

Living Colour

Anthochlors, flavonols, flavones

Yellows, goldens

Living Colour - August 1-17, 2023 UPDATED 2023-07-31

	Date	Lecture	Dye Lab	Topic	Key learnings
				Pre-reading & sourcing materials	<i>Natural textile materials, common dye sources in your country of origin.</i>
WEEK 31	Aug 1 Tue	9.30-11.30	12-16.30	Preparing the fibres, mordanting	<i>Origin of natural dyes. Dye safety. Pre-dyeing preparations: material selection, washing & scouring, mordanting. Coloured mordants. Colour fastness, sustainability.</i>
	Aug 2 Wed	9.30-11.30	12-16.30	Historical dyes, indoles, indigoids	<i>Brief history of natural dyes. Imperial purple. Vat dyeing with woad blue. Dyer's safety</i>
	Aug 3 Thu	9.30-11.30	*	Dye portfolio design *independent work	<i>Planning the dye sample portfolio. Preparing a dye plan. Recipes. Marking your samples before dyeing. Recording your process. Cooperating in the dye kitchen.</i>
	Aug 4 Fri	9.30-11.30	12-16.30	Anthraquinones, red and orange dyes	<i>Dyeing reds, low energy & cooking methods. Preparing dye extracts. Effects of temperature, time, pH.</i>
	Aug 7 Mon	*	-	<i>*9.30-12.30 Excursion to recycling centre 12.30-16.30 Excursion to a supermarket, restaurant & nature</i>	<i>Finding pre-loved textile materials from re-cycling centre. Recognizing and sustainably collecting plants from nature and/or side-stream dye materials from super-markets / restaurants.</i>
WEEK 32	Aug 8 Tue	9.30-11.30	12-16.30	Anthochlors, flavones, flavonols, Yellows, golden colours	<i>Dyeing yellow. Medicinal dye plants. Preparing dye extracts, printing paste, watercolours, inks and pigments. Mordanting more material (e.g. pre-loved) if needed. Local dye plants.</i>
	Aug 9 Wed	9.30-11.30	12-16.30	Anthocyanins, ecoprinting Samples to lightfastness test.	<i>Ecoprinting i.e. botanical contact printing with fresh and dried plants, flowers, and mushrooms. Dyes from food side-streams.</i>
	Aug 10 Thu	9.30-11.30	12-16.30	Combinations, experimental techniques	<i>Oxidation, photo-oxidation, water-solubility. Combining different types dyes, experimental techniques. Monochromatic cyanoprinting. Printing, painting, dyeing pre-loved materials</i>
	Aug 11 Fri	-	*	*Independent work	<i>Sample dyeing for your portfolio/continue favourite technique</i>
WEEK 33	Aug 14 Mon	Return the learning diaries	*	*Independent work Pick up samples from lightfastness test.	<i>Sample dyeing for your portfolio/continue favourite technique (dye kitchen/3D lab)</i>
	Aug 15 Tue	-	*	*9.30-15.30 3D-printing lab, PLA, indigo	<i>Natural dyes applied in 3D-printing with PLA</i>
	Aug 16 Wed	-	*	*Independent work	<i>Sample dyeing for your portfolio/continue favourite technique (dye kitchen/3D lab)</i>
	Aug 17 Thu	9.30-11.30 Return the portfolio	-	Portfolio presentations and evaluation	<i>Sharing dyeing experiences and results. Discussions and evaluation. Exhibition planning (if applicable).</i>

Anthochlors, flavones, flavonols



Agenda today

- Dyeing yellow.
- Medicinal dye plants.
- Local dye plants.
- Preparing dye extracts
- Preparing printing paste
- Preparing watercolours, inks, and pigments.
- Mordanting more material (e.g. pre-loved) if needed.

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Varying fastness against light

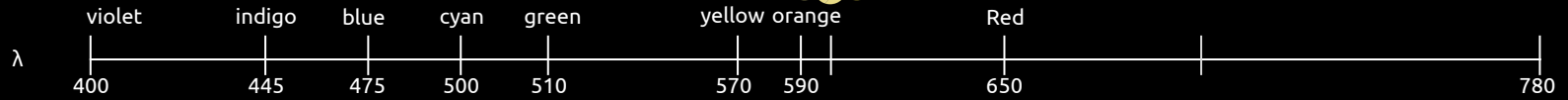
Source



Chemical structure

Colour

Wavelength





Critical perspectives to the value chain

Producing colourants vs. Utilizing sidestreams

Farming dye plants with additional qualities



Critical design perspectives:

