's a difference between the coding languages for front-end and back-end okay so let's just make sure that we have is clear all right front-end when you hear the word front-end like front end development or I'm gonna hire a front-end developer what they're saying is they're hiring someone to work on how things look in the site okay so that's the important part how things look and that involves the images the content the structure of the site okay it's a lot of words right now I get it just kind of go through with this and then we'll apply it to some examples but for now the takeaway is how things look the images the content the structure right and that's important because for those features or things you want to do there's only gonna be three languages alright that actually I'm making it easy for you there's only three languages that you're gonna need to know for front-end there won't ever be a fourth or a fifth at its basic most basic it is HTML CSS and JavaScript those are the three front-end languages okay so how does that differ from the backend well the backend now that is gonna be how things work and you may think of this as the logic or the data surrounding a site essentially any site what a database is gonna need some back-end do it right those are just the rules that's how it works and when we involve how things work and logic and users and making credit card payments all this kind of data intensive you know stuff the coding languages for that is going to be Ruby Python PHP Java etc etc etc right these are the the back-end languages right this is probably all the languages you know if you've heard of another one it's probably on this list somewhere okay you know the good thing to take note of is as I said the front-end is only those three languages and the back end you generally only choose one back end language right so for any website you're gonna have HTML CSS in JavaScript and Ruby right or HTML CSS and JavaScript and PHP but you don't usually choose Ruby Python PHP and Java all on one site Chrome and also another question that I get this quite often from students or they confuse you know Java and JavaScript and I just wanna let you know that they are totally different totally different languages JavaScript as you see a front-end language and it's kind of like you know ham and hamster right how like we kind of share the same part of the word but really don't have anything to do with each other yeah it's like that so for our purposes of doing this front-end class HTML CSS and JavaScript that's the important thing to understand and so now I want to show you a way that we can apply what we just learned to an actual site okay so have you ever been in a Zappos before probably it's this place where you can come and buy some shoes or apparently dresses or other thing nice right whatevs you get the point so you come here and I'm gonna show you what is the difference between front-end and back-end but with real life examples okay so humor me here for a second I'm gonna be just just the customer of the site and I'm gonna walk through this site as a user right and I'm gonna start just like observing all right so I'm alright I'm here I'm shopping right and I'm observing I see some shoes see some text here maybe hello maybe I'll click on this here all right great some shoes I could zoom nice boom boom I can choose my size these are weird sizes but it works okay sweet five five this is for children all right so uh I got my size I got it in the cart proceed to checkout boom okay okay see what I just said they're a few steps things that we do every single day on the internet right you just click around you purchase something you buy something whatever well um the reason I'm doing this is because I want to show you what is the difference between the front I'm in the back end so the front end is everything and how things look right everything that we saw it's the text it's the images right all of this stuff the colors this is all the front end and I can go back here all the front ends all the front end and now here's the thing you only ever see the front end of a website you only ever see the front end of a website you don't see the back end let me show you what I mean so what I made here is a little wireframe and I'm going to go through and illustrate which is the front end and which is the back end so like I said everything we saw is the front end but what really happened when you were on that homepage and when I clicked on the shoe what really happened is it took me to this back-end page now you didn't see it right we didn't see anything but it just happened so quickly the backend page is made up of one language in this case it's PHP and just like a file on your computer like a dot docx or a dot mp3 this is just a file on your computer with a dot PHP extension and that says hey this file has some some programming in it that is written in PHP just a bunch of steps really that go up you know from the top to the bottom and what these steps might say for example is you know maybe it's like number one is this person a user of the site zappos.com right number two if they are send them to the cart page simple stuff like that well here's what happens when it needs to check number one it says hey number one is this person a user it goes and looks in the database the database is in that back-end part and it's in the database but in first off a database isn't really anything to worry about it's really kind of like a glorified excel sheet is what I think of it it's columns and rows some data laid out in there so this code is saying hey look in that excel sheet database and you see Chris's name in there and then it goes oh yeah I see Chris's name in there and then the database goes back to the PHP and says yep everything's good send him to the car let him ship out you know let him get his shoes awesome ok let's take another different scenario do that does that make sense though right front-end back-end in another scenario you know perhaps somebody who comes that's not in that but you know someone called Judd comes right my friend John comes and he comes he clicks on the homepage and it goes to the PHP in the backend and then they don't find his name in that case the PHP it's like the brain right it's gonna control and say hey you know what let's not let him ship out we don't have a shipping information or his credit card information but instead we'll make a new page we'll send him to this register page and then we create that register page and then it goes to the car yadda yadda yadda so those are some tips for understanding the difference between front-end and back-end how things look versus how things work