PRIMAL VR USER MANUAL VERSION 1.0

April 2020



#### Preface

Copyright Jan 2020 © Curiious Primal VR User Manual Version 1.0 This document should cover all you need to know for the Primal VR application. For further technical assistance, please contact Curiious Pty Ltd. Email: help@curiious.com or Phone: +61 2 9439 0122
These materials and the hardware are intended for education and training only.

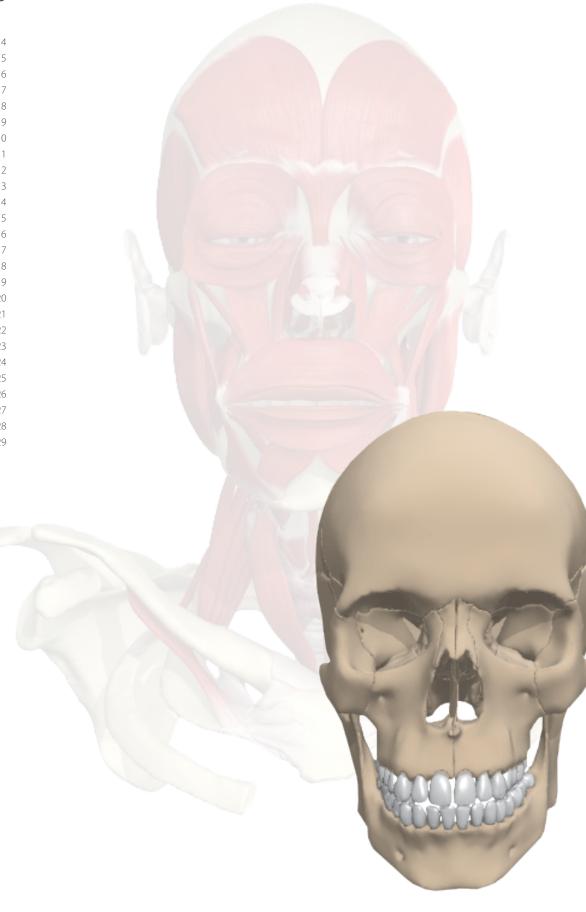
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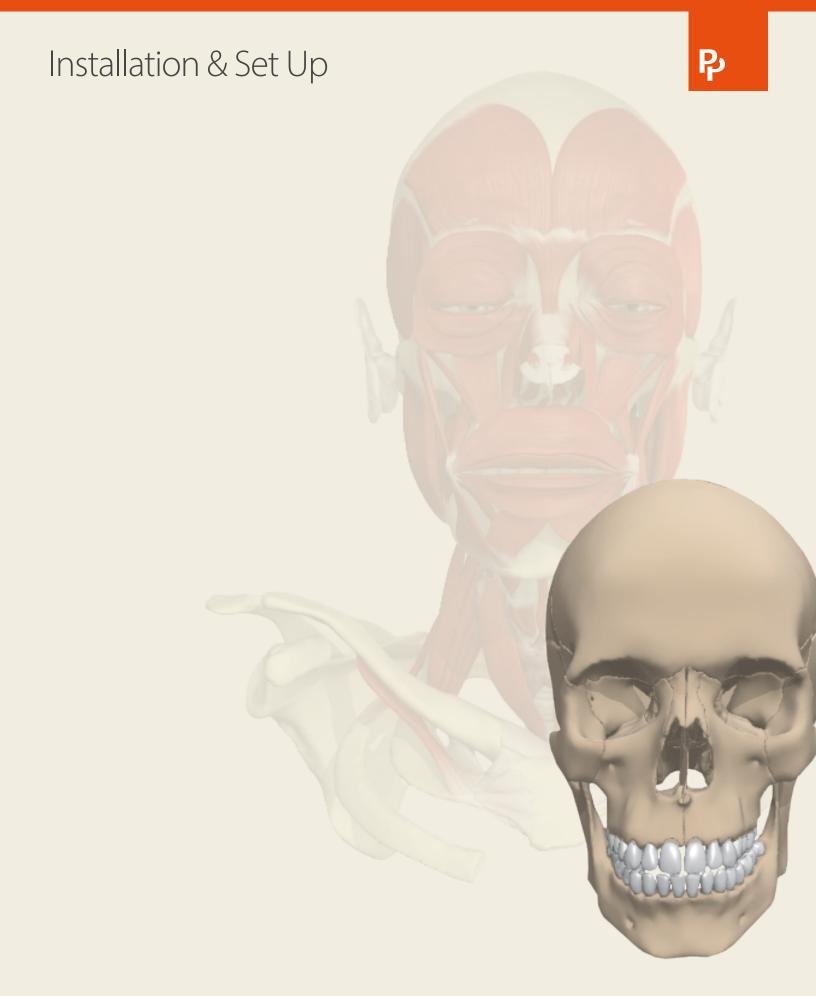
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### Overview



#### **About Primal VR**

Primal VR is a virtual reality educational tool that allows students to educate themselves with anatomical scenes in an immersive world.

