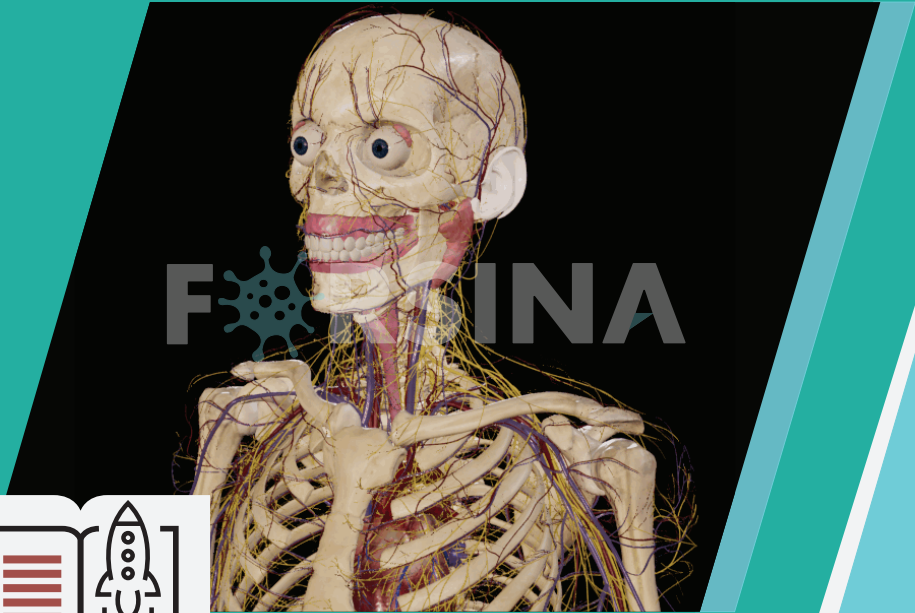
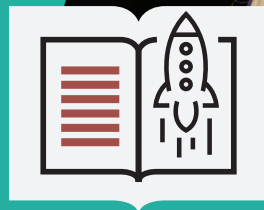


FORSINA

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

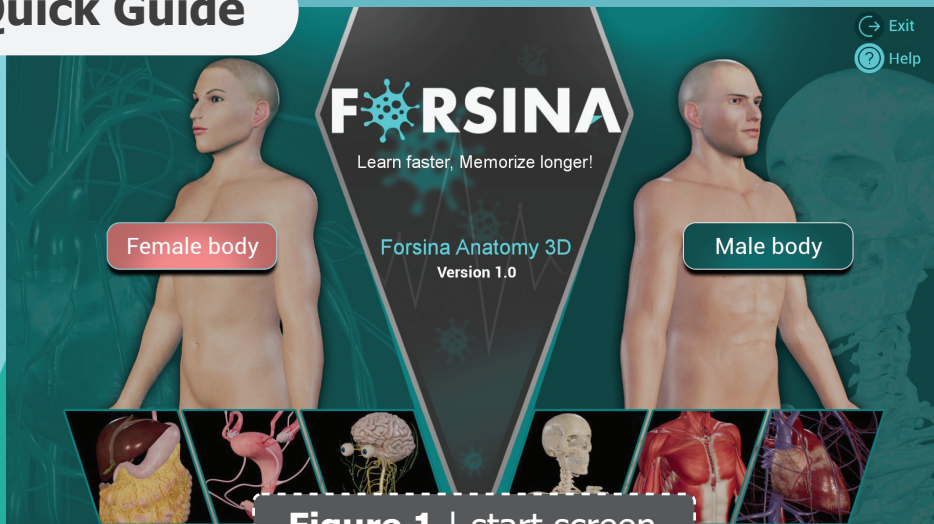


Figure 1 | start screen

| Button | Function |
|-------------|---|
| Male Body | Access 3D male body structure |
| Female Body | Access 3D female body structure |
| Help | Visit Forsina support www.forsina.com/support |
| Exit | Exit Forsina Anatomy 3D |



