

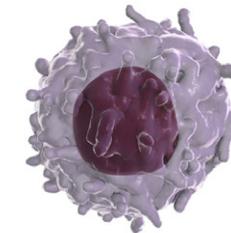
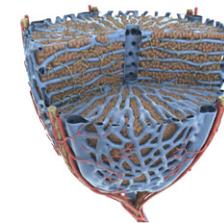
Primal's 3D Anatomy and Physiology

ON

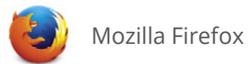
Desktop

Welcome to our user guide to **3D Anatomy and Physiology** on desktop. Please read on, or select one of the links opposite to jump straight to a particular topic.

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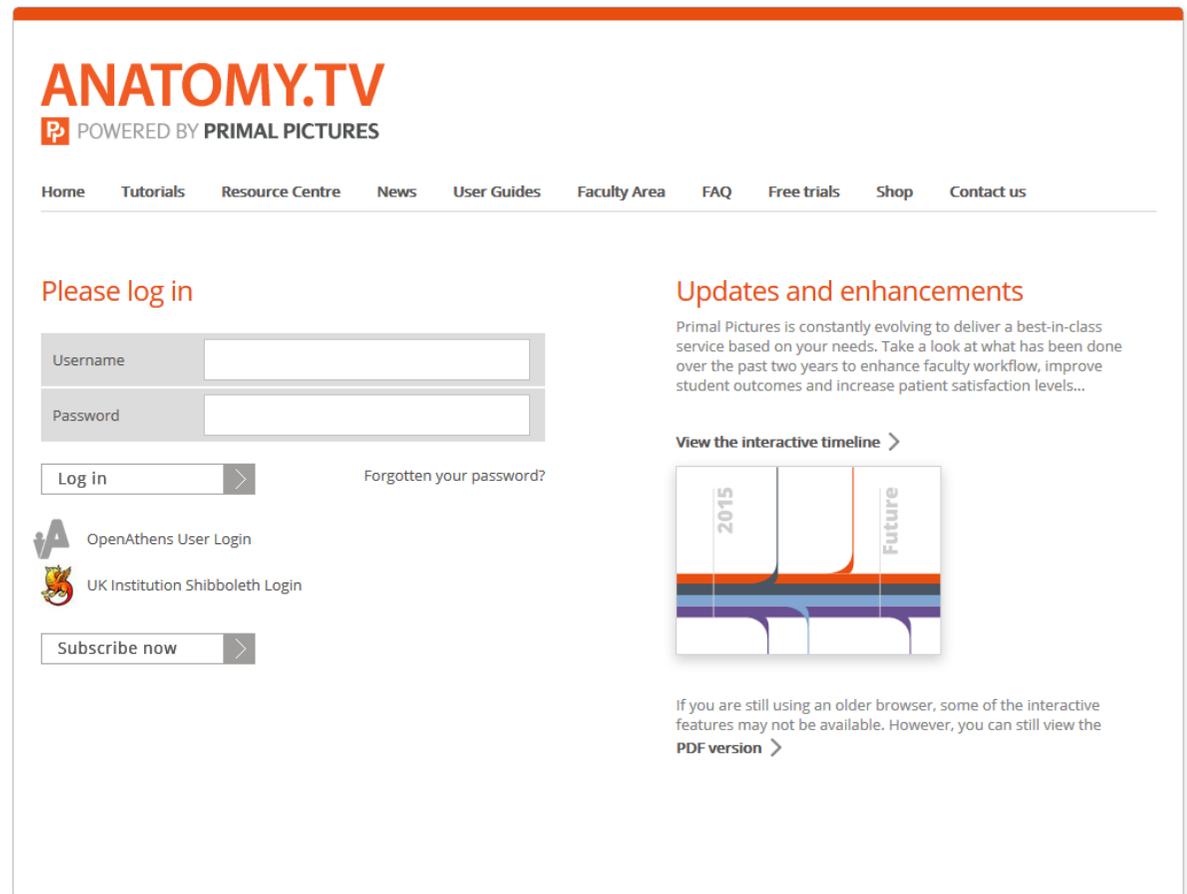


For an optimum experience we recommend using one of the following web browsers for using anatomy.tv.



Open your web browser and type www.anatomy.tv into your address bar or browser search field.

This takes you to the **Home** page:



The screenshot shows the Anatomy.tv website home page. At the top, the logo "ANATOMY.TV" is displayed in large orange letters, with "POWERED BY PRIMAL PICTURES" underneath. A navigation menu includes links for Home, Tutorials, Resource Centre, News, User Guides, Faculty Area, FAQ, Free trials, Shop, and Contact us. The main content area is divided into two columns. The left column is titled "Please log in" and contains a login form with fields for "Username" and "Password", a "Log in" button, and links for "OpenAthens User Login" and "UK Institution Shibboleth Login". Below the login form is a "Subscribe now" button. The right column is titled "Updates and enhancements" and contains a paragraph of text about the service's evolution, a link to "View the interactive timeline", and a small graphic showing a timeline from 2015 to Future. At the bottom of the right column, there is a note about browser compatibility and a link to the "PDF version".

Please type your username and password in the subscriber login fields.

Note that if your institution is IP authenticated you will be taken to the products page automatically without having to log in so you will not see this page and login area

If you are an Athens or Shibboleth user or wish to access our site from a proxy URL you must provide us with the technical information or refer us to your IT department so we can set you up on our system

The screenshot shows the Anatomy.tv website's login interface. At the top, the logo 'ANATOMY.TV' is displayed in orange, with 'POWERED BY PRIMAL PICTURES' below it. A navigation bar contains links for Home, Tutorials, Resource Centre, News, User Guides, Faculty Area, FAQ, Free trials, Shop, and Contact us. The main content area is divided into two columns. The left column is titled 'Please log in' and contains a login form with fields for 'Username' (containing 'myUserName') and 'Password' (masked with dots). Below the form are 'Log in' and 'Forgot your password?' buttons, and links for 'OpenAthens User Login' and 'UK Institution Shibboleth Login'. A 'Subscribe now' button is at the bottom of the left column. The right column is titled 'Updates and enhancements' and contains a paragraph of text and a 'View the interactive timeline >' link. Below the link is a timeline graphic with '2015' and 'Future' markers. At the bottom of the right column, there is a note about browser compatibility and a 'PDF version >' link.

The top navigation bar offers a number of useful links – you may find the **Tutorials** link, which takes you to our in-depth video tutorials page, particularly useful

The **Resource Centre** links to a stock of anatomy.tv and Primal Pictures information and publicity resources

Once you have entered a valid username and password you'll be taken to the product launch area of the **Home** page.

If you have your own personal subscription this area is available for you to view and edit

Our titles are split into categories which can be accessed on the left-hand side tab menu

Which titles appear here will depend upon your subscription

LOG OFF

Once you have finished your session, please ensure you use the **LOG OFF** button or you may not be able to log in again until after the time-out period (default time-out is 15 minutes)

The titles included in your subscription will appear as icons in the right pane

Products which are also accessible via iPad, Android or Windows tablets are indicated by the relevant icon

Select the **Anatomy & Physiology** tab to show the module launch tiles.

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POWERED BY PRIMAL PICTURES

Home Tutorials Resource Centre News User Guides Faculty Area FAQ

John Smith
Primal Subscriber

3D Atlas
3D Real-time
Anatomy & Physiology
Functional Anatomy
Imaging
Clinical Specialties
Therapy
Language Editions
Other Products
Quizzes and Activities

Modules Search Index

BODY PLAN AND ORGANIZATION	CHEMISTRY	CELL BIOLOGY	HISTOLOGY	INTEGUMENTARY SYSTEM
SKELETAL SYSTEM	MUSCULAR SYSTEM	NERVOUS SYSTEM	SPECIAL SENSES	ENDOCRINE SYSTEM
BLOOD	CARDIOVASCULAR SYSTEM	LYMPHATIC SYSTEM AND IMMUNITY	RESPIRATORY SYSTEM	DIGESTIVE SYSTEM
METABOLISM	URINARY SYSTEM	FLUID, ELECTROLYTE & ACID-BASE BALANCE	REPRODUCTIVE SYSTEM	DEVELOPMENT AND INHERITANCE

Anatomy & Physiology tab

The **Modules** tab is selected by default. When selected you can see all the module launch tiles

This icon indicates that Anatomy and Physiology modules can also be viewed on Android and iPad tablets. See the separate [user guides](#) for details

Selecting the 'i' (information) icon allows you to preview the content of an individual module. You can then launch that module from the preview box...