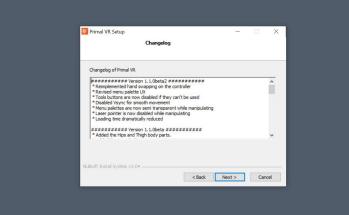
Students have the autonomy to control the complete experience by setting up the control interface exactly as they wish to learn.

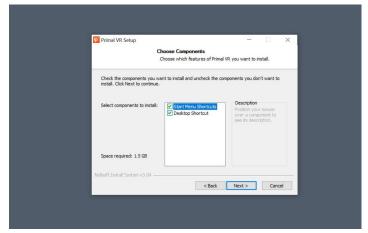
This is created by utilizing a complete six degrees of freedom environment. Allowing the users to examine and toggle viewing states at any size, location or position.

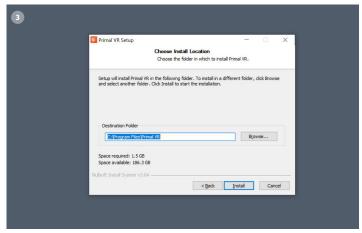
Students obtain an educational advantage through immersive learning by using Primal VR.

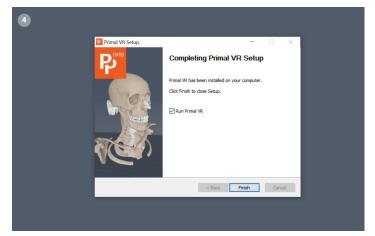
## Installing the app











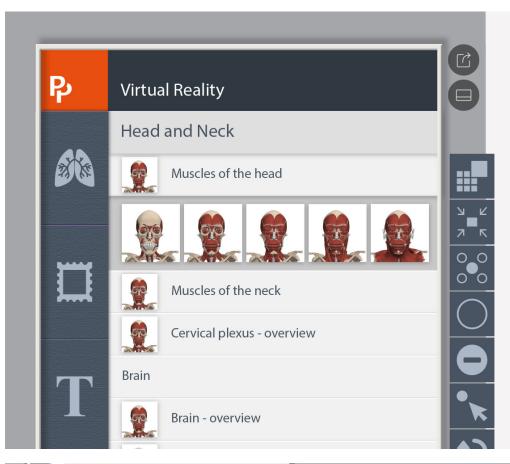


#### Installation overview

Primal VR application installation process is very similar to a normal desktop app install process. Primal VR is a PC Windows application only. Currently not available for Mac.

1	Download the installer to your PC desktop
2	Follow the Primal VR installation prompts at each stage
3	Choose a location to save the Primal VR application and wait for the installation to finish
4	To complete the installation, select 'Run Primal VR' check box and press Finish
5	Type in your Username and Password and press Login to start the Primal VR application

## App glossary



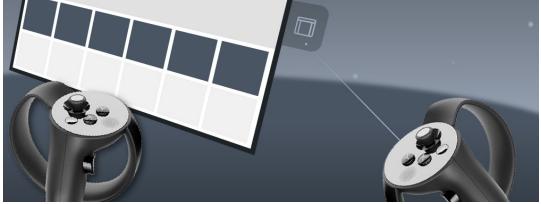
#### Interface

The interface is the main navigational menu. It allows the user to browse and choose content from the library.

After the scene (anatomical body parts) is displayed in VR the user can use the viewing modes on the right of the interface to show and hide scene layers.

Content is organized by media type and illustrated with thumbnails to make finding what you need quicker and easier than ever.

The interface can be manipulated to any size or position that the user may choose. For more information on how to manipulate the interface, please refer to the Tutorial section in this manual or inside the Primal VR application itself.

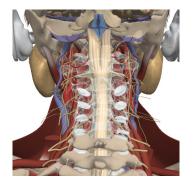


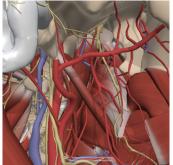
#### Mini menu

The mini menu is a compact version of the interface which is locked to the users primary controller (chosen left or right hand).

The mini menu view is helpful when the user is inside or in close view to the scene, where the interface is not visible.







#### Scene

Scenes describe and of the anatomical body parts offer in the interface library by Primal VR. The scenes can be manipulated to any size or position that the user may choose. For more information on how to manipulate the scene, please refer to the Tutorial section in this manual or inside the Primal VR application itself.

