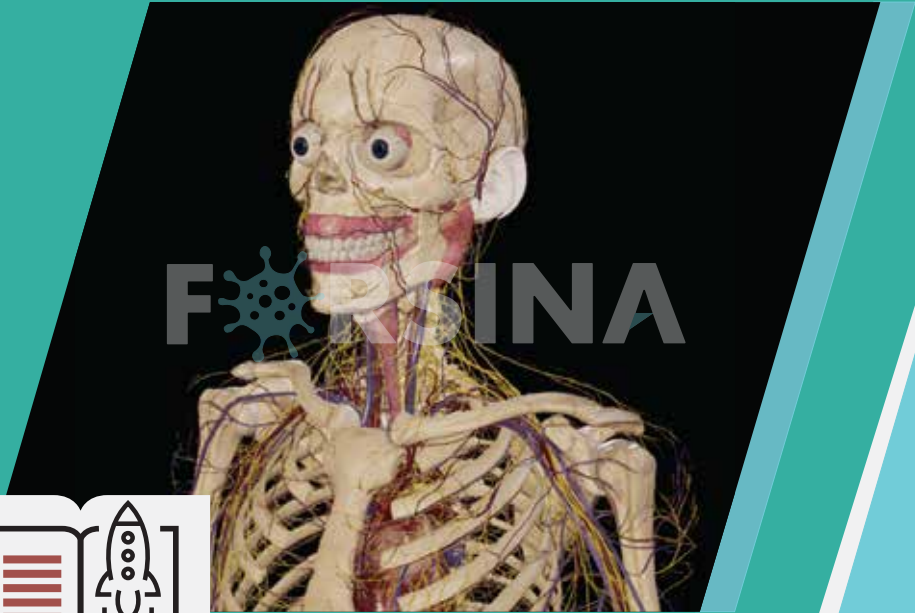
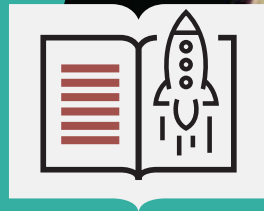


FORSINA

Forsina Anatomy 3D

Quick Manual



About Forsina

“FORSINA” **the biggest medical library in the world**, aims to assist universities, students, healthcare professionals, and even patients in receive quality and accurate medical information, and it provides different tools to easily view, study, and understand human anatomy for male and female using 3D, Virtual Reality, and real CT scan models.

We have the biggest medically accurate content written developed by our anatomy experts and doctors, offering more than 1000 histology images, 50000 landmarks, 20000 traceable blood vessel and nerve paths, 500000 CT images and over 5 million medical words.

Forsina Products

Forsina has created software that mainly focus on the anatomy of the human body and histology in addition to radiology and Dicom convertor for the purpose of learning and harnessing the best tools to facilitate and empower the learning and researching process

Our Products



Forsina Anatomy 3D

Explore the female and male human body comprehensive structure in a stunning 3D environment covering every anatomical structure with full medical information for each one.

Forsina Anatomy VR

Explore the female and male human body comprehensive structure in an immersive Virtual reality environment covering every anatomical structure with full medical information for each one



Forsina Dicom Converter 3D

Convert your DICOM files into a 3D module to be used in your desktop or mobile, this will allow you to explore your DICOM images in 3D environment .

Forsina Dicom Converter VR

Convert your DICOM files into a Virtual Reality module to be used using your VR tool kit, this will allow you to explore your DICOM images in one of a kind experience you have never had before.



Forsina Radiology 3D

Learn and understand how to read CT medical images, control the body density and frontal planes (axial. Sagittal, coronal) in a stunning 3D module created from over 120000 CT images for your studies.

Forsina Radiology VR

Learn and understand how to read CT medical images, control the body density and frontal planes (axial. Sagittal, coronal) in an immersive VR module created from over 1 Million CT images for your studies.

Quick Guide



Figure 1 | start screen

Button	Function
Male Body	Access 3D male body structure
Female Body	Access 3D female body structure


Button

Function

Multi Users

Create or join multi-user session, if enabled

Create or join session pages:

Create Session  Create a new multi-user session

- Server Name: Write the desired name of the session.
- Educator Name: Write the name other users will see over your avatar.
- Create: Create the new session after choosing server and educator names.