... alternatively, if you wish to launch the module straight away, select the picture tile itself

Module interface – Overview

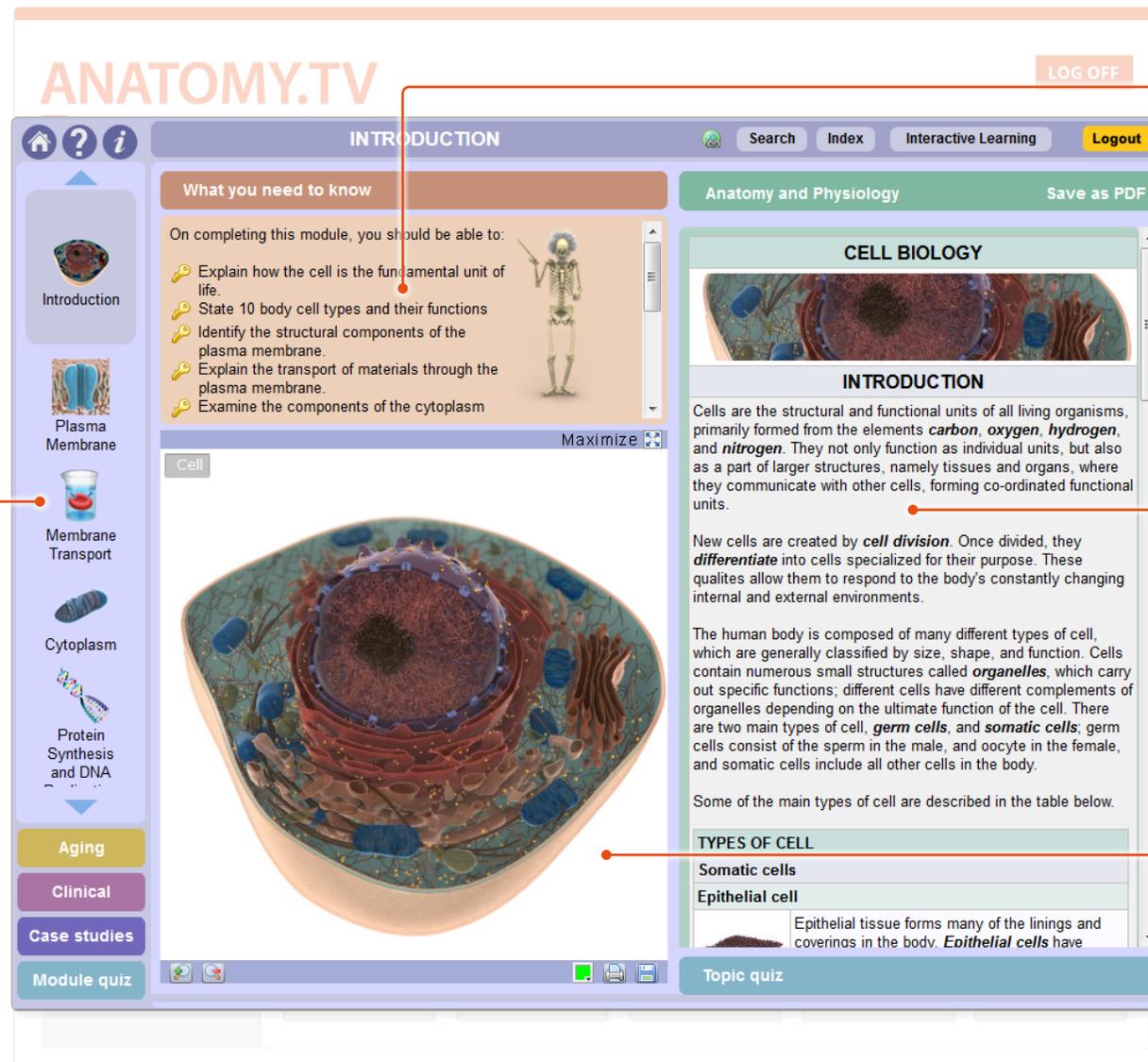


Once you have selected a module it will appear in a separate browser window.

The module interface is split into four main areas.

1 Navigation menu

The module's topics are listed here



2

What you need to know

Summarizes the content you should be able to understand after studying each topic

3

Text pane

Contains comprehensive anatomy text with embedded multimedia links, as well as links to supplementary interactive learning activities

4

Viewing window

Here you will see illustrations, animations and the 3D model

Module interface – Navigation menu



The three buttons above the Navigation menu allow you to access other modules, as well as more help

The screenshot shows a vertical navigation menu on the left with icons for home, help, and information. Below these are topic tiles for Introduction, Plasma Membrane, Membrane Transport, Cytoplasm, and Protein Synthesis and DNA. At the bottom of the menu are buttons for Aging, Clinical, Case studies, and Module quiz. To the right, callouts describe these elements: 'Your subscription' (home icon), 'Help' (question mark icon), 'Module guide' (info icon), and 'Additional content buttons' (Aging, Clinical, Case studies, Module quiz).

Your subscription
Click this button to see all the module launch tiles
Selecting a different title will launch it in the browser window

Help
Launches text-based help in a new browser window
In-depth video help files can be found on the [anatomy.tv Tutorials page](#)

Module guide
This gives an overview of the content of the module
From here, you may also access a brief instructional video detailing the main features and functions of the module interface

Additional content buttons
The four buttons below the Navigation menu allow you to access specialized additional content for the module

Aging
Learn about how aging affects the relevant body system

Clinical
Learn about common clinical conditions associated with a particular body system

Case studies*
Case studies are an excellent way to test your knowledge once you have completed a module

Module quiz*
Test your knowledge across the entire module. You may want to take the [topic quizzes](#) at first to practice

1 Navigation menu

The module's topics are listed and selected here

Each topic is represented by a thumbnail image and title - clicking on either will update the text in the text pane

If a module contains more than six topics, up and down arrows will become visible. Simply move your mouse pointer over the arrow to scroll up and down the menu

* Only available if enabled by your course supervisor

Module interface – What you need to know



2

What you need to know

This area contains a series of learning objectives, describing the key anatomy and physiology content covered within each topic

The objectives can also be used as revision aids when you come to review the topic

If you need to revise any content, the blue links within each set of objectives take you directly to the relevant place in the main anatomy and physiology **text pane**

What you need to know

On completing this topic, you should be able to:

- Locate and identify the origin, insertion, and action of the [flexor muscles of the neck](#).
- Locate and identify the origin, insertion, and action of the [extensor muscles of the neck](#).

MUSCLES OF THE NECK

The muscles of the neck move the head, working together to act on the cervical spine, and control swallowing. There are deep, intricate muscles, which help to stabilize the cervical spine, and larger, external muscles that flex and extend the neck.

The muscles of the neck can be broadly split up regionally into the *flexors* and *extensors* of the neck.

FLEXORS OF THE NECK

The flexors of the neck draw the neck forward to flex it. They consist of the *sternocleidomastoid* and *scalene* muscles.

Sternocleidomastoid

A long, thick muscle located at the side of the neck.

	Origin	Clavicle. Sternum: manubrium.
	Insertion	Temporal bone: mastoid process.
	Action	Both muscles acting together flex the neck. Acting individually, the muscle draws the head to that shoulder.