# Fitting a VR headset



1	A Virtual Reality Headset is commonly known as a HMD which stands for a Head Mounted Display
2	Clean both of the lens inside the HMD with a soft cloth. Also wipe clean the outer padding that fits over your face
3	Make sure your HMD headset is connected to your PC and powered on
4	Holding the front of the HMD over your eyes with your primary hand, pull the strap backwards and place the HMD onto your head
5	Hold the front of the HMD and adjust the top and side straps until it feels comfortable
6	If your HMD allows, focus the display so that it is sharp. By either a) positioning the headset higher or lower on your face b) moving the slider, knob or dial
7	If your HMD allows, set the volume to a reasonable level that is not to loud
8	Wearing glasses? Follow step four to put the HMD on. Reverse the steps to remove the HMD.
9	Some HMD models contain a sensor inside which will put the HMD to sleep when it is not worn, the headset will wake when re worn

#### **VR Manufacturer**

For more detailed information regarding your particular hardware, please choose a 'Getting started guide' from the manufacturer table.

Oculus	Rift	Getting started guide
Oculus	Rift S	Getting started guide
HTC	All products	Getting started guide

### Using the controllers

#### Different controller types

There are two main controller functions when using the Primal VR application. Firstly, the trigger (illustrated by orange circles) which is located at the bottom front of the controller. The trigger is the primary function for navigating inside Primal VR. Once you have selected your dominant controller (left or right hand), activate an action inside Primal VR by pointing the laser and pulling the trigger into the controller using your index finger. The application will action your selection.

Once you are inside Primal VR, you will have the ability to manipulate (scale, rotate and position) the scene (anatomical parts) and interfaces (menus). To manipulate, you will need to pull both triggers at the same time and move the controllers together. This will manipulate the scene or interface.

The second function is the thumbstick or trackpad control. Oculus, Rift and Rift S, HTC Cosmos all have a thumbstick which protrudes out of the top of the controller. HTC Vive uses a flat clickable trackpad on the top of the controller which acts in the same way as the thumbstick.

The thumbstick is used to view a scene or interface in a 360 manner by either pushing the thumbstick in any direction or pressing and moving the trackpad in any direction. To reset the scene or interface, simply press the thumbstick or trackpad down once. This will reset the item back to its original position.

1	Oculus	Controllers
2	HTC	Vive controllers
3	HTC	Cosmos controllers

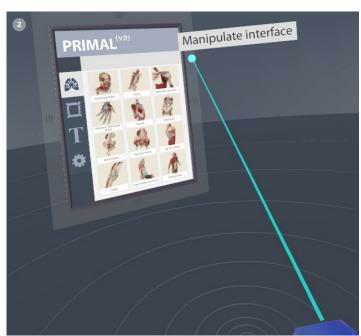




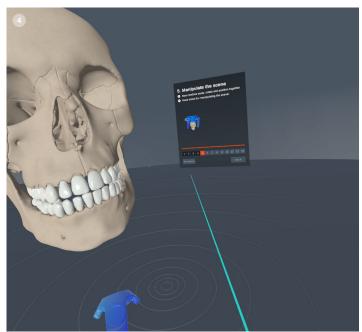


## Basic app functions









1	Dominant hand	On entry both controllers are active, to confirm left or right handed use, pull the trigger on one of the two controllers
2	Interface	Scale and position the interface by activating the manipulation mode frame
3	Personalised	Arrange the interface to best suit your viewing needs by arranging the scene, mini menu and interface in any combination and layout
4	Tutorial	Play the tutorial (located inside settings on the interface) to learn how to use all of the app features and functions

## Understanding the interface



#### Interface Overview

#### Left hand panels

Content is organized by media type and illustrated with thumbnails to make finding what you need quicker and easier than ever. The buttons down the left-hand side of this panel allow you to access the main functions of the application: Top Level, Gallery, Scene Text, and Settings.

