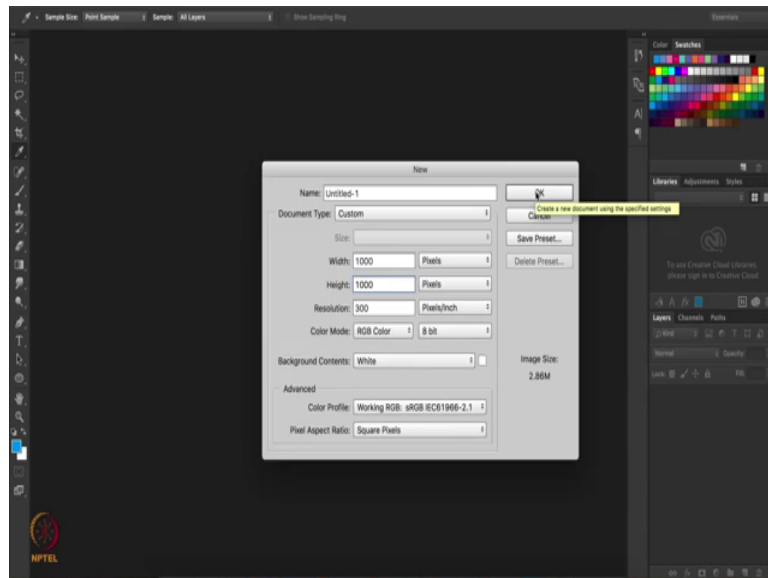**Introduction to Human Computer Interaction**
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Department of Computer Science and Engineering
Indian Institute of Technology, Madras

Lecture – 06
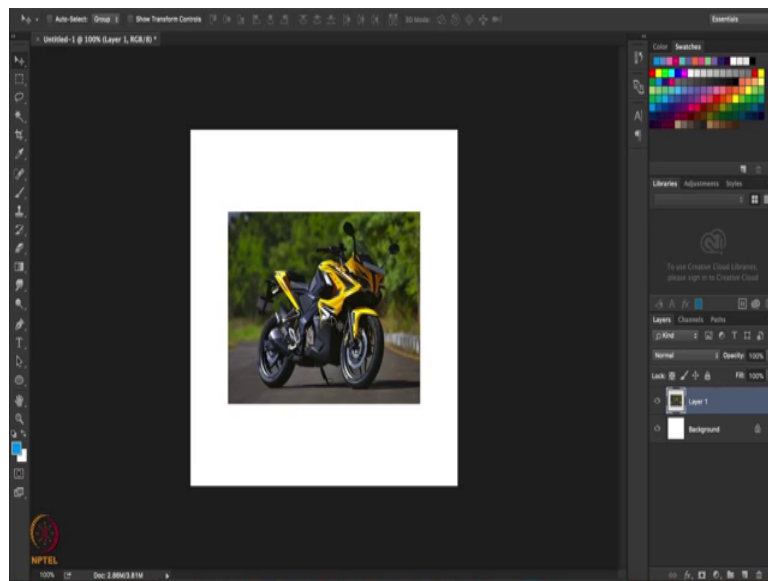**Tutorial on Photoshop**

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Hello everyone, today we will be learning about photoshop and how to use photoshop for creating web graphics and designing user interfaces. In this part of the video, I will be explaining you some of the commonly used tools from photoshop. Now we will not be going into too much detail; as photoshop is being used in various fields like photography, graphic designing, digital painting as well as UI designing.

So, there are some tools which are actually not used in UI designing, but are more often used in all these other fields. So, this video will concern with only those tools that you will be needing to design a user interface. In this video we are going to use Photoshop CC, which is one of the versions of photoshop; so, let us get started. So, we will just start by creating a new project click on file click on new. So, as you can see it asks for the options of creating a canvas. So, Photoshop CC comes with a lot of other presets for creating like a web UI or a mobile app design or a poster or international paper.