Join Session  Join a remote session through a VPN connection.

- Session Address: Enter the IP address of the server (party that created the session).
- Student Name: Write the name other users will see over your avatar.
- Join: Join the session after entering the IP address.

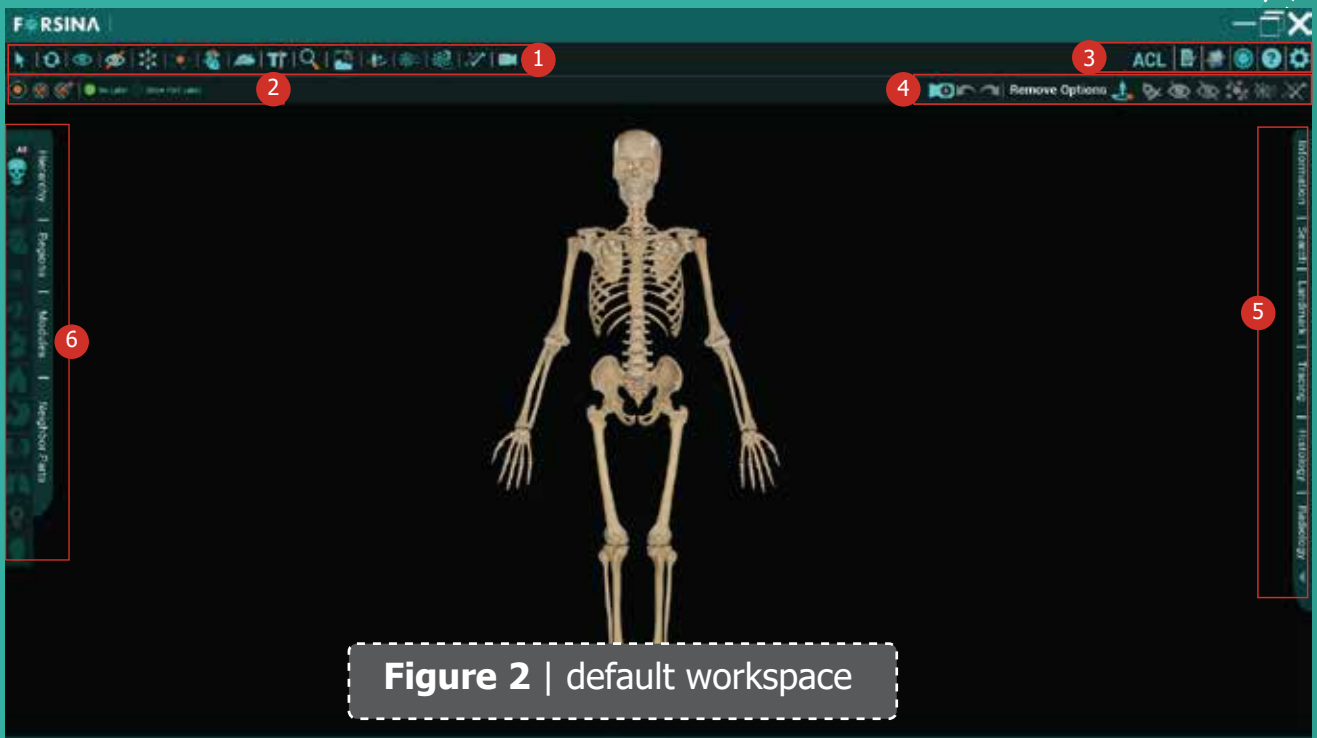


Help




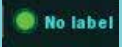
























Visit Forsina support
www.forsina.com/support


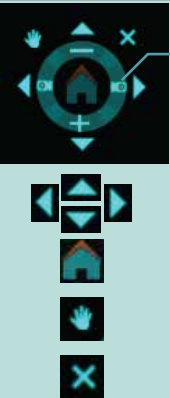








Exit









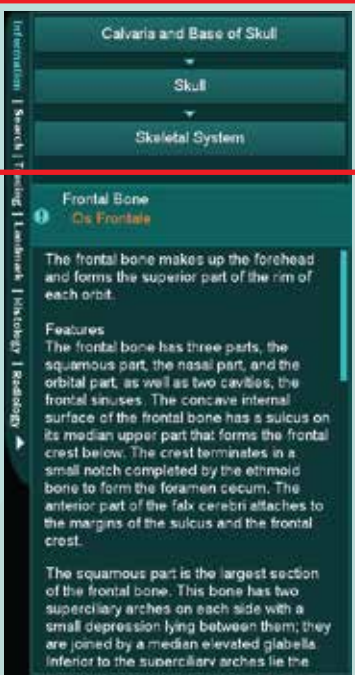
Exit Forsina Anatomy 3D

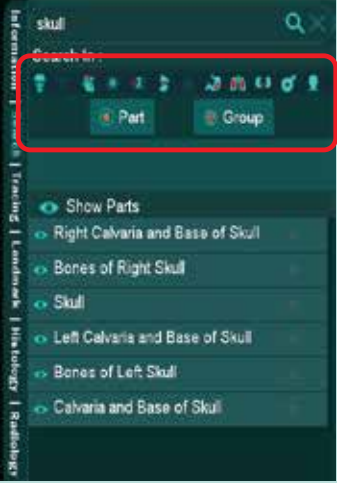

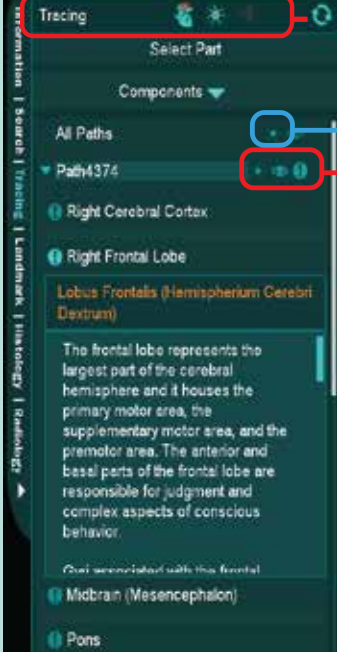







Num.	Icon	Name	Function
1		Select	Select a single part/multiple/group to control it
		Reset	Reset a single part/group to its original location
		Fade	Fade the selected single part/group and see underneath layers
		Hide	Make the selected single part/group invisible
		Explode	Expand the selected group to its primary segments
		Isolate	Isolate the selected single part/group from the whole body in 3D view
		Play organ	Play\stop animation of the organ
		Drawing	Draw lines free hand or on the model
		Sticker	Add a personalized sticker on any body part
		Discover	Its a lense to show what underneath visible body layers
		Screenshot	Takes and save a screenshot for your current view
		Transform Body	Rotate the body in 3 axis
		Freeze	Make the selected part\group unaffected by Hide, Isolate, and fade.
		Freeze All	Make the selected view parts unaffected by Hide, Fade, and Isolate functions
		Duplicate	Make another copy of the selected part/view
		Screen Record	Takes a video recording of the screen as you are working on the model


Num.	Icon	Name	Function	
2.1		Single selection	Select a single part of the human structure	