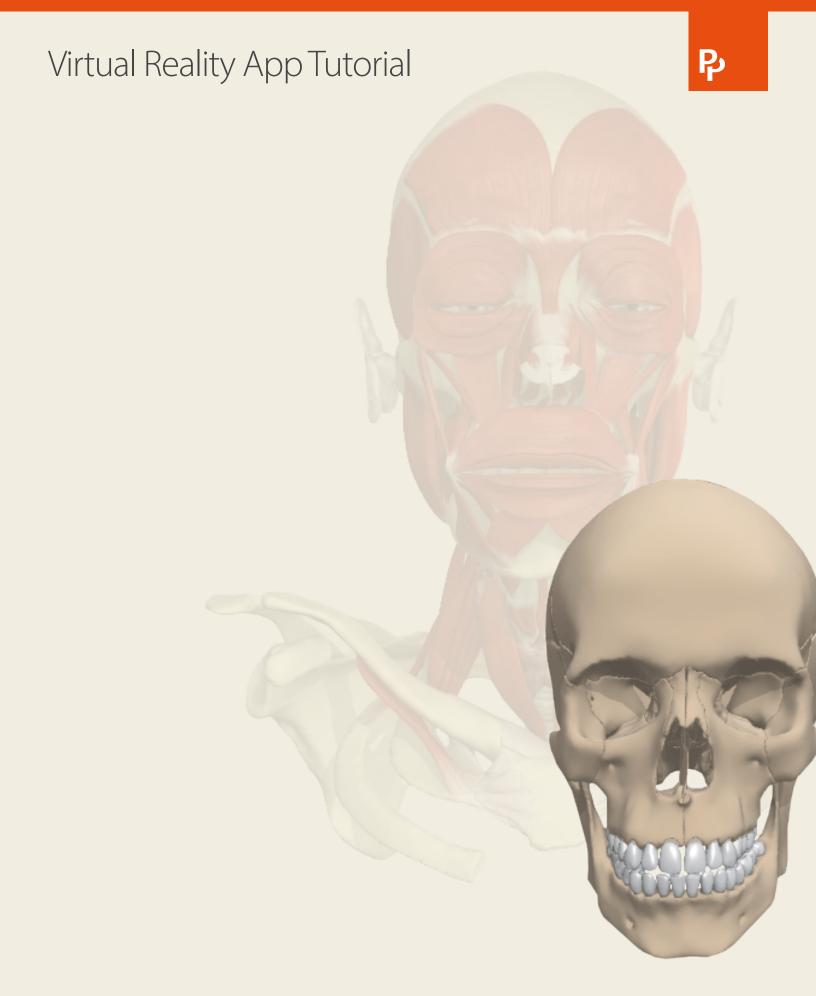
#### Interface manipulation

Manage how you wish to position and view menu options.

#### Scene view options

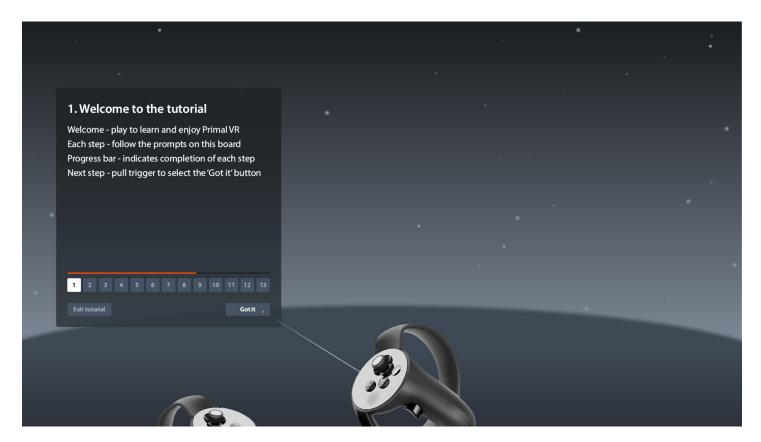
Choose from a selection of viewing modes to reveal or hide the scene layers.

1	3D Real Time	Top level Anatomical Regions
2	Gallery	Predefined views which will help you understand key anatomical areas
3	Scene Text	Read detailed text about the most recently selected anatomical structure
4	Settings	Features numerous controls to adjust how the VR application is set up
5	Context	See your selected structure in relation to the associated anatomical scene
6	Inspect	Close-up view, study in isolation, all other visible objects are temporarily hidden
7	Examine	Selected structures remain opaque whilst the rest of the scene is ghosted
8	Ghost	Turn the selected structure semi-transparent
9	Hide / Show	Structures can be hidden or shown
10	Multi Select	Multi-select mode allows you to select (or deselect) more than one structure at a time
11	Reset	Reset the scene to its original position



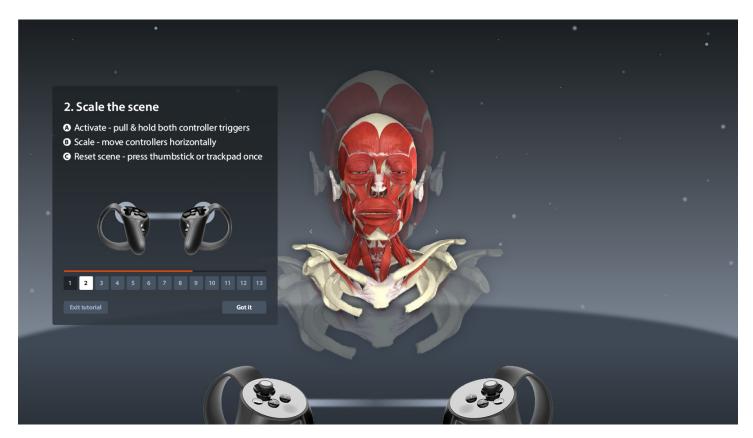
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### 1. Welcome to the tutorial