3

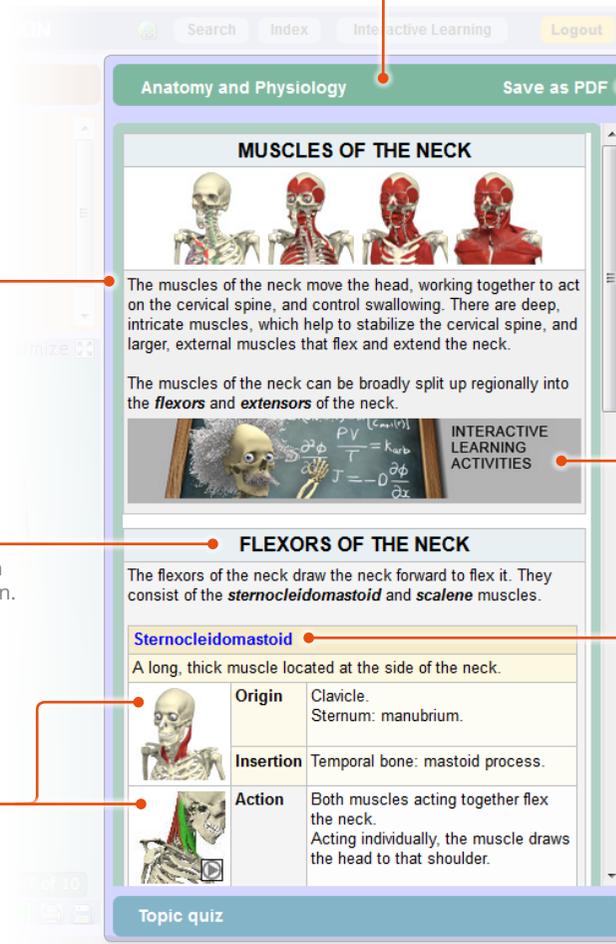
Text pane

The Anatomy and Physiology text is clearly and concisely written, and is presented in easily digestible units of information to help facilitate learning

Each topic page begins with introductory text, providing an overview to the subjects covered in that page

The Anatomy and Physiology content is then broken down into small tables of information. These are clearly marked by a topic title

You may also find additional tables containing images relating to the topic text. Clicking on these thumbnails will open the images in the main viewing window



If you wish to continue reading the topic offline, you can save each topic page out as a PDF

Within the topic text, you may also find links to interactive learning activities

Clicking on blue text links will highlight the relevant anatomy structure on a 3D model in the main viewing window

Module interface – Viewing window



4

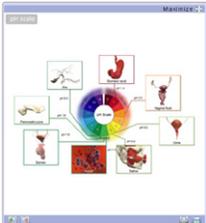
Viewing window

The viewing window can show 3D sequences, animations, illustrations, clinical slides and dissection slides

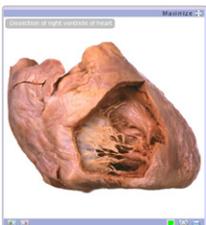
ANIMATION



ILLUSTRATION SLIDE



DISSECTION SLIDE



MAXIMIZED 3D SEQUENCE

Muscles of the head and neck

Key structures ON OFF

- Attachments of corrugator supercillii
- Attachments of depressor anguli oris
- Attachments of depressor labii inferioris
- Attachments of intercostal muscles and membranes
- Attachments of latissimus dorsi
- Attachments of levator anguli oris
- Attachments of levator labii superioris
- Attachments of longus colli
- Attachments of mentalis
- Attachments of nasalis
- Attachments of orbicularis oculi
- Attachments of pectoralis major
- Attachments of pectoralis minor
- Attachments of platysma
- Attachments of procerus
- Attachments of rectus capitis anterior
- Attachments of scalenes
- Attachments of serratus anterior
- Attachments of sternocleidomastoid
- Attachments of temporalis
- Attachments of trapezius

What you need to know

On completing this topic you will be able to:

- Locate and identify the action of the flexor digitorum profundus
- Locate and identify the action of the extensor digitorum profundus

3D SEQUENCE

Muscles of the head and neck

Maximize

Layer 1 of 13

Frame 3 of 36

Layer 1 of 13

The **Maximize** button gives you an enlarged view with a clickable list of visible structures

Clicking on a structure in the list will highlight it in the viewer

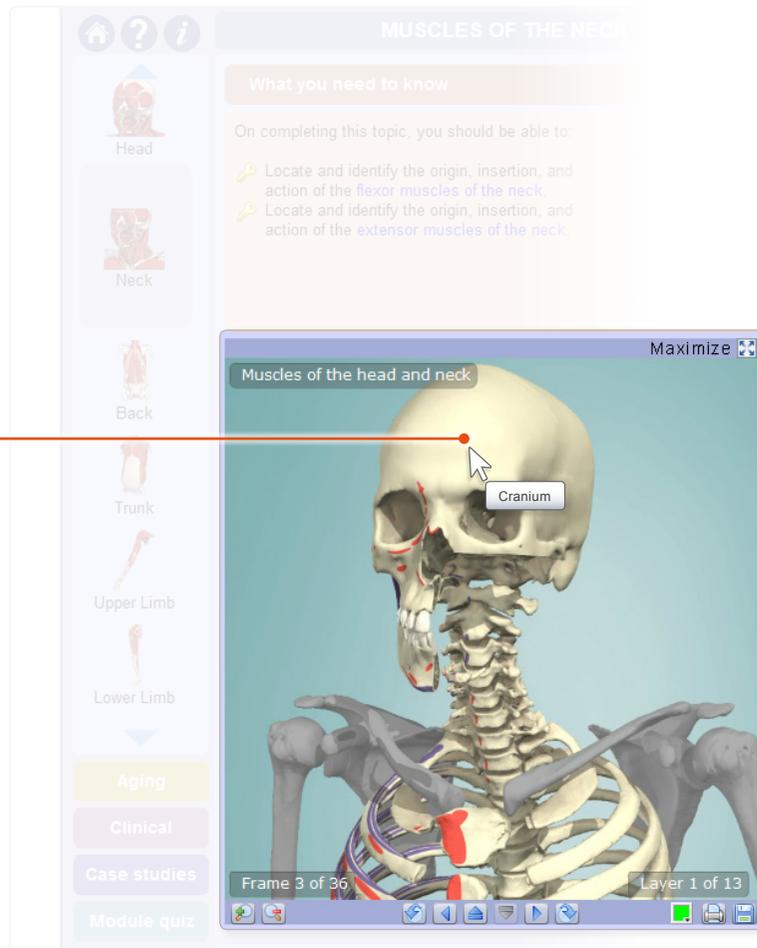
Viewer toolbar

Interacting with the 3D model – Identifying and selecting structures

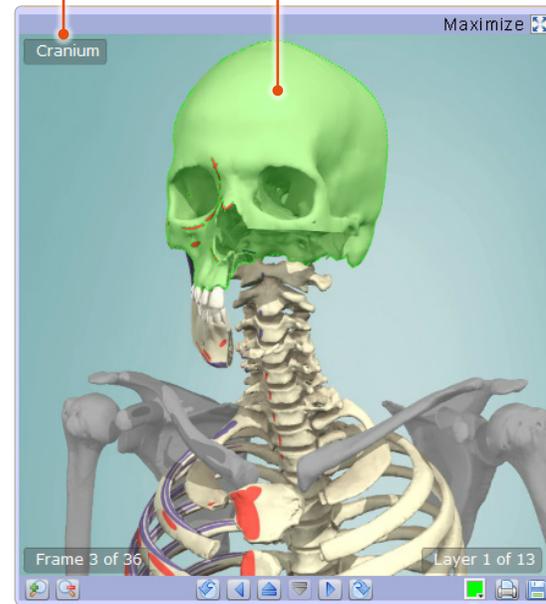


All 3D images and 3D views feature rollover labels to help you identify structures.