Default Workspace

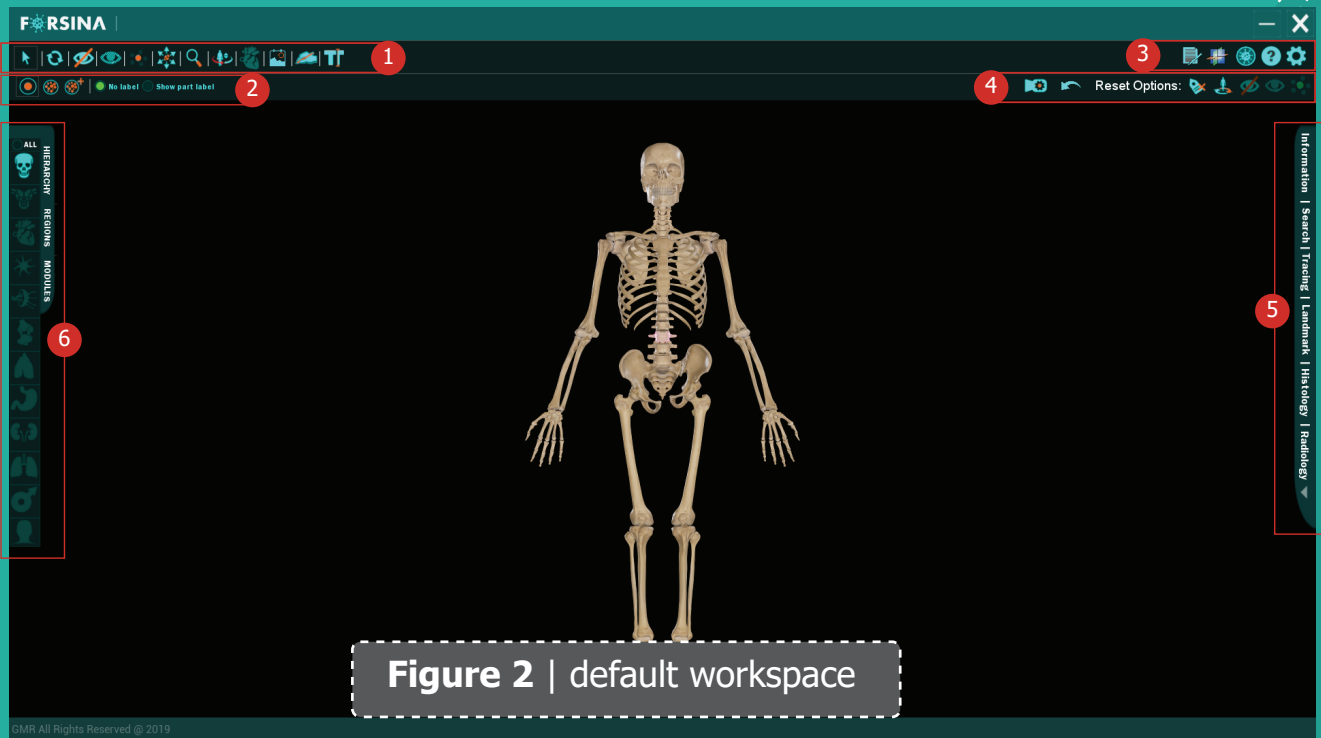






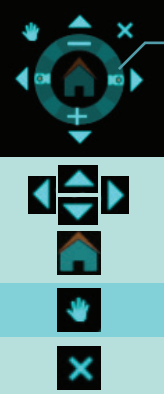






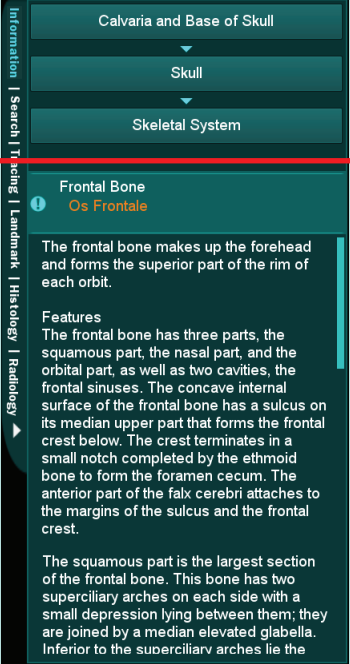
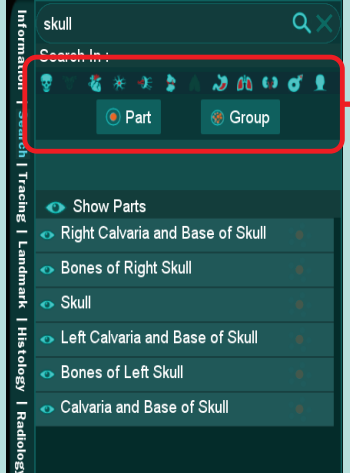