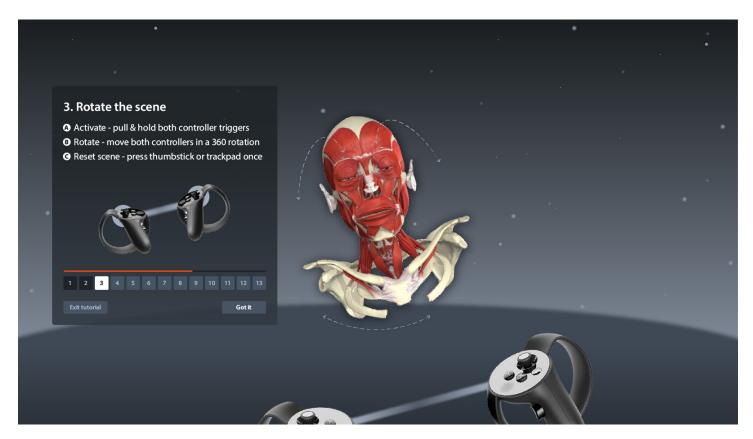
Action	Description	
Welcome	Play to learn and enjoy Primal VR	
Each step	Follow the prompts on this board	
Progress bar	Indicates completion of each step	
Next step	Pull trigger to select the 'Got it' button	

## 2. Scale the scene



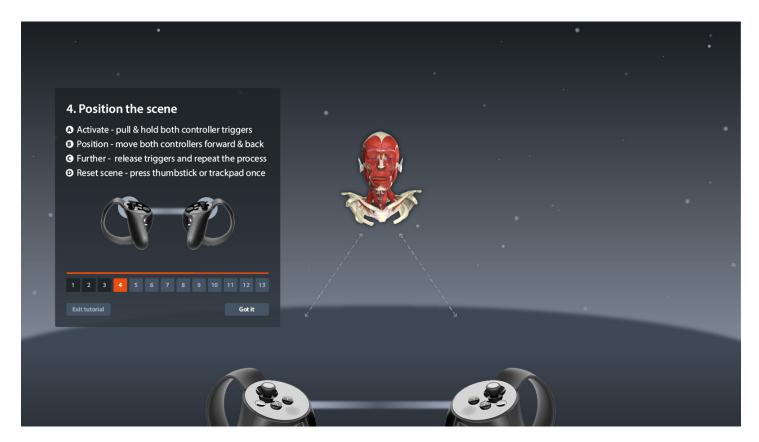
2	Action	Description
А	Activate	Pull & hold both controller triggers
В	Scale	Move controllers horizontally
С	Reset scene	Press thumbstick or trackpad once

### 3. Rotate the scene



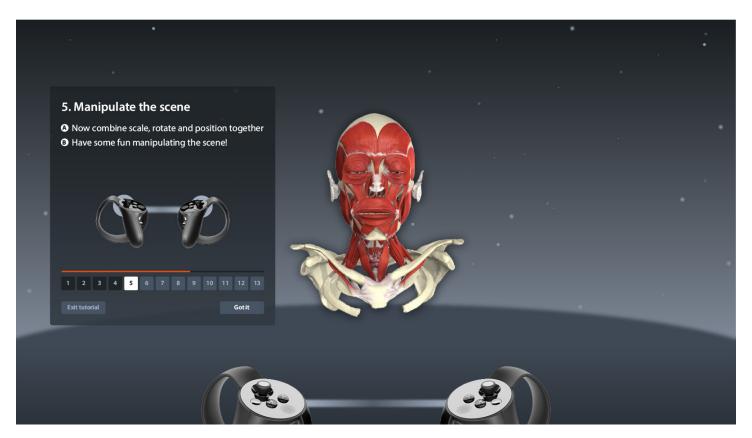
3	Action	Description
А	Activate	Pull & hold both controller triggers
В	Rotate	Move both controllers in a 360 rotation
С	Reset scene	Press thumbstick or trackpad once

### 4. Position the scene



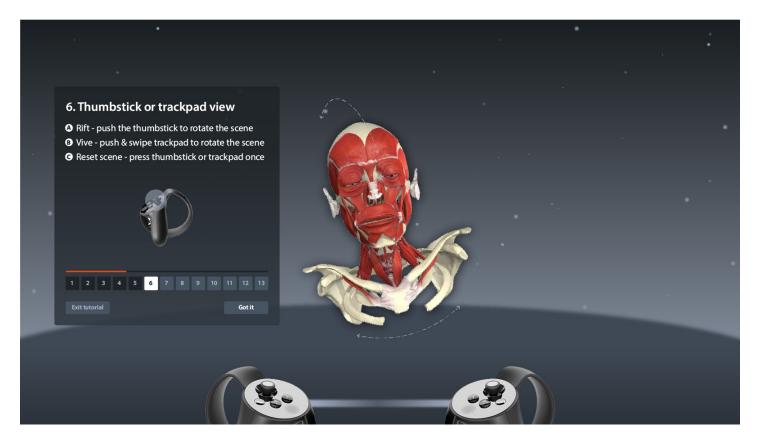
4	Action	Description
А	Activate	Pull & hold both controller triggers
В	Position	Move both controllers forward & back
С	Further	Release triggers and repeat the process
D	Reset scene	Press thumbstick or trackpad once