1
Hovering over a structure with your mouse pointer will reveal the structure's name



2
Clicking on the structure will highlight it. The name of the structure will update



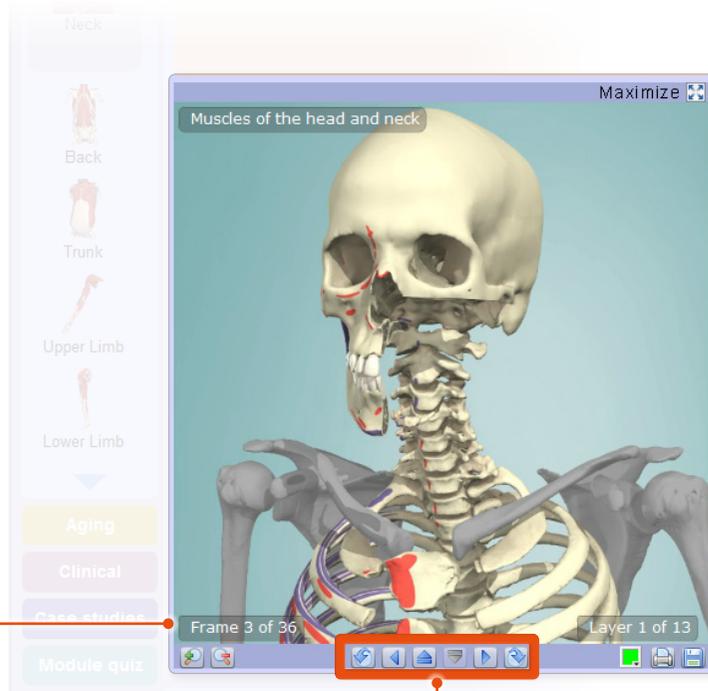
3
You can choose a different highlight color here

Interacting with the 3D model – Sequences



Every 3D view features a sequence of images. These 3D sequences usually take the form of rotations, enabling you to study the anatomy through 360 degrees.

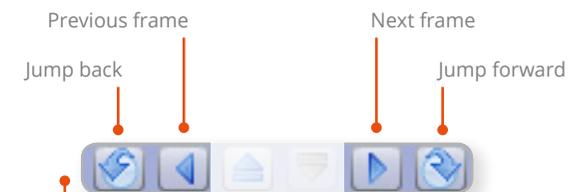
FRAMES IN A ROTATION SEQUENCE



The current frame and total number of frames is shown here

Frame controls

Control the sequence playback using the frame controls on the 3D viewer toolbar:

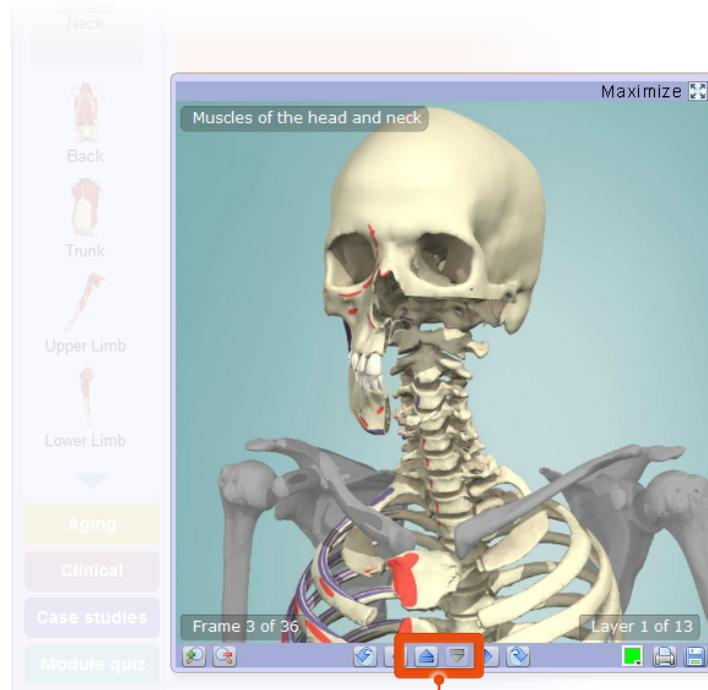


Interacting with the 3D model – Layers

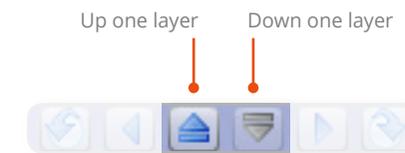


All 3D views also feature numerous layers allowing you to study the relationships between the anatomical structures.

MOVING UPWARD THROUGH THE LAYERS



Move through the layers using the layer controls on the 3D viewer toolbar:



Layer controls

Interacting with the 3D model – Other controls



The **zoom** controls allow a closer look at the model. Click and drag on the image to view different parts of the zoomed image.



Note that the image will become less sharp as you zoom in – if you wish to see an area in more detail it is better to find the relevant topic and view the close-up images there.

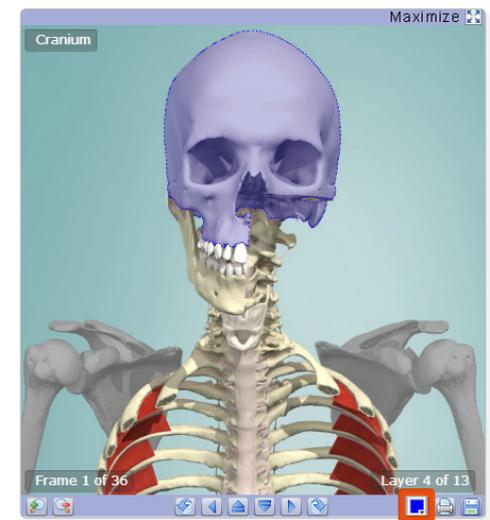
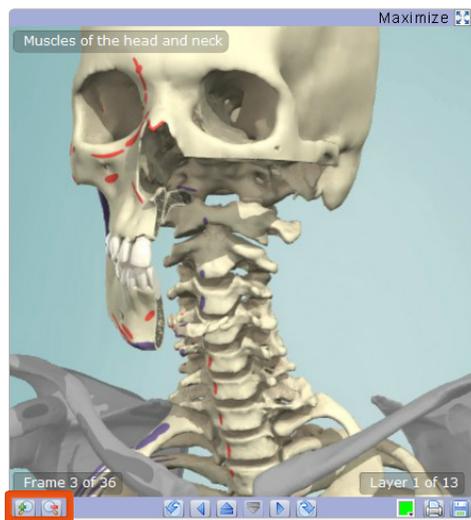
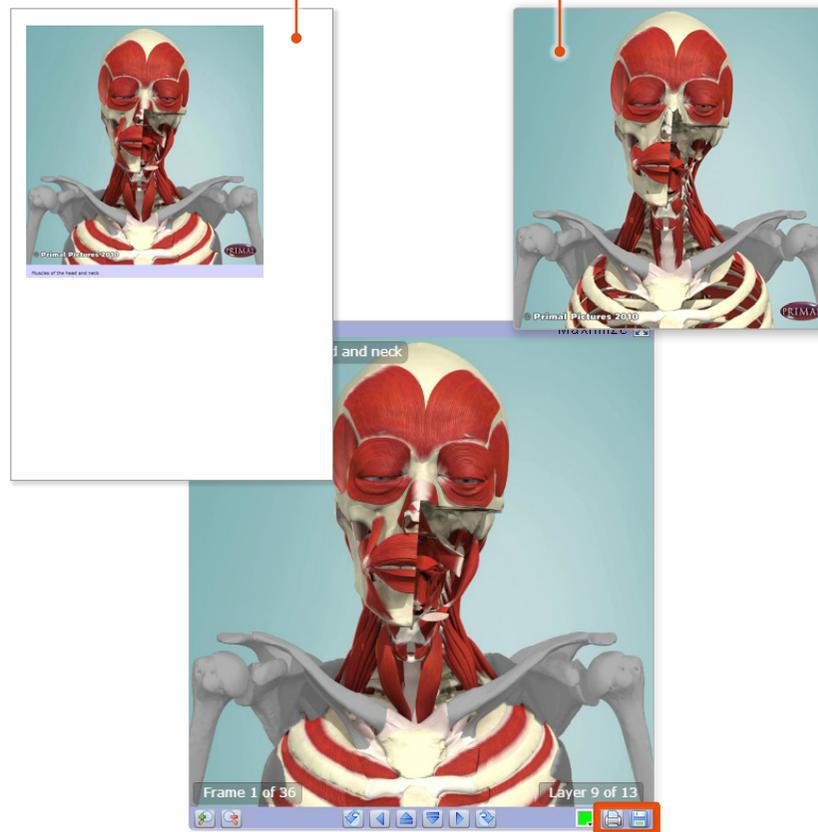
You can **save** or **print** views, enabling you to add them to presentations, lecture notes, and learning management systems.



