

Using Spatial Awareness to set Patterns During Mohs Tissue Processing

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Target Audience- Novice

Spatial Awareness

The awareness of the body in space.

Knowledge of Objects in relation to Space.

Organized awareness of objects in the space around us.

Understanding objects when they change

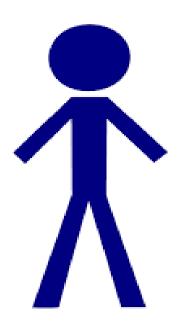
Artistic creativity is linked to Spatial Awareness.

Develop Patterns Keep it Simple Use Common Sense Eliminate Unnecessary steps that foster confusion and inhibit tracking (ie., multiple color-coding), disorganization

Start with yourself Heads UP Where am I ?

Anatomical

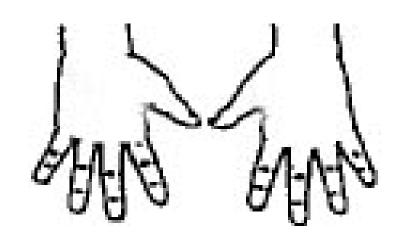
Position



HANDS DOWN

Anatomic

position



Developing Spacial Awareness - Using Colors

Look up SKY BLUE EARTH RED

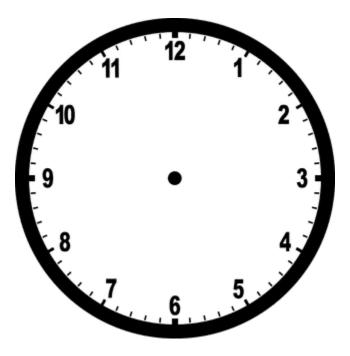


Different Colors- Images



Sunny Sky-----Green Grass

Using Objects- Clock



12 is UP



Tails

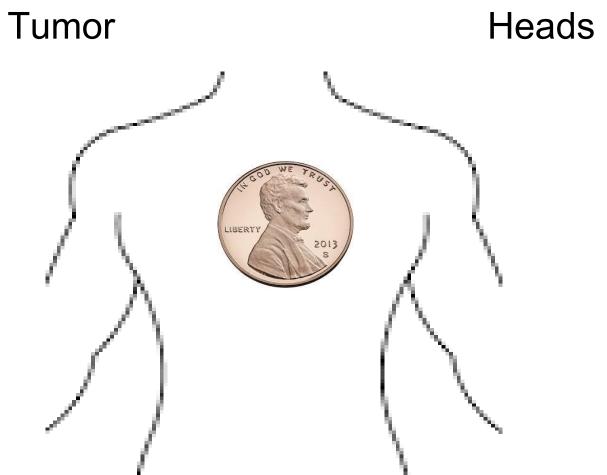
Rim

Objective

PRESERVE ORIENTATION

How?