## 5. Manipulate the scene



5	Description
А	Now combine scale, rotate and position together
В	Have some fun manipulating the scene!

## 6. Thumbstick or trackpad view



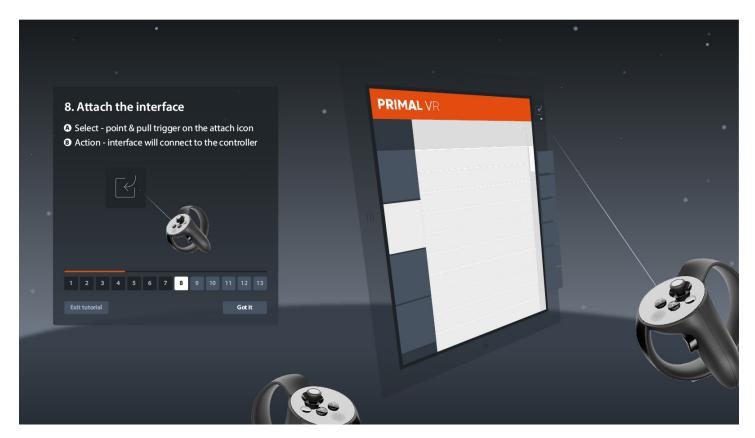
6	Action	Description	
А	Rift	Push the thumbstick to rotate the scene	
В	Vive	Push and swipe trackpad to rotate the scene	
С	Reset scene	Press thumbstick or trackpad once	

# 7. Manipulate the interface



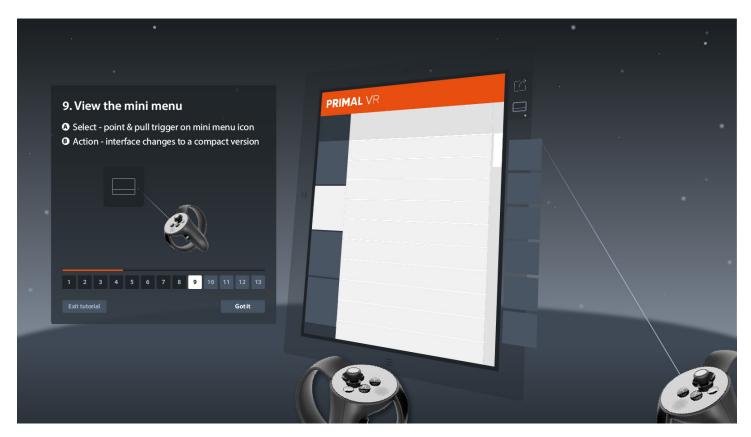
7	Action	Description	
А	Select	Point & pull trigger on interface frame	
В	Activate	Pull & hold both controller triggers	
С	Manipulate	Scale, rotate and position	
D	Lock	Point away from interface and pull trigger	

### 8. Attach the interface



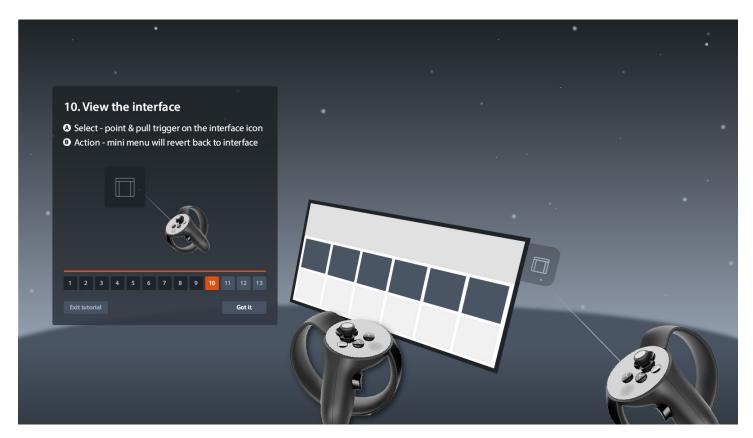
8	Action	Description	
А	Select Point & pull trigger on the attach icon		
B Action Interface will connect to the controller		Interface will connect to the controller	