		Group selection	Select a group of parts of the human structure	
		Multiple selection	Select multiple parts of the human structure	
		No Label	Select the part without an indication to it by a label	
		Show Part Label	Select a body part/multiple parts and showing its label	
! Type of selection depends on the tool selected (i.e if you select  only   will be active)				
2.2		Duplicate Front	Place the duplicated single part in front of the copied part	
		Duplicate Beside	Place the duplicate single part on the left of the copied part	
		Duplicate All Front	Place the duplicated view in front of the copied view	
		Duplicate All Beside	Place the duplicate view on the left of the copied view	
3	 	ACL	For the user who has created a multi-user session, control access permission of other users.	
			Full Control: Grant user full control over the model. All actions done will be seen by all other users.	
			Revoke Full Control: Revoke full control access from a user.	
			Partial Control: Grant user partial control, i.e., user can only move the camera.	
			Revoke Partial Control: Revoke partial control from a user.	
			Mute User: Mute sound coming from the user's microphone.	
			Unmute User: Unmute sound coming from the user's microphone.	
			Search: Search for a user in the session by name.	
			Refresh: Refresh the users in the session to reveal the name of users that have recently joined the session.	
			Close: Close the ACL window.	
			Syllabus	View the available syllabus
			Planes of Body	Used to reveal three plane lines that can be moved on the body
			Store	Forsina store to view all forsina products
	Help center	View product manuals, FAQ's, setup guides and more		
	Settings	Opens settings menu where resolution, language, sound, and save path screenshots and records can be changed.		