You can choose from a wide range of **highlight colors**, so that your selected structure stands out from the those around it.



Choose highlight color



Finding content – Search all modules



If you know the name, or part of the name, of a structure you can locate it using the **Search** feature.

To search for structures throughout all of the Anatomy and Physiology modules, use the Search feature located on the main Anatomy & Physiology tab

1

Type your search term here

7

Clicking on the orange link will open the associated module and show the relevant content

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Functional Anatomy
Imaging
Clinical Specialties
Therapy
Language Editions
Other Products
Quizzes and Activities

Modules Search Index

lungs

Titles 3D Views Slides Movies Pick Modules

- ▼ Histology
 - ▼ In 3D Views (1)
 - Lungs (3D view) (Connective Tissue)
- ▼ Nervous System
 - ▼ In Titles (2)
 - Parasympathetic nervous system: lungs (Autonomic Nervous System)
 - Sympathetic nervous system: lungs (Autonomic Nervous System)
- ▼ Respiratory System
 - ▼ In Titles (8)
 - Apex of lungs (Lower Respiratory Tract)
 - Base of lungs (Lower Respiratory Tract)
 - Compliance of the lungs (Pulmonary Ventilation)
 - Fissures of lungs (Lower Respiratory Tract)
 - Hilum of lungs (Lower Respiratory Tract)
 - Lobes of lungs (Lower Respiratory Tract)
 - Lungs (Lower Respiratory Tract)
 - Root of lungs (Lower Respiratory Tract)
 - ▼ In 3D Views (1)

2

You can narrow your search to only certain types of content using these checkboxes

3

Use the **Pick Modules** feature if you wish to limit your search to only certain modules

4

Click on the orange arrow, or press return on your keyboard, to display the search results

5

Your results will appear here, grouped by module, then by content type: Title, Slide, Movie, 3D View or Topic

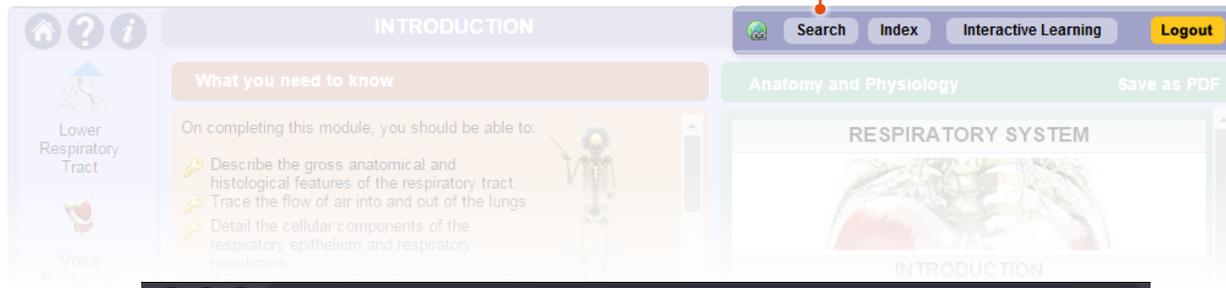
6

The gray text shows which topic title the search result falls under

Finding content – Search within a module



To search for content **within** the current module, use the **Search** button on the module's top toolbar

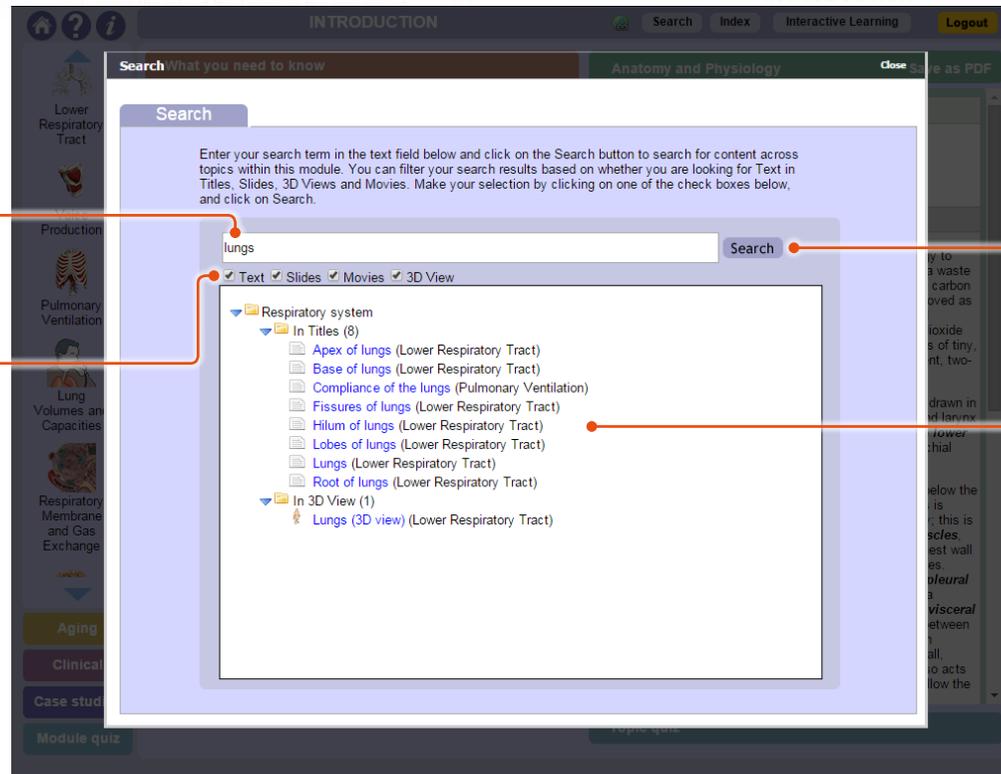


1

Type your search term here

2

You can narrow your search to only certain types of content using these checkboxes



3

Click on the Search button, or press return on your keyboard, to display the search results

4

Your results will appear here, grouped by content type: Title, Slide, Movie or 3D View

Finding content – Index: all modules



The **Index** tab on anatomy.tv provides links to content throughout all of the Anatomy and Physiology modules

1

Select the initial letter (or number) of the content you wish to locate

2

The Index will scroll to the initial letter (or number) you have selected

7

The type of content is indicated by the icon preceding the link: Title, Slide, 3D View, Animation or Topic

8

Clicking on the orange link will open the associated module and show the relevant content

3

Faded characters indicate that there is no content with that initial letter (or number)

4

Use the **Pick Modules** feature if you wish to limit your search to only certain modules

5

The gray text shows which topic title the index entry falls under

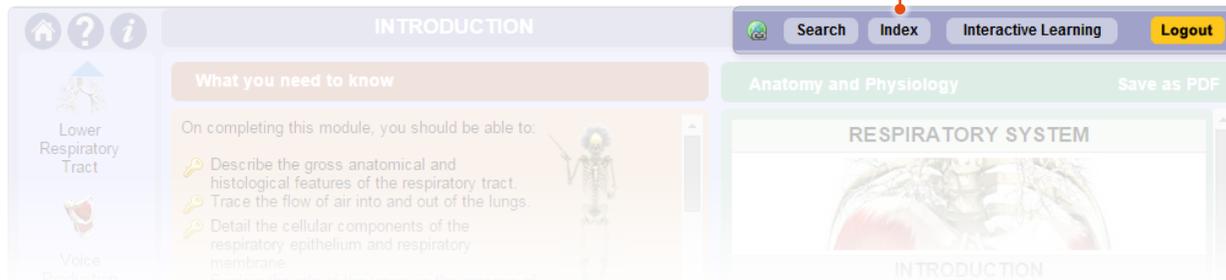
6

Clicking on the speaker icon allows you to hear the pronunciation of that structure name, or term

Finding content – Index: within module



You can access each module's content list using the Index button on the top toolbar