So, these are basically there because they have a predetermined height width resolution color background all of these already preset. So, we do not really have to spend time on

making the canvas on our own. So, for now we are just going to create our own canvas and we will create hidden pixels. That is just like this 1000 by 1000 pixels and you can select different options of if for now we will just keep it pixel range. And you can actually save this preset as well. So, if you want to use the same type of canvas in your project and you want to create different screens you can save this preset. So, that every time you create a screen you can use this preset.

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So, I just click on. And this is exactly how I usually editing interface of photoshop looks like so this white area is your canvas. the panel on your left shows all the tools that you can use in photoshop. So, your different tools which we will be discussing, the pattern or in the top actually shows the properties of these tools.
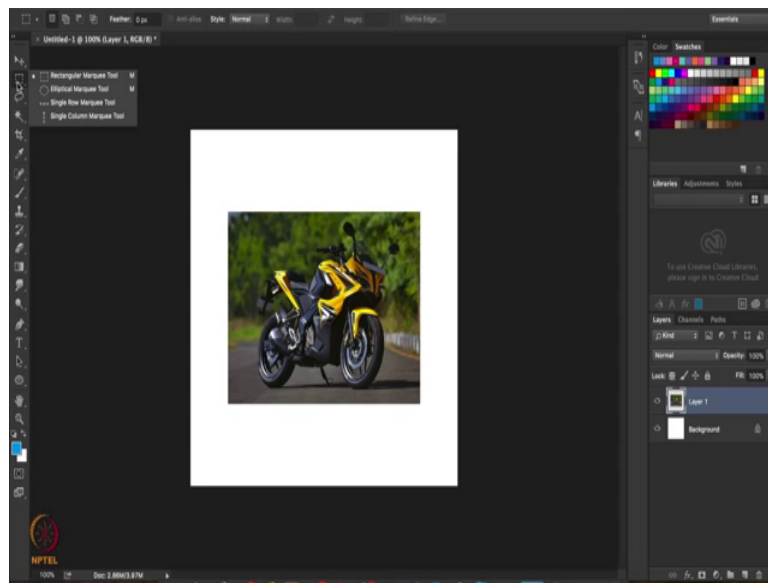
So, for example, if you use like a text tool and if you want to change the shape the font size or you want to change the font, you can use the top panel. So, these are the more basic properties that you can change and on your right side over here are more advanced options that we will be discovering as we go through.

So, let us just bring an image. let us take a bikes image and place it on the canvas. So, as you can see when I added the image to the canvas, it actually gets added as a layer over here. So, the use of this portion is that you can actually high hide or display the layer, you can delete the layer it just becomes like it everything that you add on the campus if it is added as a layer one on top of the other. So, you can actually do order these layers as

well so we I am going to show you the reordering later on. So, let us just start by discovering all these tools. So, as you can see the first one is the move tool, which we are actually using right now which is basically helping this move to any party to canvass any object that we want to move ok.

Then the second one is your marquee tool. So, the marquee tool is actually used to select any portion of an image or any portion on the can canvas.
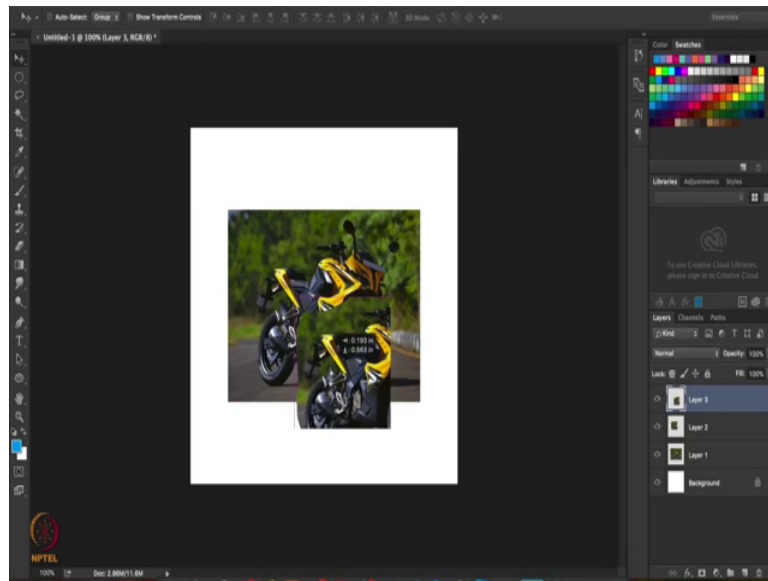
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So, if you long press on the tool you can actually get more options in this. So, for example, if the can be the marquee tool if you want to use this we are just simply going to, drag it and see it is creating like a rectangle. And if we press shift on this it will actually make a square selection. So now, it is making the square selection if I remove shift it is going to make a rectangle selection.