Colourfast, traditional dyes

vs. local dye sources

Weld *Reseda luteola*

Birch *Betula sp.*

Marigold *Tagetes sp.*

Golden rod *Solidago sp.*

Tansy *Tanacetum vulgare*



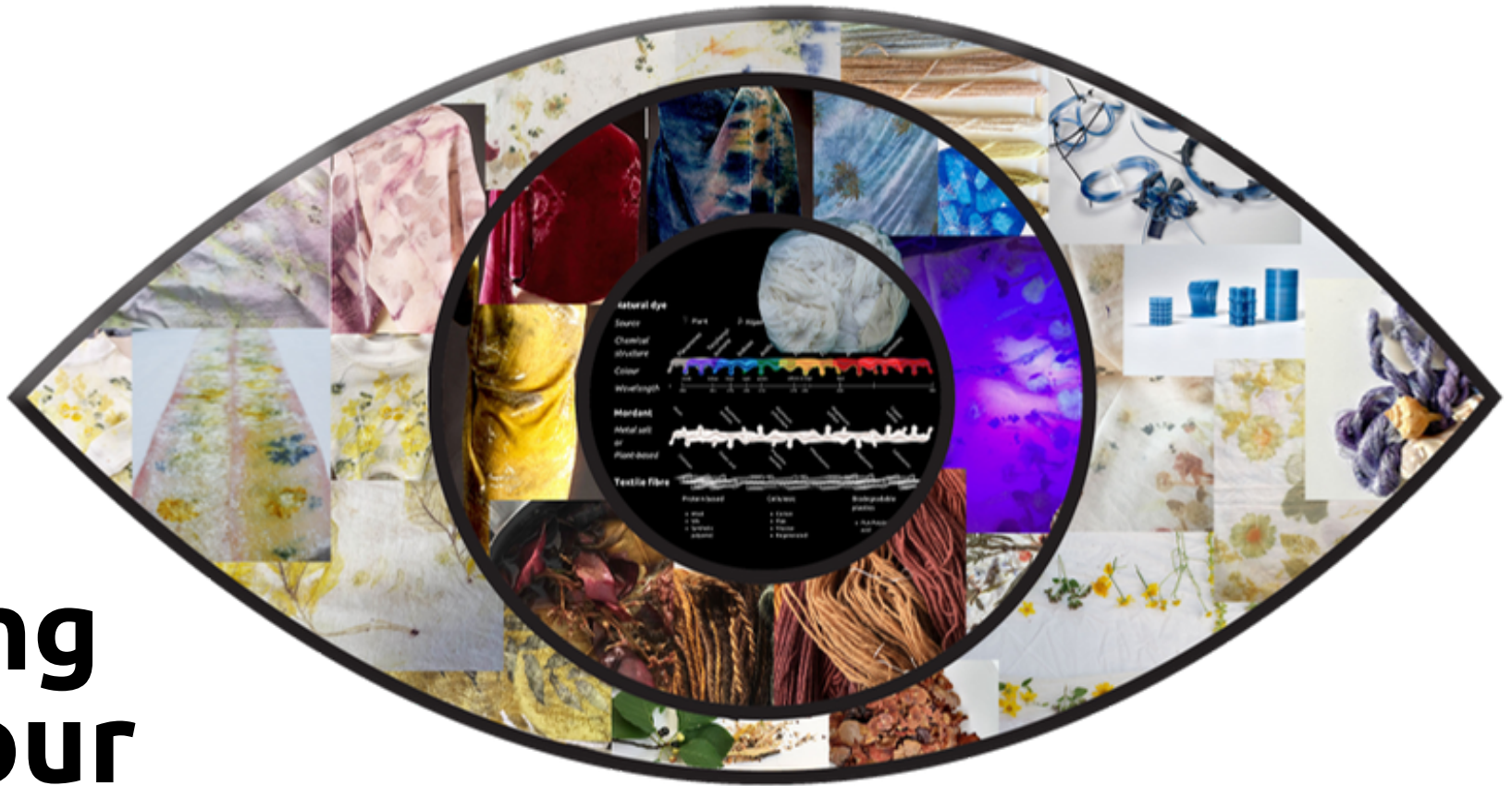
Antibacterial functionality



Antioxidant functionality



Toxic fumes



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Next: Lunch break

Dye lab: 12.00