1

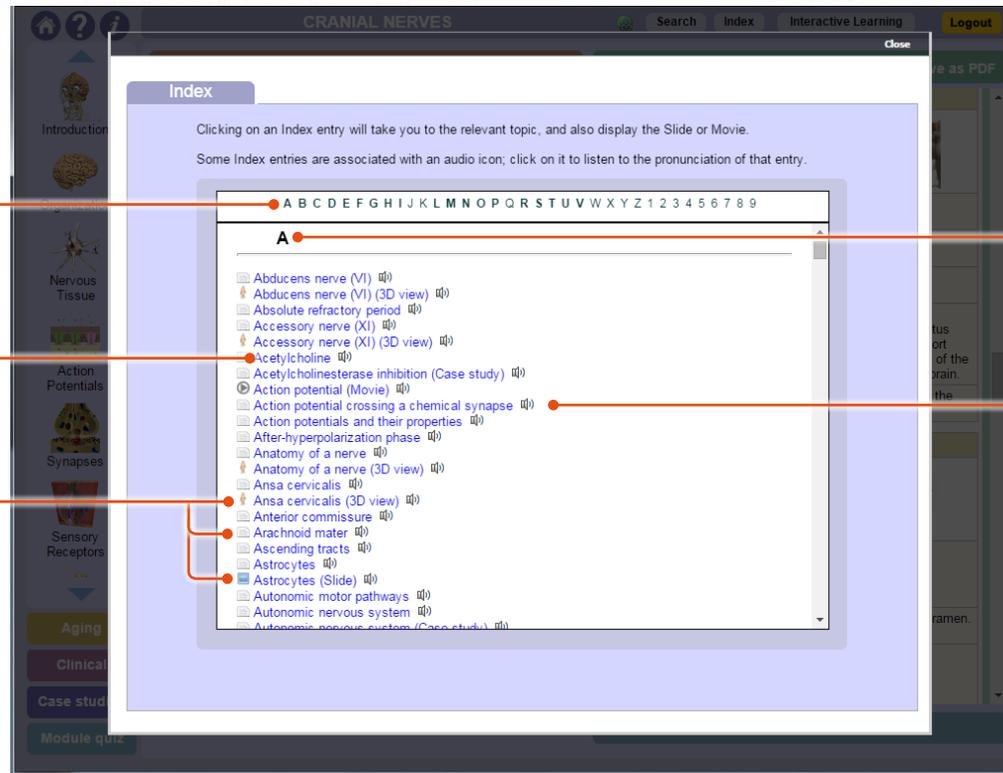
Select the initial letter (or number) of the content you wish to locate

5

Select the blue link to view the relevant content

4

The type of content is indicated by the icon preceding the link: Title, Slide, 3D View, Animation or Topic



2

The Index will scroll to the initial letter (or number) you have selected

3

Clicking on the speaker icon allows you to hear the pronunciation of that structure, or term

Sharing content with other users – Copy weblink

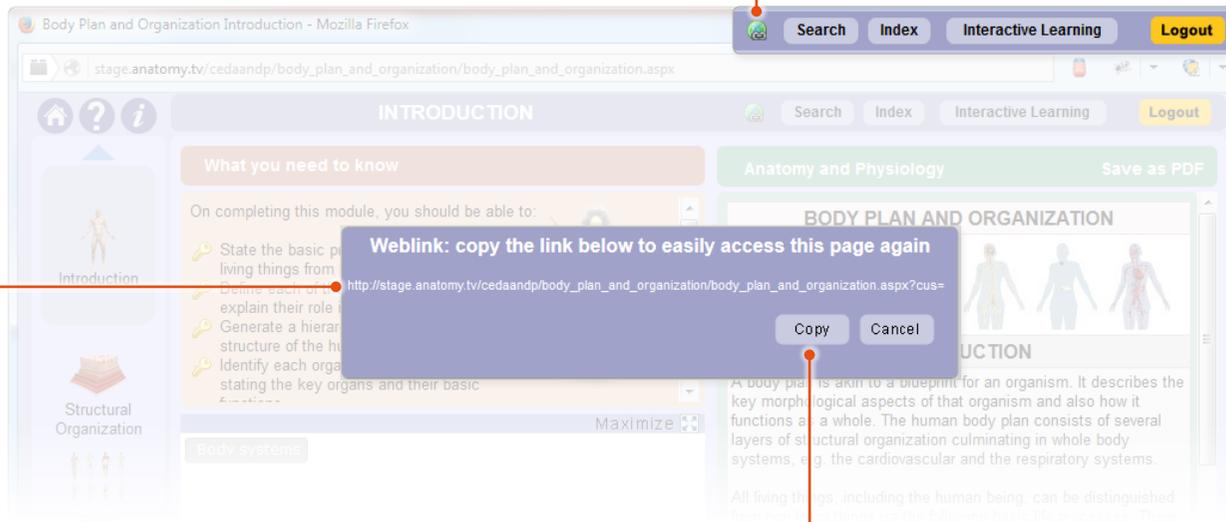


1

You can direct other users to specific content using the **Copy weblink** button...

2

... a unique web address is generated



3

Click the copy button

4

You can then share this web address with anyone who has an active subscription to Human Anatomy and Physiology – they can click on the link and access the exact piece of content you want to share with them

You can also use this web address to provide a direct link to content from within lesson plans and course material or simply embed it into course information directly within an LMS platform

- Lesson plans
- Course material
- Email
- LMS platforms
- Presentations

Applying your knowledge – Quizzes



Once you have digested the information covered in each topic, you can test your knowledge by taking a quiz.

The screenshot shows a web-based quiz interface. At the top, there's a navigation bar with 'INTRODUCTION', 'Search', 'Index', 'Interactive Learning', and 'Logout'. Below this is a sidebar with various topics: 'Introduction', 'Structural Organization', 'Body Systems', 'Principles of Homeostasis', 'Anatomical Language', 'Aging', 'Clinical', 'Case studies', and 'Module quiz'. The main content area displays a quiz question: 'Which of the following characteristics distinguish living things from non-living things?' with a point value of 1. The question allows for multiple selections. The options are: excretion, growth, size, reproduction, and weight. A 'SUBMIT' button is located at the bottom right of the question box. The score so far is 0 points out of 0. A 'Close' button is in the top right corner of the quiz window. Below the quiz, there are several human silhouettes and a 'Topic quiz' button.

1

Topic quizzes* cover the Anatomy and Physiology content of a particular topic

2

The **Module quiz*** tests your knowledge across all the topics contained within the module. You may wish to take the individual Topic quizzes first to practice

* Only available if enabled by your course supervisor

3

You can skip a question by using the question drop-down box in the top left corner. You can revisit this question at any time, however you must submit an answer in order to complete the quiz

4

Once you have selected your answer to a question, click the **Submit** button, located here. Once you have submitted your answer, it cannot be amended. The result will be displayed immediately

At the end of each quiz, you will be able to see your points total, indicating whether or not you have passed

You will be able to review the quiz questions and your answers against the correct responses

Applying your knowledge – Case studies



Case studies* are also an excellent way to test your knowledge once you have completed a module.