So, so now, once you selected this we can just copy paste this and that becomes our second layer. So, we can use the move tool to move this layer right? So, and just like this you have all the other options for example, you have an elliptical one, which is going to help you make something like an ellipse or if you press shift it is going to help you make a square circle selection. So, that is it and if you want to unselect it you can just simply click on control d and it is get unselected ok.
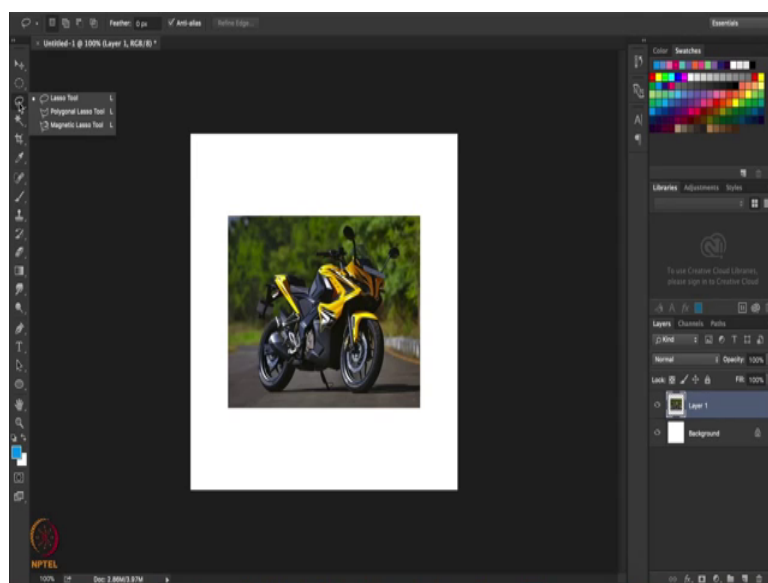
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Moving on to the next tool this is called the lasso tool. So, the lasso tool is actually used for free selection so, you can just move your hand freely around the image and wherever you stop this becomes your clothes fall freeform selection. You can simply control me con and that is just got added as a another layer.
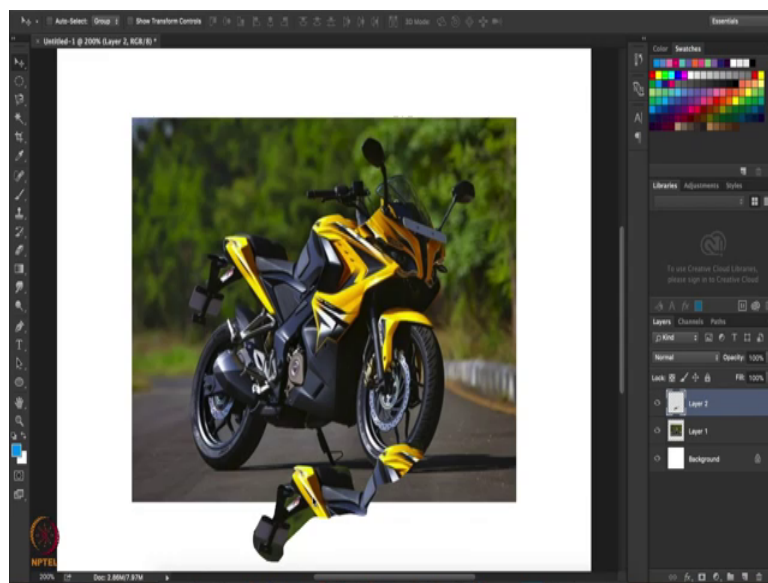
So, I am just going to remove the layers to white confusion, you can just click on the layer and that is delete.