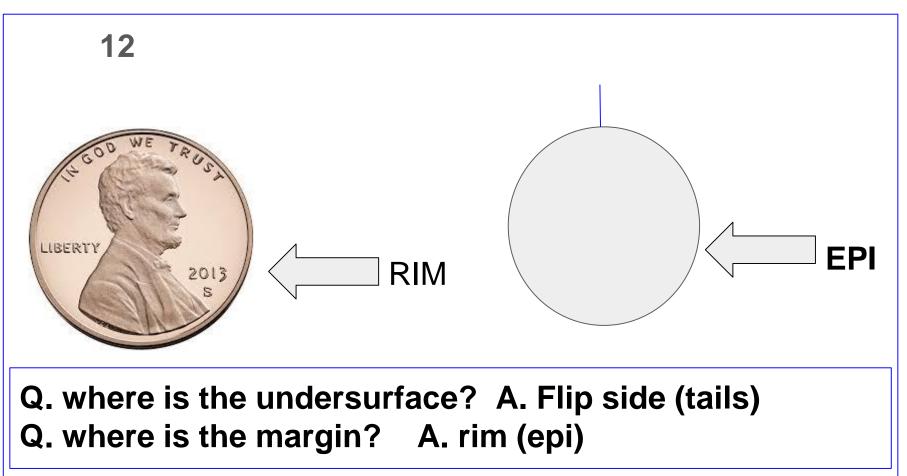
Be Consistent



Heads Up 12 o'clock

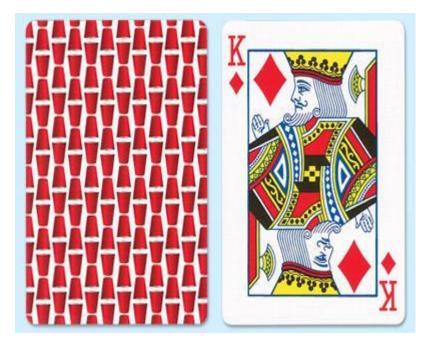
12 o'clock

Heads/Tissue Surface



Visualization- Photographic Memory- Flip tissue over

Surface-smooth firm skin pattern Undersurface-fleshy with various structures







Hone in on your photographic memory over time

Built-in skill that histotechs have to recall visual information

The angel on your shoulder

Says something doesn't look or feel right

Customized your preferences

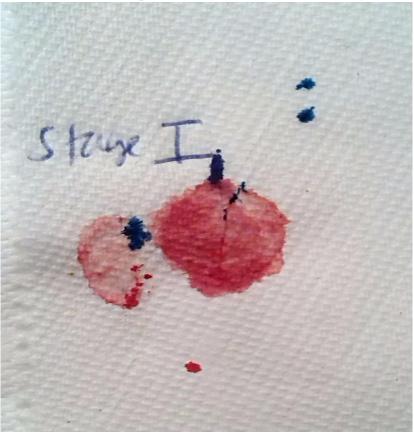
IMPRINTING

USING A PAPER TOWEL-Mirror Image

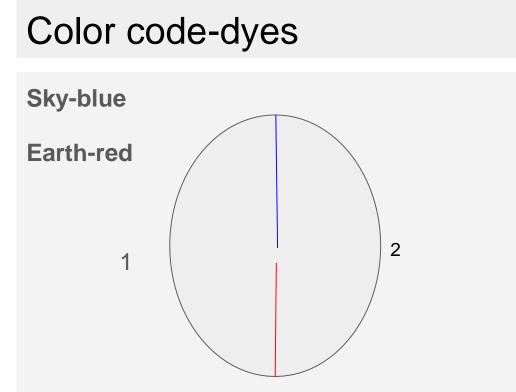


Tissue Orientation imprint on paper towel

Keeping a record of Dye Placement and Slice direction



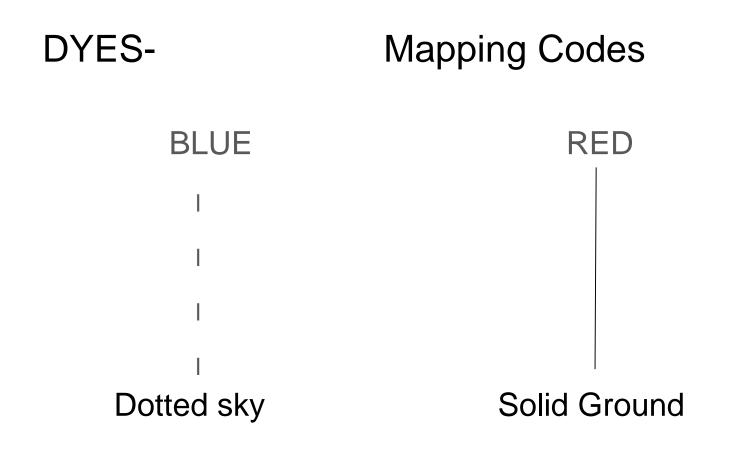




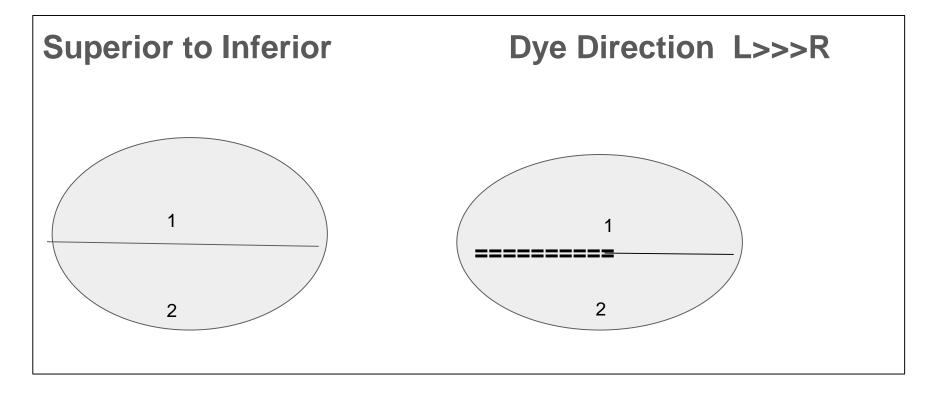
Vertical cut

Superior- Supreme Blue Sky

Inferior- Lowly Earth



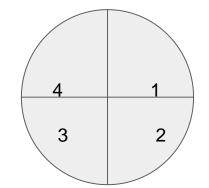