### 9. View the mini menu



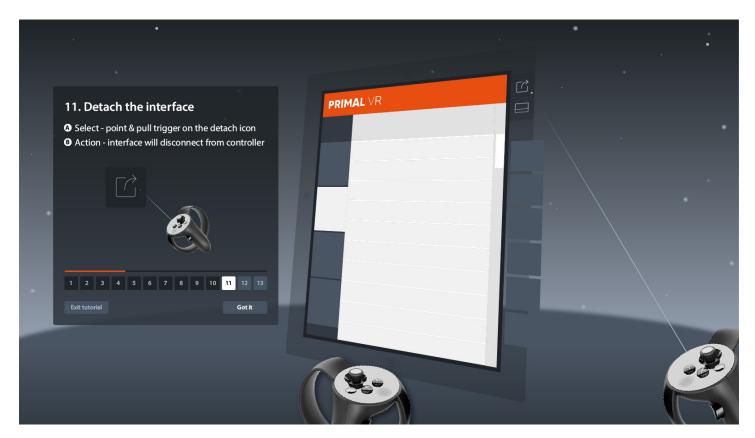
9	Action	Description		
А	A Select Point & pull trigger on the mini menu icon			
B Action Interface changes to a compact version		Interface changes to a compact version		

### 10. View the interface



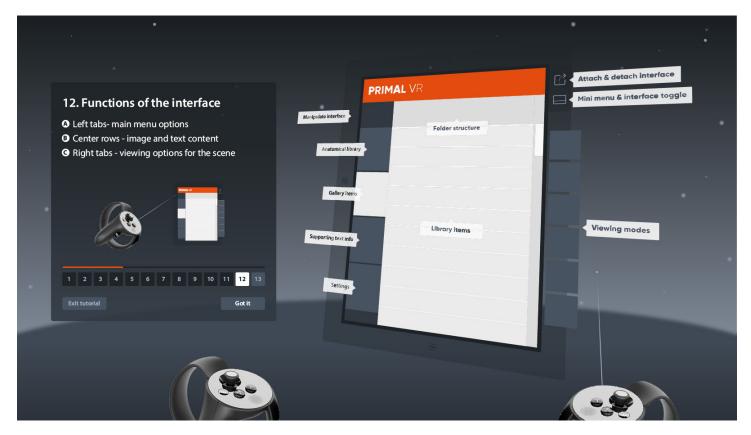
10	Action	Description		
А	Select Point & pull trigger on the interface icon			
B Action Mini menu will revert back to interface		Mini menu will revert back to interface		

## 11. Detach the interface



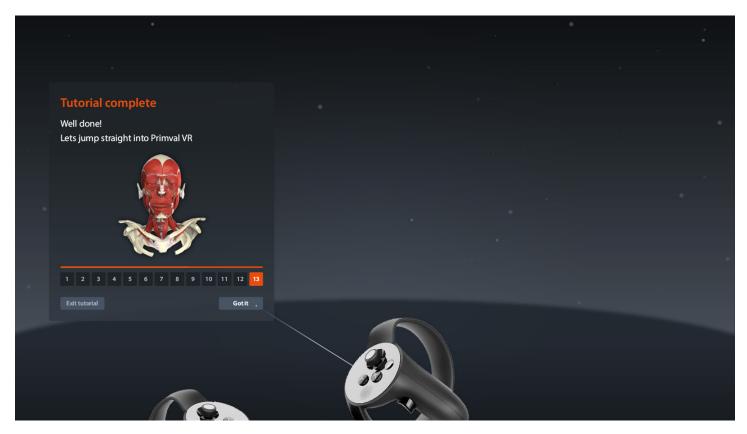
11	Action	Description	
А	Select	Point & pull trigger on the detach icon	
B Action Interface will disconnect from the controller		Interface will disconnect from the controller	

### 12. Functions of the interface



12	Action	Description
А	Left tabs	Main menu options
В	Center rows	Image and text content
С	Right tabs	Viewing options for the scene