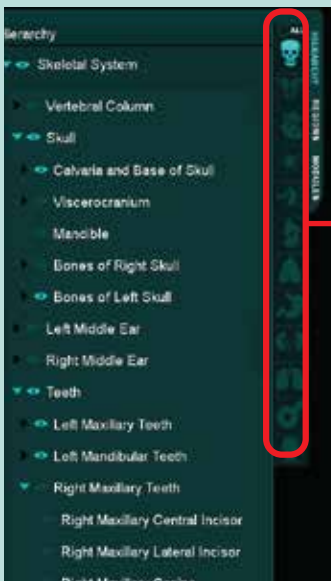



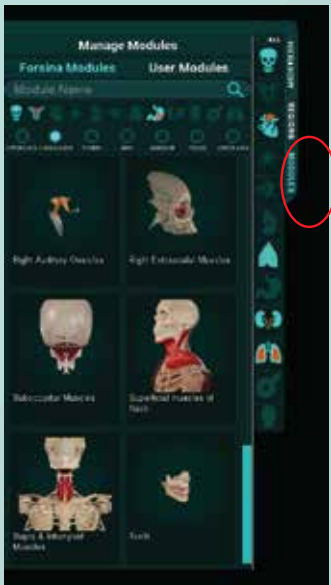
Num.	Icon	Name	Function
4		Navigation button	Show / Hide navigation ring
4.1	<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 0.8em; margin-right: 5px;">Navigation Ring</div>  </div>	Zooming Increase/Decrease Camera Depth Directional Arrows Reset Camera Move Close	Clicking on the  or  buttons to zoom in/out of the view Use  or  buttons to increase or decrease camera depth Used to move the entire 3D view up, down, left, or right Used to reset the camera view to the original position Used to move navigation ring on screen Used to close current navigation ring
<div style="background-color: #c00; color: white; padding: 2px 10px; border-radius: 10px; display: inline-block;">  Clicking on  will reopen the navigation ring </div>			
	 	Undo Redo	Revert last action Reapply last action (only activated after Undo function)





Num.	Icon	Name	Function
	Reset Options	      	<p>Clear Sticker: Remove all stickers</p> <p>Reset body: Reset all parts to the default system (skeleton system)</p> <p>Disable hide: Undo the hiding action</p> <p>Disable fade: Undo the fade action</p> <p>Exit isolation: Reset all isolated parts to its original</p> <p>Disable Freeze: Disable freeze function on the selected part</p> <p>Remove Duplicate: Delete the duplicated part/view</p>
5	Right Side Panel	Right Side Panel	<p>Consists of six main tabs:</p> <ul style="list-style-type: none"> Information Search Tracing Landmark Histology Radiology <p>By default, all tabs will be closed, click on  to expand the tab and see more options</p>
5.1		Information	<p>Contains the name of the selected part in English and Latin.</p> <p>In addition to the part information on the top, you can see the selected part hierarchy path to understand human body anatomical structure</p>

Num.	Icon	Name	Function
5.2		Search	<p>Search for any part in the human body by its name</p> <ul style="list-style-type: none"> • use body system filter to search in a specific system. • use part filter to search for a single part. • use group filter to search for a group structure <p>in addition you can click on the logo  to show/hide the searched part in 3D.</p>
<p>! Clicking on the search result part will be highlight in the 3D view</p>			
5.3		Tracing	<p>Allows to follow up the path of a blood vessel or nerve impulses on the 3D module to trace the path from it's origin to the related part.</p> <ul style="list-style-type: none"> • Select one or more systems to trace path (cardiovascular, nerve or llymphatic system) to see it on the 3D view. • Click on the select path and choose any path <p>when clicking on a path, its name will appear in addition to full description of this path and will be highlighted in the 3D view.</p> <ul style="list-style-type: none"> • Clicking on  all path will isolate all possible paths in the 3D view. • Isolate the selected path or fade other paths or see more details.
<p>! Tracing only available in advance mode</p>			
5.4		Landmark	<p>Showing the landmarks and their names on the selected part</p> <p>click  will show more information for the selected landmark</p> <p>click  to show/hide landmark on the body part, each landmark is identified with a number (for example ) that can be shown on the selected part as a red circle</p>