1

Case studies include questions to test your knowledge and understanding of the causes, symptoms, diagnosis, and treatment of common clinical conditions

2

Click the Reveal answer buttons to check if your responses are correct

* Only available if enabled by your course supervisor

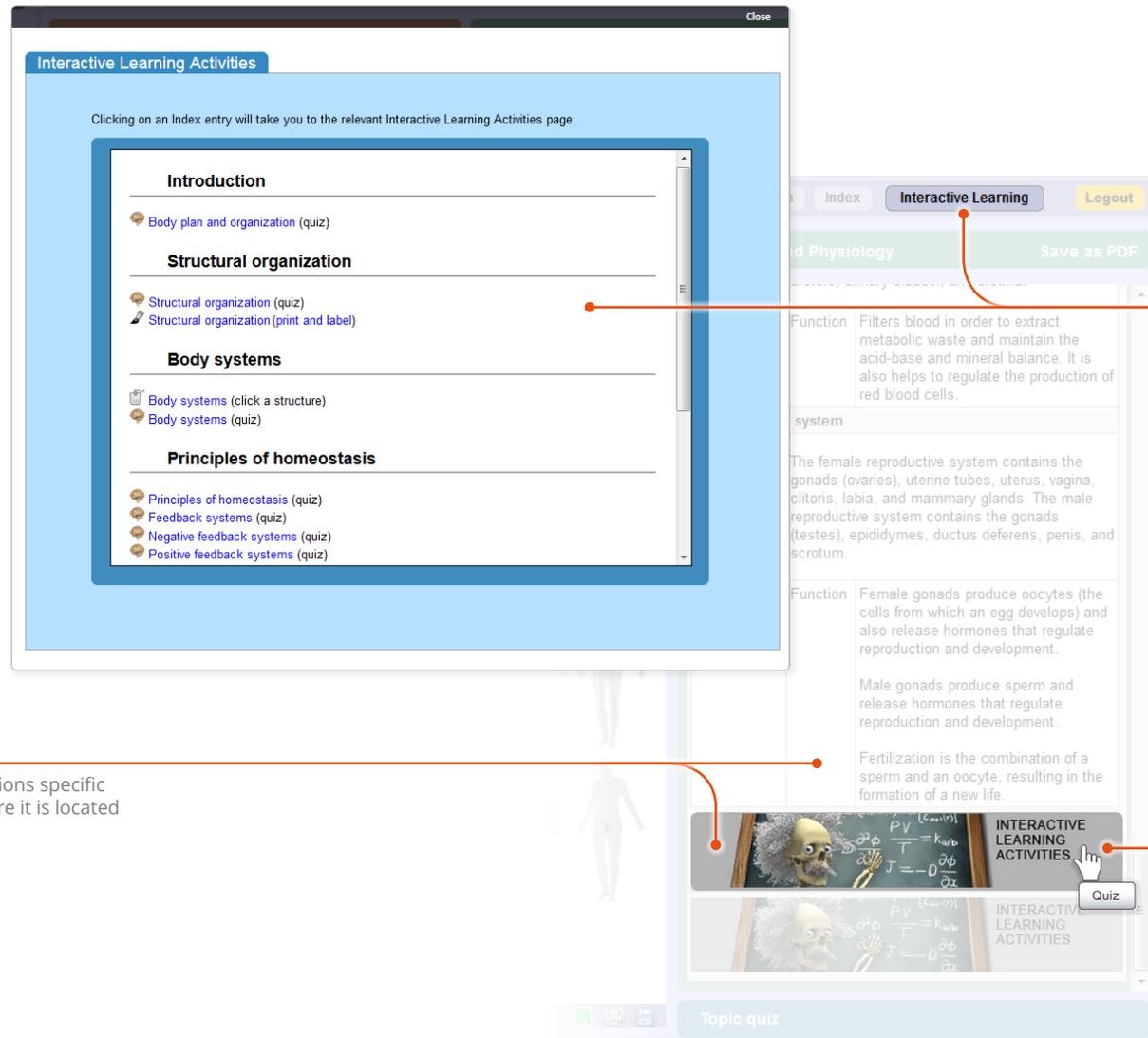
Applying your knowledge – Interactive learning activities: overview



Interactive learning activities have similar functionality to the topic and module quizzes. However, their content is specific to the section of text containing the activity banner.

The activities comprise:

- Quizzes
- Click a structure
- Coloring book
- Print and label



1

The banner links to questions specific to the section of text where it is located

3

Alternatively, you can access any of the activities contained in the module via the **Interactive Learning Activities** contents list

2

You can hover over the banner to preview which type of activity it links to

Click on the banner to access the activity

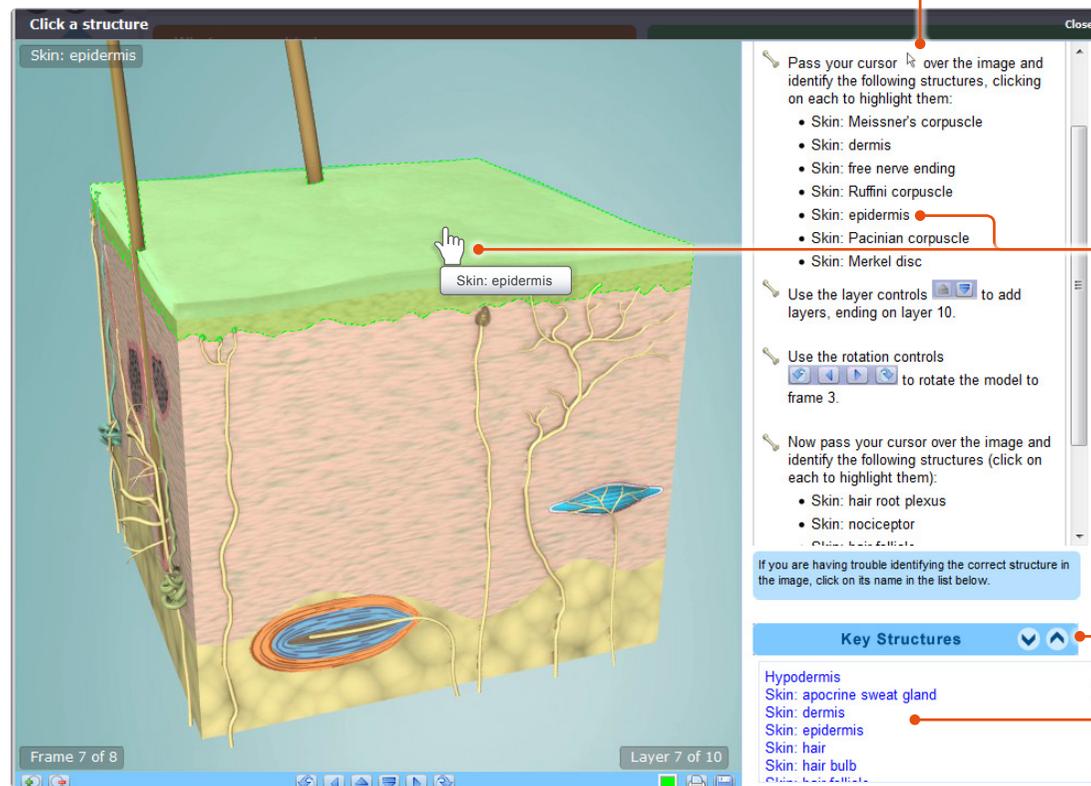
Applying your knowledge – Interactive learning activities: click a structure



Click a structure allows you to consolidate knowledge of key structures by carefully guiding you to interact with selected 3D models and illustrations.

1

This activity challenges you to identify the structures listed in the right-hand side panel



2

Try to identify the structure visually before hovering or selecting to confirm your answer

3

If you have trouble finding any of the structures, a list of Key Structures is provided at the bottom right of the page

The list can be expanded by clicking on the arrows

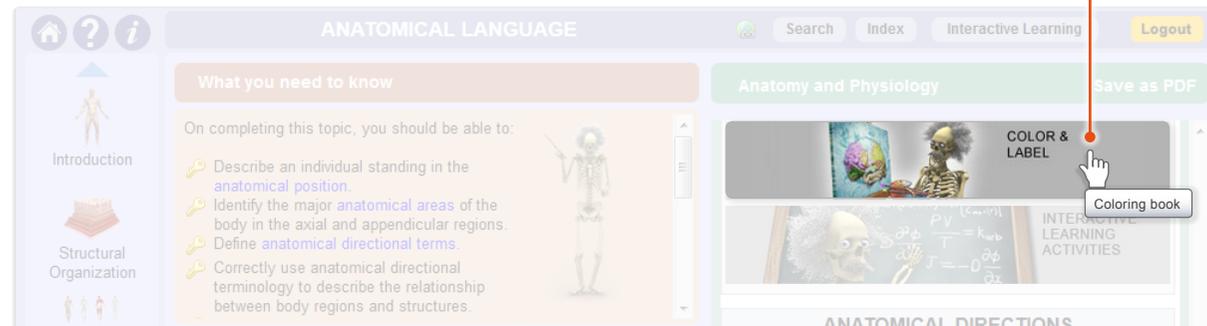
Applying your knowledge – Interactive learning activities: color & label