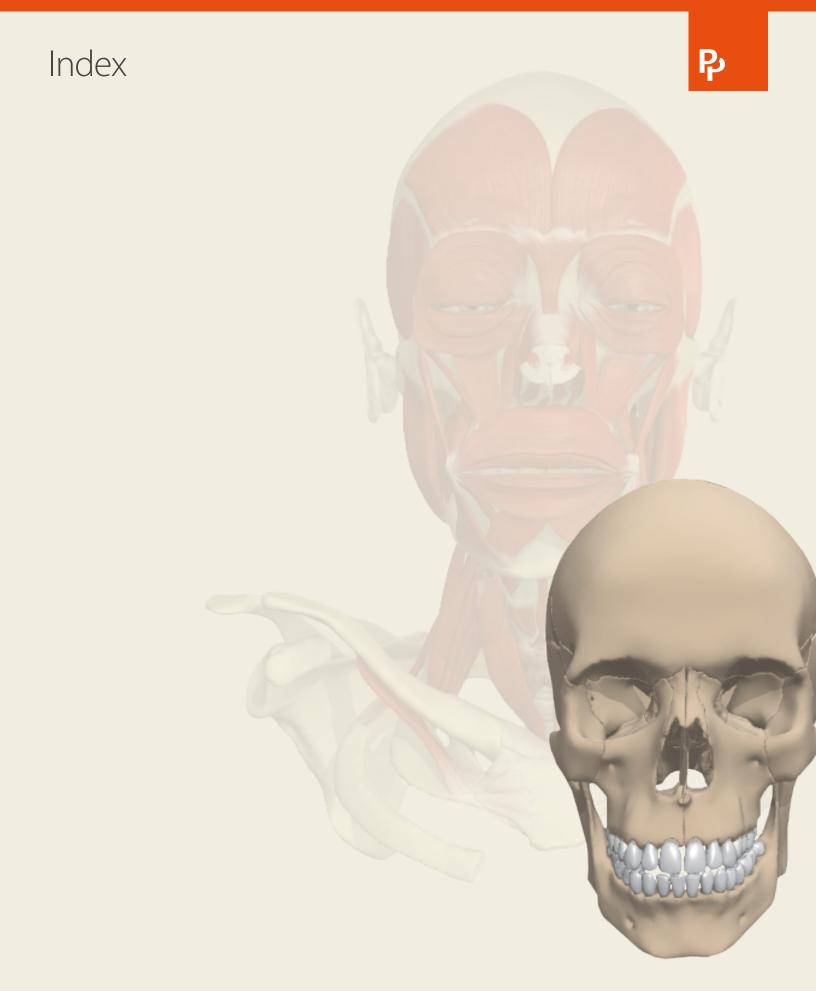
## 13. Tutorial complete



Description

Well done!

Let's jump straight into Primal VR



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## Icon Directory

					$\triangle$
Grab Handles	Detach Menu	Attach Menu	Interface	Mini Menu	Alert

## **VR Safety**

#### **Manufacturers Recommendations**

In addition to the virtual reality basic guidelines explained here. We recommend that you also please refer to your specific hardware Manufactures Recommendations. Click on the Support links in the table.

Oculus Click here for support HTC Click here for Support

$\triangle$	Classroom suitability	$\triangle$	Equipment use
	vare of the school's policy on safety in the classroom and the use of all technologies.		e consult the VR manufacturer guidelines for information regarding the bility of the equipment for the specific purpose and intended use.
$\triangle$	Headset irritation		Virtual vs reality
if you	readset is worn next to your skin and scalp. Stop using the headset notice swelling, itchiness, skin irritation or other skin reactions. If toms persist, contact a doctor.	be at	ersive virtual reality can evoke powerful reactions in children who may not ole to cognitively regulate the experience and, for the very young, may to believe that the virtual experience was real.
$\triangle$	VR sickness	$\triangle$	Social understanding and awareness
motio instru healti	e people get cyber-sickness when using VR headsets. This is a type of on sickness. If the participant begins to feel unwell or uneasy, then act the student to take the headset off and sit down. Check students' the records for any health-related issues that may be triggered in using all Reality.	techr solut into a	ning to use equipment safely is central to working with digital nologies. It is important for students to explore and create interactive ions for sharing ideas and information online and in VR, including taking account safety, social contexts and legal responsibilities when applying niques to make ethical decisions.
$\triangle$	Hardware controls	$\triangle$	Play area boundaries
the vi	and follow all the setup and operating instructions provided with irtual reality headset and controllers. This will make the students rience more easier to navigate once in VR.	obsta	re that a guardian has been set up correctly, so the boundary is free of acles in your VR play area. Don't go beyond your guardian zone, which is ed by your play area boundary.
$\triangle$	Real world surroundings	$\triangle$	Recommended session times
	act students to be aware of their own surroundings and of others. on students about potential dangers before they begin an activity.		mportant that users of VR limit their time in the headset in a continuous c, as extended times in VR may increase the chance of getting cyber- ess.
$\triangle$	Safe practices	$\triangle$	Equipment recommendations
unple	act students that if they ever feel the experience is too intense or easant then they are to take the headset off. Discuss and display a list of practices for VR based activities.		by the hardware and software recommendations for use of the headset.  of discomfort may increase if recommended hardware and software are not
$\triangle$	Student suitability	$\triangle$	Content suitability
lingu	ners should consider the physical (motor and perceptual), cognitive, istic, emotional (affective), social and moral developmental stage of ers before using VR in their classroom.	deve	n using VR for learning, teachers should consider how children at different lopmental stages might respond to the content, modes of interaction and dances of VR technology.

### Contact Details

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