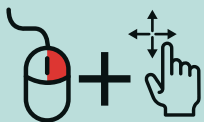
Num.	Icon	Name	Function
5.5		Histology	<p>Browse histology images, related to the cell and tissues structure with their landmarks</p> <p>use  to browse between histology images and find image description for each image</p> <p>icon shows more information about image description, tissue category and tissues</p> <p>Clicking on the image will maximize the view</p>
5.6		Radiology	<p>View CT/MRI/X-ray images for the selected part in any of the three planes (Axial/Coronal/Sagittal)</p> <p>use  to move between slices.</p> <p>click on the image to maximize the view and to be able to rotate the image and see landmarks in red dot</p>
6		Left Side Panel	<p>Enables the user to show/hide anatomical structures in the 3D view by clicking on the desired system</p> <ul style="list-style-type: none"> Available systems (skeletal system, muscular system, cardiovascular system, nervous system, lymphatic system, joints system, endocrine system, digestive system, urinary system, respiratory system, reproductive system, integumentary system).

 You can press  to activate/disable all systems at once

Num.	Icon	Name	Function
6.1		Hierarchy tab	<p>Discover the systems and their parts and groups in a hierarchical form provides the ability to list the systems, displaying their relevant groups and parts.</p> <ul style="list-style-type: none"> • Enable/disable body system from right side to show hierarchical for the related system. •  deep dive to the next hierarchical level. •  show/hide selected part in 3D view.
6.2		Regions tab	<p>View body systems based on region, by clicking on the desired region you can enable/disable the 3D view</p> <p>Basic Activated by default for human region</p> <p>Advance Open advanced region to activate advanced body structure view in more details, for example (show all nerve system, blood vessels)</p> <p>! Default region view is basic view</p>
6.3		Modules tab	<p>View available modules in addition to a searching function by module name.</p> <ul style="list-style-type: none"> • Use filter to search for any module based on system and/or region. <p>Create customized modules, user can add description to the created module, filters and/or systems for an easy search</p> <p>Create Module</p> <p>Forsina Modules View pre-created modules from Forsina</p> <p>User Modules View Modules created and customized by the user.</p> <p>Exit Module Close the module tab and remove the selected module from the scene.</p>

Num.	Icon	Name	Function
		 	<p>Take a snapshot of the current view and save it as a module</p> <p>Delete the created module</p>
6.4		<p>Neighbor Parts</p> <p>Select Part</p>	<p>Reveal the neighboring parts for any selected part from any other system (s).</p> <ul style="list-style-type: none"> • Select a part from the model • Select the system (s) for the neighboring parts you wish to reveal • Move the slider to reveal the neighboring parts in a radius around the originally selected part

Mouse + Mac touchpad Controls



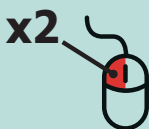
Rotate camera



Right click menu



select, move, functions



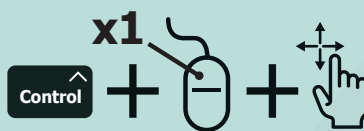
Focus on body part



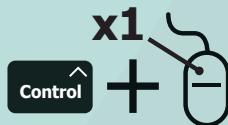
↑ Zoom in
↓ Zoom out



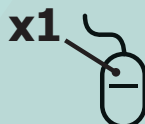
Pan camera



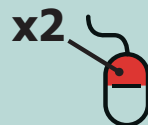
Rotate camera



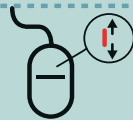
Right click menu



select, move, functions



Focus on body part



↑ Zoom out
↓ Zoom in



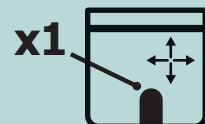
Pan camera



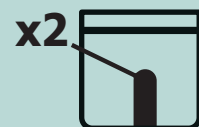
Rotate camera



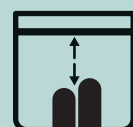
Right click menu



select, move, functions



Focus on body part



↑ Zoom out
↓ Zoom in



Pan camera



Right click can be activated from:
system preferences > mouse > secondary click activation