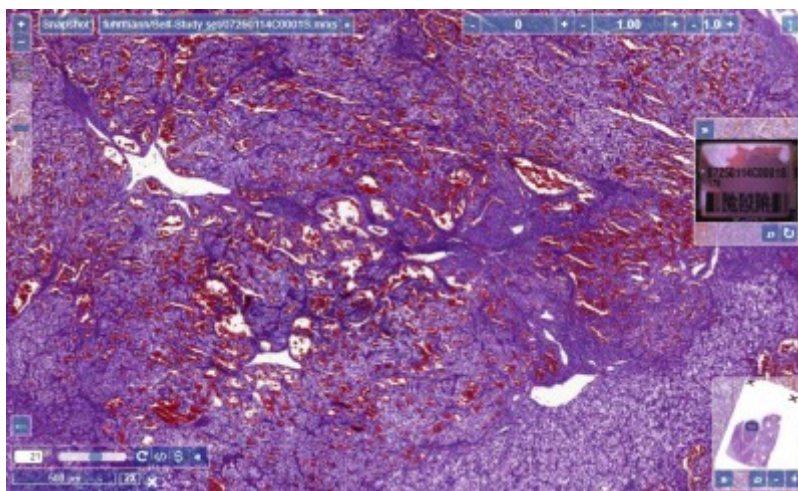


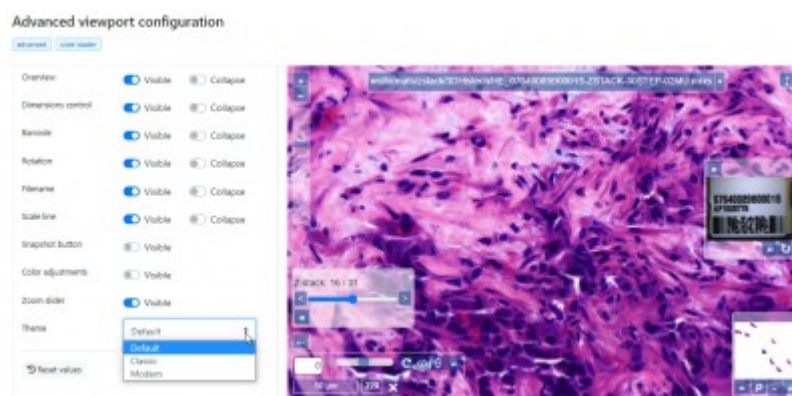
Looking at content (PMA.UI viewport)

PMA.core incorporates the [PMA.UI framework](#), which includes a versatile viewport for control.



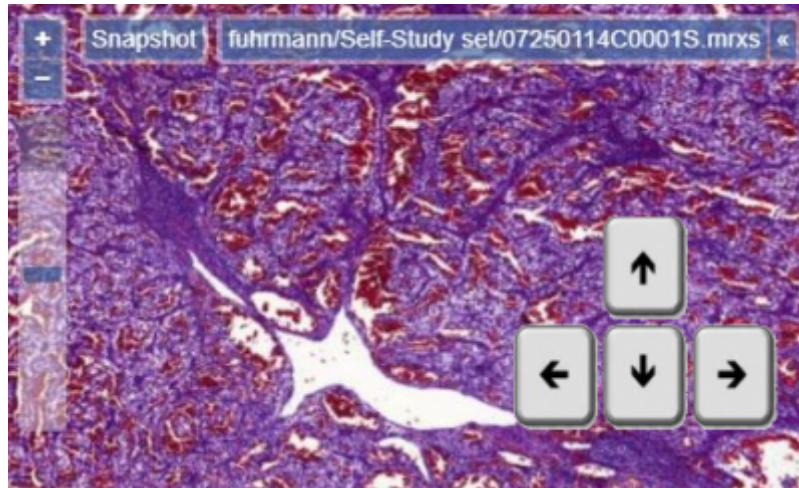
PMA.UI's viewport is web-based and independent; the front-end runs in the webbrowser of your choice. You can use it examine brightfield, fluorescent, and z-stacked slide content from the same environment.

The tile server ships with a default PMA.UI configuration. When embedded in downstream consumers like [PMA.studio](#) or in custom scenarios and [analytical pipelines](#) however, [much more customization is possible](#).