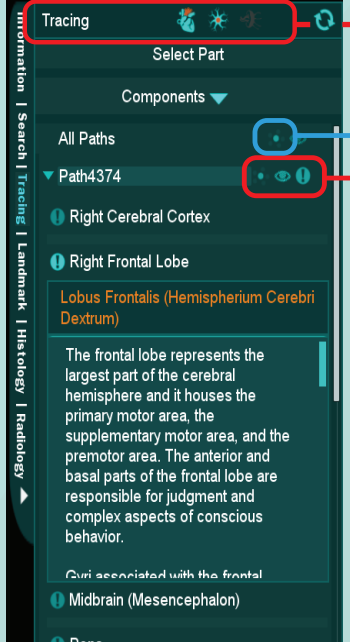



Figure 2 | default workspace

| 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 |
| | | Hide | Make the selected single part / group invisible |
| | | Fade | Fade the selected single part / group and see underneath layers |
| | | Isolate | Isolate the selected single part / group from the whole body in 3D view |
| | | Explode | Expand the selected group to its primary segments |
| | | Discover | Its a lense to show what underneath visible body layers |
| | | Transform Body | Rotate the body in 3 axis |
| | | Play organ | Play / stop animation of the organ |
| | | Screenshot | Takes and save a screenshot for your current view |
| | | Drawing | Draw lines free hand or on the model |
| | | Sticker | Add a personalized sticker on any body part |
| 2 | | 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 |

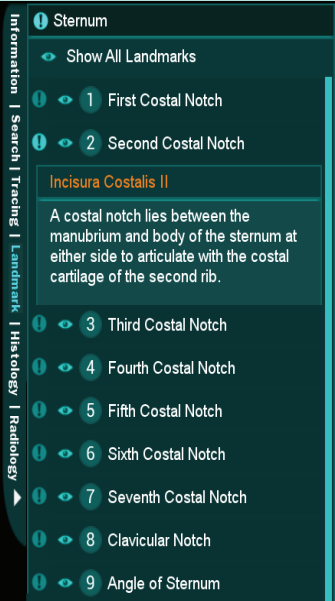



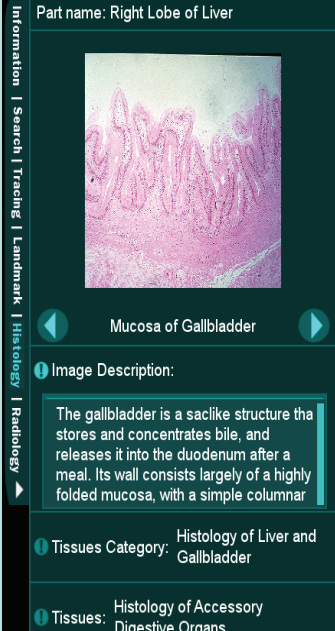


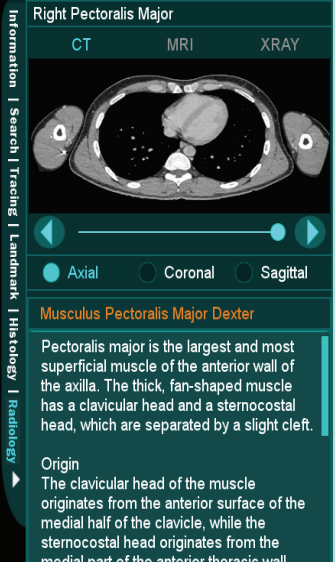

! Type of selection depends on the tool selected (i.e if you select only will be active)