Labeling top to bottom Horizontal cut

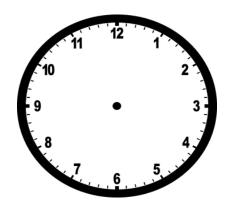


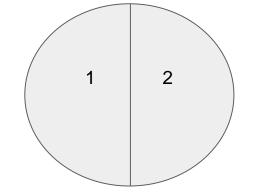
Labeling Left to Right and clockwise- Using Direction











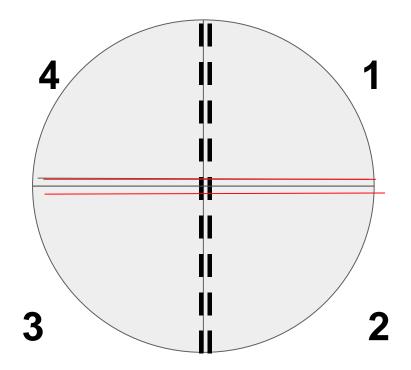
Dye Color match

Would you do this ?



Multiple sections

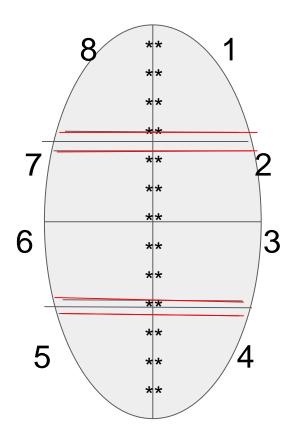
OPPOSITES MATCH



Clockwise direction Sequence match

6+ sections- Match Dyes on Adjoining pieces

Connect dyes



color match pairs

Are you aware?



CONNECT THE DYES Dyeing Sides without epi

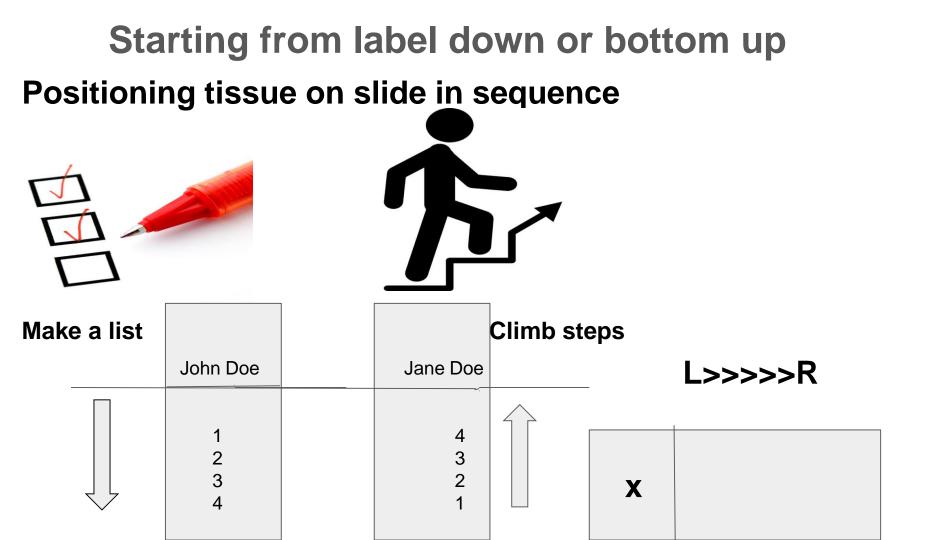


Back to the wall-right angle to sky-Never naked

Ascending Order- Climb a ladder







MICROSCOPE - THE REVERSE IMAGE



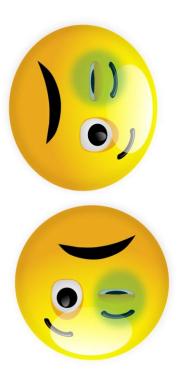


Why dyes are important

Depending on the microscope used, light microscopes and compound lens microscopes cause light to bend before reaching the lens and images may be reversed or inverted. Upside down and backwards.