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So, just like the marquee tool if you long press this tool or if you just right click on it; you will you will find other options. So, the second option is a polygonal lasso tool. So, in this it actually creates lines, so you can just create like a every time you just click and drag and it creates a polygon selection. And the other one is slightly more precise it is the magnetic lasso tool. So, if you just click on one portion, I am just going to increase the size of the screen ye.
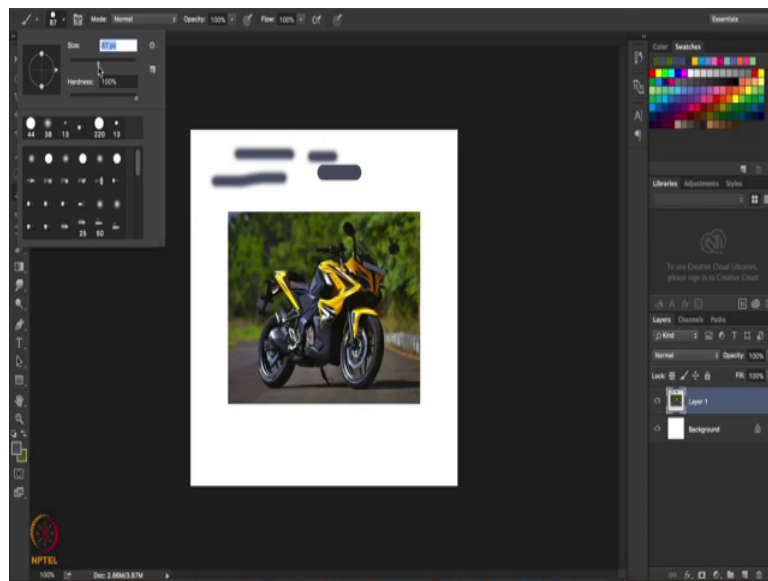
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So, just click one portion and then you keep on dragging this. So, as you can see it is able to identify the images of the edges of the image, right? And as you can see it is able to identify similar looking pixels and it is just able to identify the edges. So, once I selected I press enter and so, this is a much more precise way of making a selection right?

So, if I create this becomes a layer I can use the move one to, it is just a more precise way of selecting, but there is even a more precise way of making selection that we will be discovering as we just go through all the tools. So, our next tool that we are going to be discussing is the crop tool. So, the crop tool is very simple as just any other crop tool if you make the selection the image gets cropped.