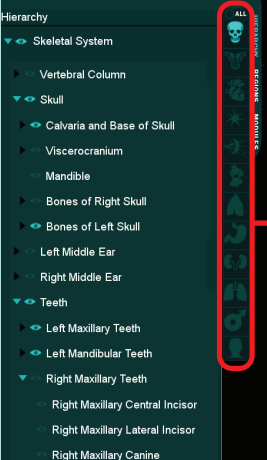


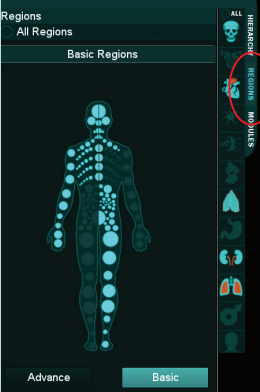
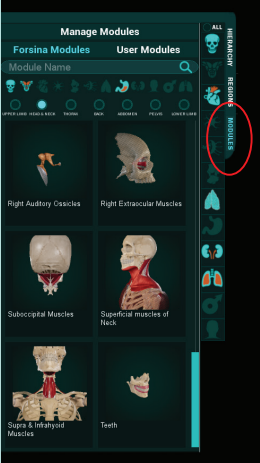
| Num. | Icon | Name | Function |
|------|---|---|---|
| 3 |  | Syllabus | View the available syllabus |
| |  | Planes of Body | Used to reveal three plane lines that can be moved on the body |
| |  | Store | Forsina store to view all forsina products |
| |  | Help center | View product manuals, FAQ's, setup guides and more |
| |  | Settings | Open settings menu where resolution, language & sounds can be changed |
| 4 |  | Navigation button | Show / Hide navigation ring |
| 4.1 |  | Zooming | Clicking on the + or - buttons to zoom in/out of the view |
| | | Increase/Decrease Camera Depth | Use D or F buttons to increase or decrease camera depth |
| | | Directional Arrows | Used to move the entire 3D view up, down, left, or right |
| | | Reset Camera | Used to reset the camera view to the original position |
| | | Move | Used to move navigation ring on screen |
| | | Close | Used to close current navigation ring |
| | |  Clicking on  will reopen the navigation ring | |
| |  | Undo | Revert last action |
| |  | Clear Labels | Remove all body part labels |
| | | Reset body | Reset all parts to the default system (skeleton system) |
| | | Disable hide | Undo the hiding action |
| | | Disable fade | Undo the fade action |
| | | Reset isolation | Reset all isolated parts to its original |
| 5 |  | 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> |

| Num. | Icon | Name | Function |
|------|---|-------------|--|
| 5.1 |  | Information | <p>Contains the name of the selected part in english and latin.</p> <p>in addition to the part information</p> <ul style="list-style-type: none"> on the top you can see the selected part hierarchy path to understand human body anatomical structure |
| 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> |
| 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 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. 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. |

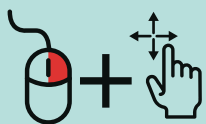
! Clicking on the search result part will be highlight in the 3D view

! Tracing only available in advance mode

| Num. | Icon | Name | Function |
|------|---|-----------|---|
| 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> |
| 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> |

| Num. | Icon | Name | Function | | | | | | |
|--|---|-----------------|--|-----------------------|---|------------------------|---|---------------------|--|
| 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). | | | | | | |
| <p>! You can press ALL to activate/disable all systems at once</p> | | | | | | | | | |
| 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> <table border="1" data-bbox="564 1397 743 1505"> <tr> <td>Basic</td> <td>Activated by default for human region</td> </tr> <tr> <td>Advance</td> <td>Open advanced region to activate advance body structure view in more details, for example (show all nerve system, blood vessels)</td> </tr> </table> <p>! Default region view is basic view</p> | Basic | Activated by default for human region | Advance | Open advanced region to activate advance body structure view in more details, for example (show all nerve system, blood vessels) | | |
| Basic | Activated by default for human region | | | | | | | | |
| Advance | Open advanced region to activate advance body structure view in more details, for example (show all nerve system, blood vessels) | | | | | | | | |
| 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. <table border="1" data-bbox="545 1939 759 2087"> <tr> <td>Manage Modules</td> <td>ability to edit or create new module to be customized</td> </tr> <tr> <td>Forsina Modules</td> <td>View pre-created modules from Forsina</td> </tr> <tr> <td>User Modules</td> <td>View Modules created and customized by the user.</td> </tr> </table> <p>! creation modules can be from scratch or by cloning any available one</p> | Manage Modules | ability to edit or create new module to be customized | Forsina Modules | View pre-created modules from Forsina | User Modules | View Modules created and customized by the user. |
| Manage Modules | ability to edit or create new module to be customized | | | | | | | | |
| Forsina Modules | View pre-created modules from Forsina | | | | | | | | |
| User Modules | View Modules created and customized by the user. | | | | | | | | |

Mouse + Mac touchpad Controls



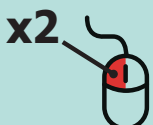
Rotate camera



Right click menu



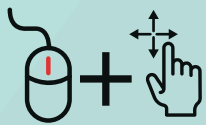
select, move, functions



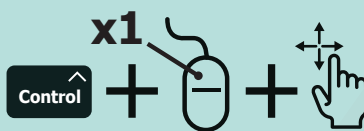
Focus on body part



↑ Zoom in
↓ Zoom out



Pan camera



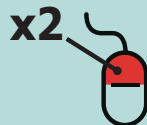
Rotate camera



Right click menu



select, move, functions



Focus on body part



↑ Zoom out
↓ Zoom in



Pan camera



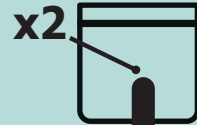
Rotate camera



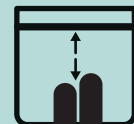
Right click menu



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