The **Color & label** banners allow you to download two types of interactive learning activity:

- 1 Coloring book
- 2 Print and label

Hover over the banner to preview which type of activity it links to
Click on the banner to access the activity

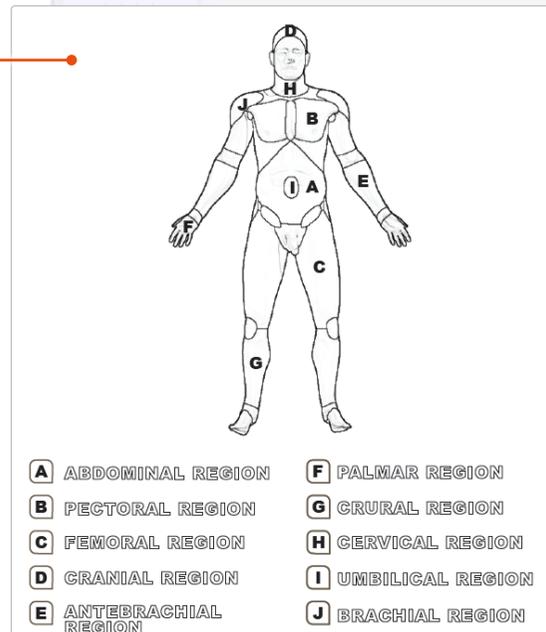


1

Coloring book activities help you learn relationships between anatomical structures through the use of color-coding

Color the structure name in the list below the image, and the corresponding structure on the model using the same color for both

The second page of the coloring book features an advanced level where either the structure name, or the letter guides have been removed to make the activity more challenging

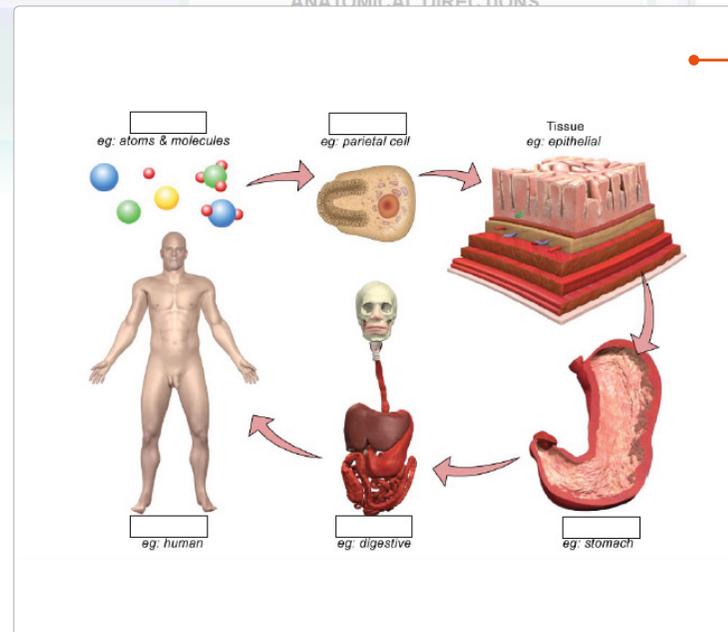


2

The print and label activities are designed to help you remember key anatomical and physiological principles

Each activity features an illustration with several blank labels, the aim is to fill in the blanks with the correct anatomical structures or physiological processes

If you need to refresh your memory, you can go back and find the full illustration within the module, at any time



Additional support for Faculty – Faculty area



1

A dedicated faculty area can be found on anatomy.tv

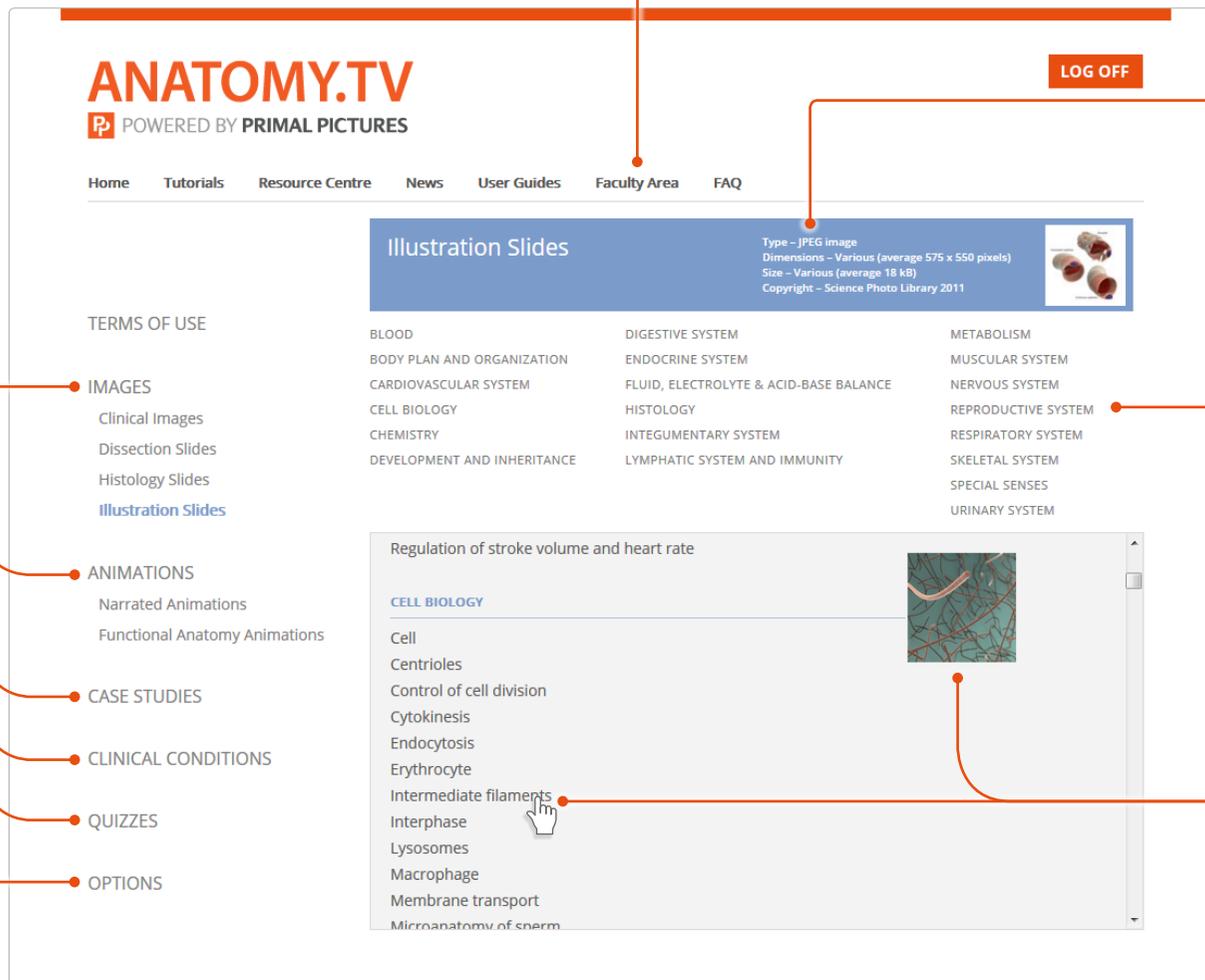
Click on the Faculty Area link in the top menu bar, and sign in using your own unique faculty login

2

The faculty area is designed to provide useful teaching aids, including images, animations, case studies, clinical conditions, and quizzes, in an easy to export format to supplement your teaching

6

The Options page allows Faculty to set whether Case studies and Quizzes are visible to students



3

The section header includes information about the content, such as the file type, dimensions, file size and copyright

4

Click on the module title to jump to the appropriate area of the content list

5

For the items in the IMAGES content lists, hovering over the title will reveal an image preview thumbnail

Click on the content title to download the asset