So, if I just press enter this image will be a tool that we will be using is an eye drop tool. So, the eyedropper tool is just simply to pick the colors from an image or from whatever is present on the canvas. So, for example, if I want to take this black color or gray color; I just click on it and it is simply selected as the foreground color, and the color behind it
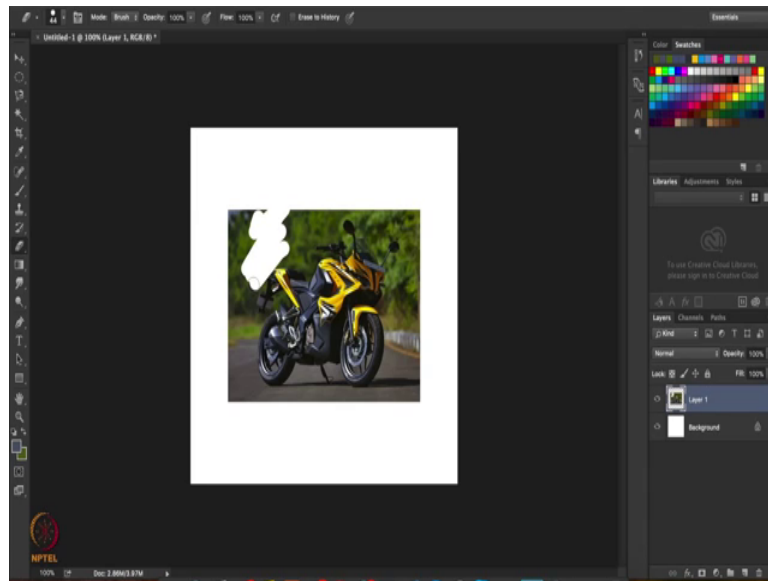
is called the background color. So, for example, if I want the green color I just sorry I just press alt and then click on it and it becomes my background color ok. So, you will be you using these foreground and background colors, while if you want to use the paintbrush tool or just to fill up any image it is it is because if you want to pick the color from a particular image this is a very good tool that you could be using like if for example, while making a rap.
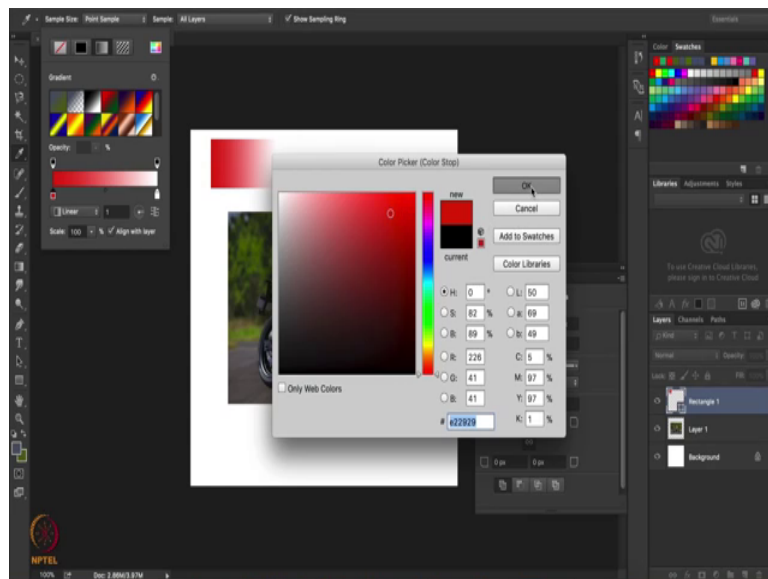
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So, the next tool that we will use is the. So, this is the brush tool it works just like any other brush tool you can just make strokes, you can use different types of stroke this is a more sharper stroke as you can see and you can increase this size of the stroke. So, and if you want to go back multiple steps like undo multiple steps that you have already taken you just click on alt control and Z. And for the mac users you can use alt command and V ok. So, it can go back to like 50 steps. So, the next tool is the eraser tool.

Eraser tool is again you just drag it over the image and you can erase any portion right?

So, the next tool is the gradient tool. So, like the gradient is actually a combination of 2 or more colors. So, for example, I have been demonstrated using the shape tool, so shape tool is just to create any type of shape you have different options. So, for example, I am going to create a lit candle over here and. So, this is right now filled with this color I can change this so, this basically denotes that no color should be used to fill this. So, like any solid color you can use 2 a green, red anything or you can create a gradient. So, this is as

you can see it is a combination of 2 colors I can change the color by double clicking on it for example, this could be a combination of red and white. I can actually add more types of gradients to it, so if I just simply click on this I get another one over here and I can drag it to and I can actually show you using a different color ok.

So now I am just double clicked on it and I am going to select a blue color. And as you can see another color is added on the gradient and I can simply drag it, to change the way the gradient makes the ship besides just drag it very close to the other stop worth going to make a very drastic transition. So, you would want to take care of that while you are creating a gradient, but it is up to you that is ok.
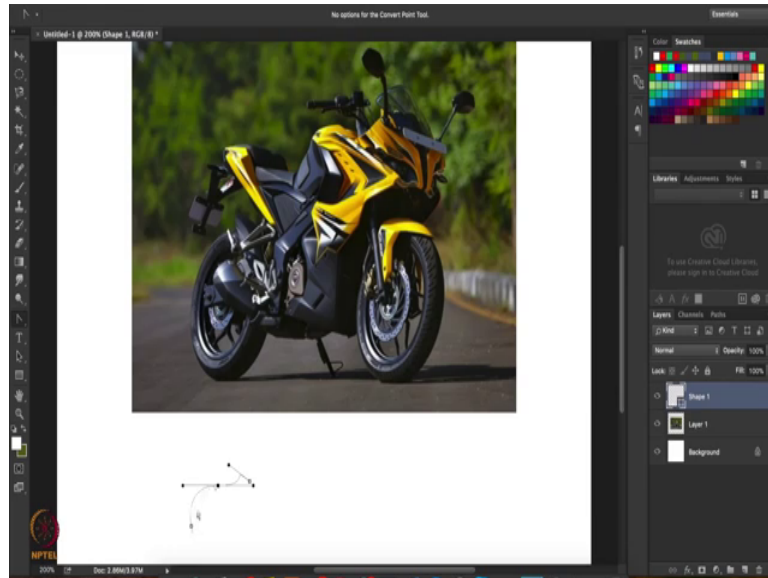
So, now we are just going to remove this layer. And the next tool that we will be discovering is the pen tool. So, pen tool is actually used to make a more precise selection that we were talking about earlier in this video. So, I can just simply keep clicking these points and if I click shift, press shift and then click it is going to create like straight lines.