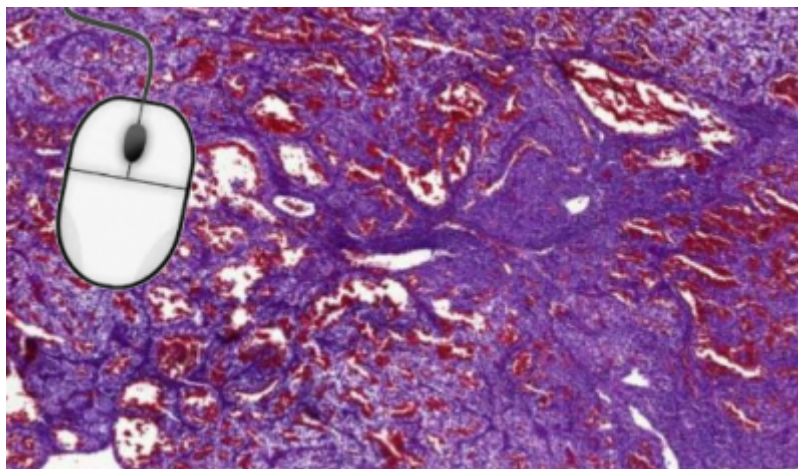


Getting around

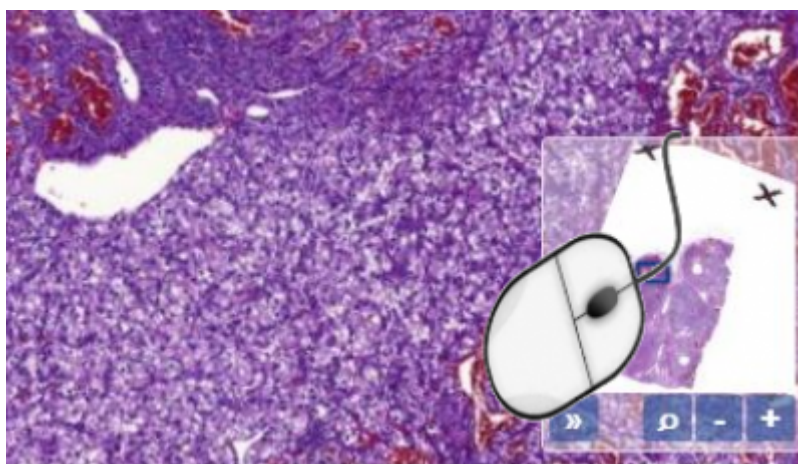
Use the arrow keys on your keyboard to move around



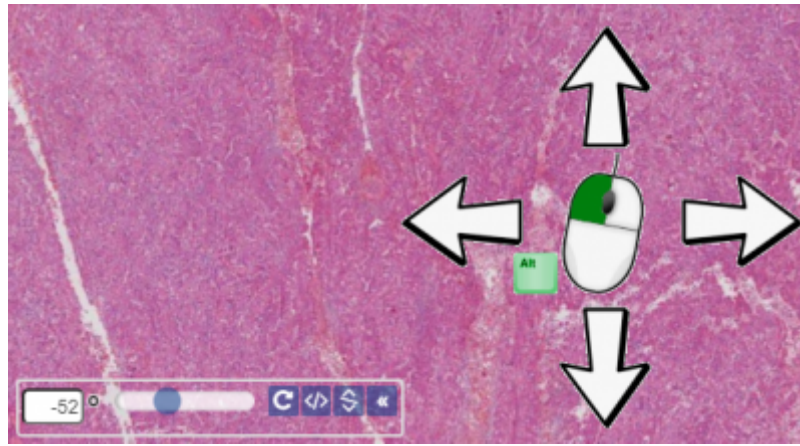
Click on the left mouse button, and move the mouse around, to move the slide around, too.



If you want to navigate somewhere quick, click anywhere in the overview image to immediately jump to that particular area at the current magnification.



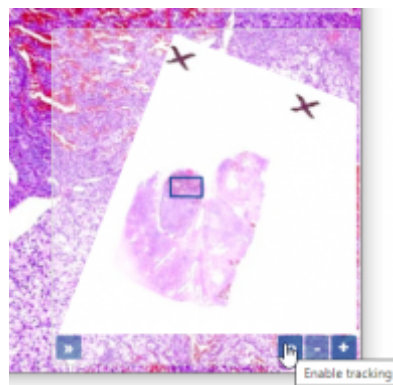
If you want to rotate a slide, use Alt + mouse movements. Alternatively, use the rotation widget in the bottom left of the screen for simpler mouse control, or to enter very precise rotation angles.



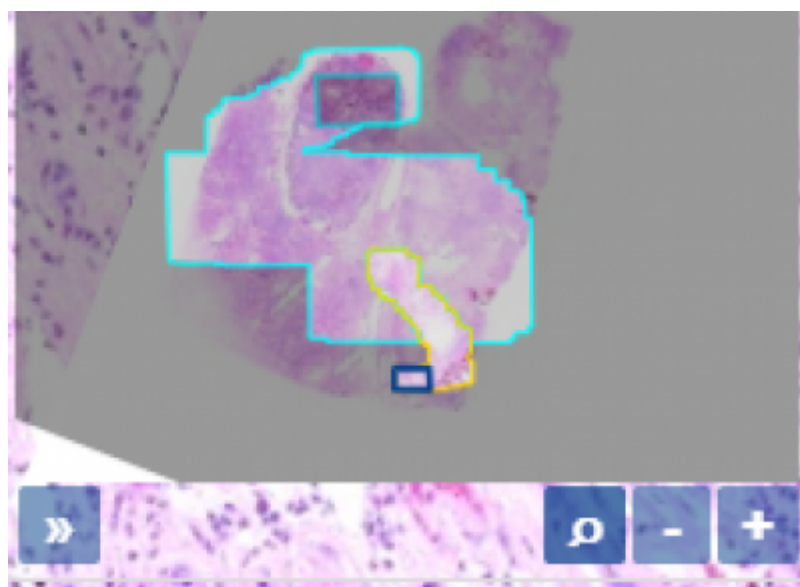
Zooming in

Keeping track

The thumbnail widget has a special button that allows you to track your progress throughout a slide:



Once enabled, a gray overlay covers your slide's thumbnail, with pieces of it gradually disappearing, as you start navigating your slide. The zoomlevel at which you inspect a specific region of interest, influences the outline color in the tracking screen.



This kind of tracking is instantaneous and ad-hoc. When you close the viewport, it disappears, and its history is not logged. If you're interested in tracking viewing operations over time and across your use population, you should have a look at the [heatmap](#) functionality instead.

Color control

The default PMA.UI representation in PMA.core shows a color correction widget in the top-right corner of the viewport.



Use it to control brightness, contrast, and gamma correction.

Fluorescent content

Z-stacked content

From:

<https://docs.pathomation.com/pma.core/2.0.0/> - PMA.core 2.x

Permanent link:

<https://docs.pathomation.com/pma.core/2.0.0/doku.php?id=viewport&rev=1644245623>

Last update: **2022/02/07 17:53**