Map- Which eye is black?





YOURSELF LOOKING IN THE MIRROR

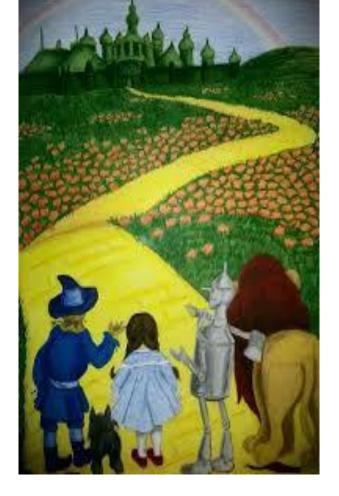
Which eye is black?



- Objects seen under the microscope appear reversed/inverted
- Ignore this
- It is only important if you have to dissect tissue under the microscope
- As long as your dyes match your mapping, this is all the orientation you need to rely on.

Follow your Map

FOLLOW THE YELLOW BRICK ROAD



Getting Lost- Sometimes we can lose Direction





Tools- Help is available - GPS Camera

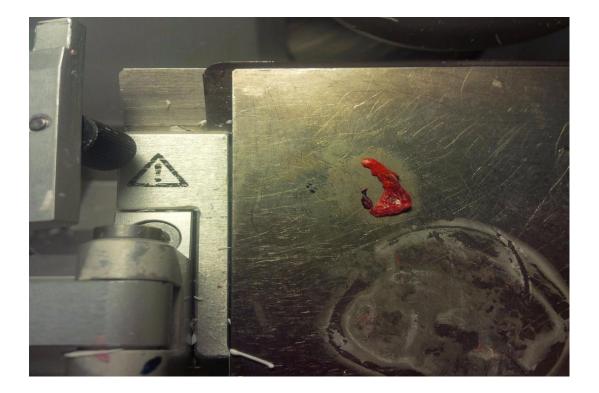


Take a Photo



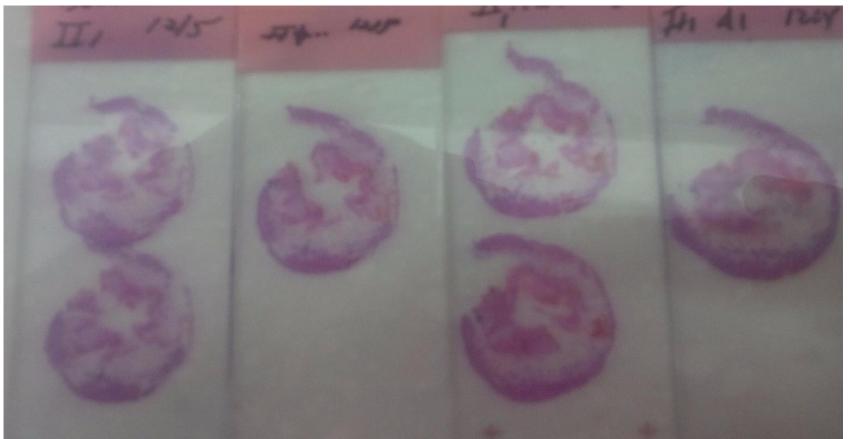


Detached disconnected piece





Bring your camera to the microscope screening



Shop tip- RELEVANCE

When using Spatial Awareness to Develop patterns, present as much info as needed and as little as required.

REFERENCES

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http://lincolnpennies.net/ https://drawception.co http://pictogram-free.com/46-play/186-play.html http://www.freepik.com/free-photos-vectors/stairs http://etc.usf.edu/clipart/48400/48481/48481 nclockb.htm http://hollidayinvestigations.com/fingerprinting/ http://www.ciphr.com/blog/5techniques-to-supercharge-your-productivity/ http://www.wikihow.com/Write-With-Your-Left-Hand-(if-Right-Handed) http://www.clipartbest.com/blue-stick-figure http://photosof.org/green-grass-and-yellow-sky/ http://www.amazon.com/MisMatch-Patriotic-American-Stars-Stripes/dp/B00TJ9QCGE

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Acknowledgement: Barbara Strippoli