So, and if you just click on the first button it is it is first point it is going to create a closed shape. So, how this could be very useful is it could make many precise selection while on an image, I just demonstrated you want the white canvas. So, that you were able to see it we can also try it on the image. So, let us just zoom into the image and just keep making these selections. As you can see it is it is it is you can do it manually that this is what you can do it manually right? And it is just a more precise way of selecting, and one of the most important thing is that these straight lines can actually convert it into curves.

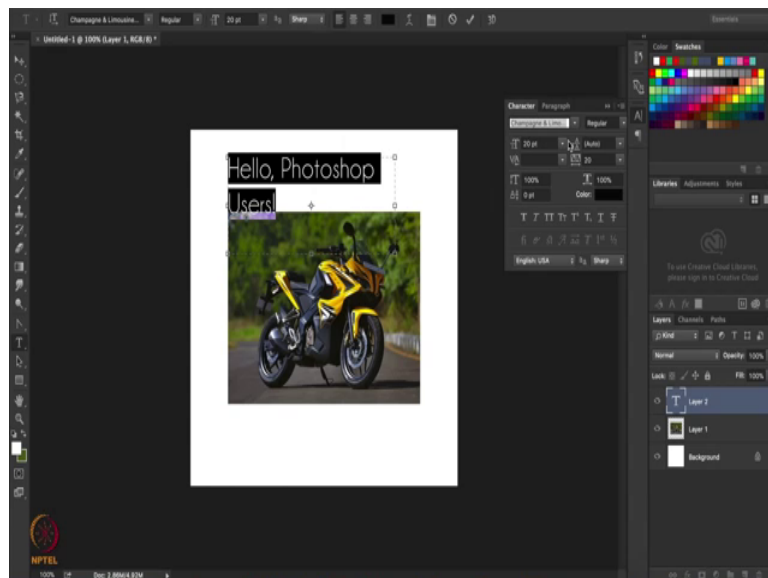So, if I just click on it and if I do not leave the mouse and if I drag it.

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It converts into a curved edge instead of a straight line. So, in this way you can you can refine your selections as well, you can just double click on it and if you want a particular point. So, for example, this if you want to edit this you can simply just click on this and this edge gets edited it gets refined. So, it is just a easier manual way of making selections right? So now, the next tool that we are going to see is the horizontal type.

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So, will it is used to add text to your project. So, you can just make a selection and type, this is using a different color I can just use a black color and I can type hello photoshop. So, it a so this is. And you can actually use a lot of different options present on the right-hand side of the tool.

So, you can increase the font size decrease the font size using this you can increase the silence between the vertical the vertical size alignment. And you can actually increase the size between the different characters as well. So, this will definitely be more useful while you are creating an app and the way you want your app to look like.

You have other very common options present like italics or strike or underline and these are just different options present you can change the type of font that you are going to be using, these are all the basic options that you always see and all the other paint tools and different tools. So, that is just get rid of this snare again; and we have discovered the tool the end of this video.

In this video we saw the different types of tools present in photoshop and how we can use them. in the next part of the video we will actually be using these tools and making a proper user interface design, which is exactly what you will be using photoshop for. So, see you in the next video.