

PICART STUDIO · V1.0.38

PicArt

Turns any photo into a **ready-to-print paint-by-numbers kit**
— numbered outline, colour legend with paint volumes,
canvas preview and vector file.

WINDOWS · UA / EN · 300 DPI · PNG + SVG



PHOTO → CHART → PAINTING



What is in this booklet

03	What it is · modules overview	13	Paint legend
04	How it works	14	Creation
05	Three real projects	15	Editing
06	The main window	16	Palette
07	Tab by tab	17	Diamond art & cross-stitch
08	The numbered outline	18	Beyond paint: 6 crafts
09	Three ways to print	19	Production options
10	What you get	20	For the workshop
11	Vector output	21	Who it is for
12	Process animation		

Every image is real

Every chart, legend, mock-up and screenshot here is genuine output from the app.

Identical settings

All three example projects use identical settings: 40×50 cm, 24 colours, 300 dpi, 250 ml/m².

Two languages

The booklet comes as separate Ukrainian and English editions, plus a bilingual one.

WHAT IT IS

One photo in, a complete paint-by-numbers kit out

PicArt is a Windows desktop app that converts a photograph into a real paint-by-numbers artwork: it reduces the image to a chosen number of colours, draws the zone outlines, places the numbers, calculates how much paint each colour needs and exports print-ready files.

2–100

colours per painting

5–300_{cm}

any canvas size

300_{dpi}

print-quality outline

6

modules in one app

MODULES



Creation

Photo to numbered chart: colours, size, detail, production options.



Editing

Touch up, merge tiny zones, replace a colour, select an area, undo.



Palette

Pantone / NCS matching, your own paint stock, metallic and fluorescent, mixing recipes.



Diamond art

The same image in DMC drills: grid, legend, CSV for purchasing.



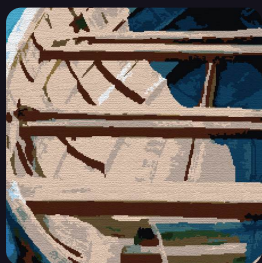
Cross-stitch

Cross-stitch charts with a realistic preview, string art, garment placement.



Polyptych

One painting split into 2–6 panels with automatic layout.



The outline, the paint legend, the canvas mock-up and the vector file — all from a single photo, in one click.

From photo to canvas in four steps



Source photo



Numbered outline



Painted result

- 1 Load an image**
 Load a photo, build a collage, or generate an image with AI inside the app.
- 2 Set the parameters**
 Set colour count, canvas size in cm, outline thickness, font size, high-detail zones, face protection.
- 3 Refine the result**
 Brushes, fill, lasso selection, merging of tiny spots, global colour replace — all undoable.
- 4 Save the kit**
 One click writes the outline, the colour reference, the canvas mock-up, the paint legend and the vector file.

Step 3 is optional — if you like the result, only two actions stand between the photo and the finished kit.

Landscape, portrait, fine ornament — the same engine



Landscape with a boat

Landscape · 2,094 zones

03:40



Portrait illustration

Portrait · gold and blue

07:50



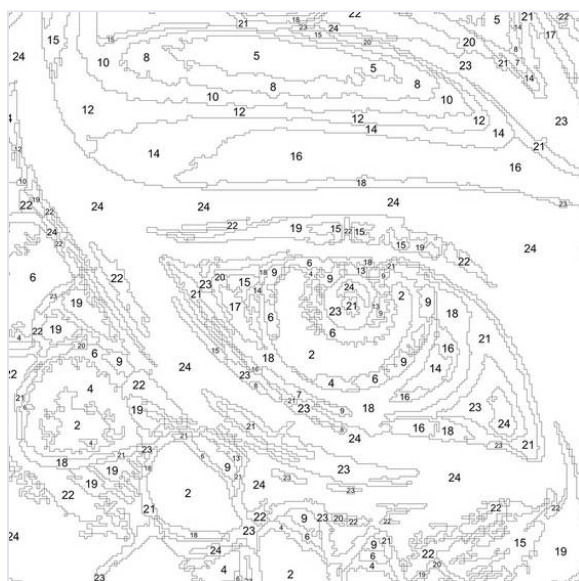
Face art close-up

Close-up · high contrast

04:14

SAME SETTINGS 40x50 cm canvas 24 colours 300 dpi 250 ml/m² coverage

The time under each piece is a full kit export (chart, reference, canvas, legend, vector) on the developer's machine. The corner thumbnail is the source photo.



The hard part: faces

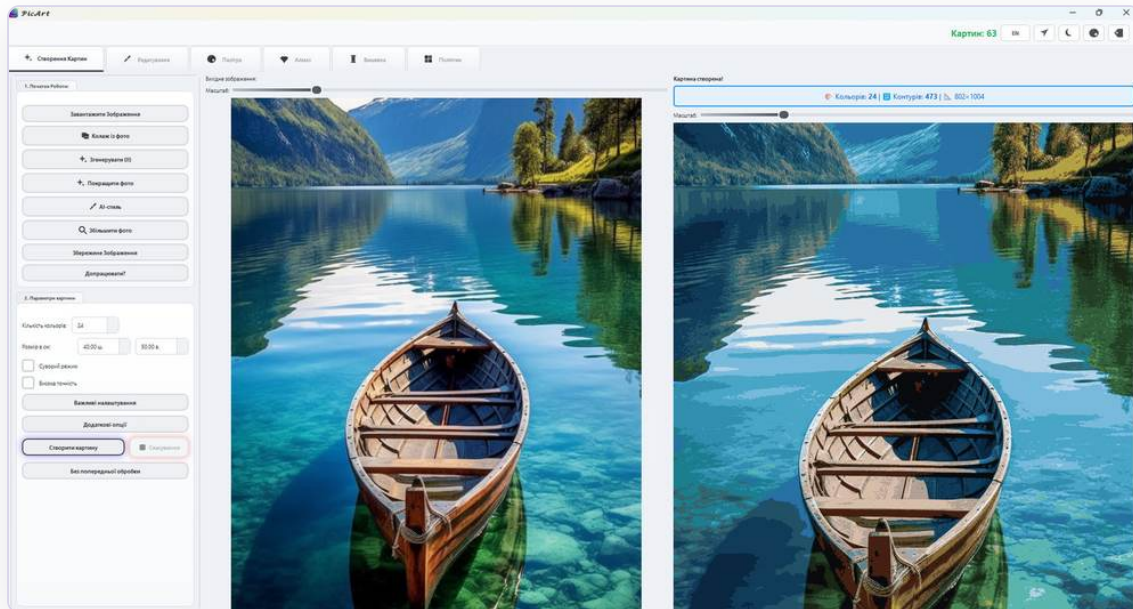
An eye at 100 %: the iris breaks into narrow rings, and a number still fits inside each one.

Face protection: faces are detected automatically and kept from being simplified with the rest.

Detail zones: outline the eyes or the jewellery and the palette shifts toward their colours while the background simplifies.

This is what the working window looks like

Steps run top to bottom on the left, the source photo in the middle, the result on the right.



The Creation tab: the panel reports 24 colours and 473 outlines for this chart.

Steps, not menus

The left panel spells out the order: load, configure, create.

Two views side by side

Original and result side by side, each with its own zoom.

Nothing hidden away

Colour count, size in centimetres and options — all on one screen.

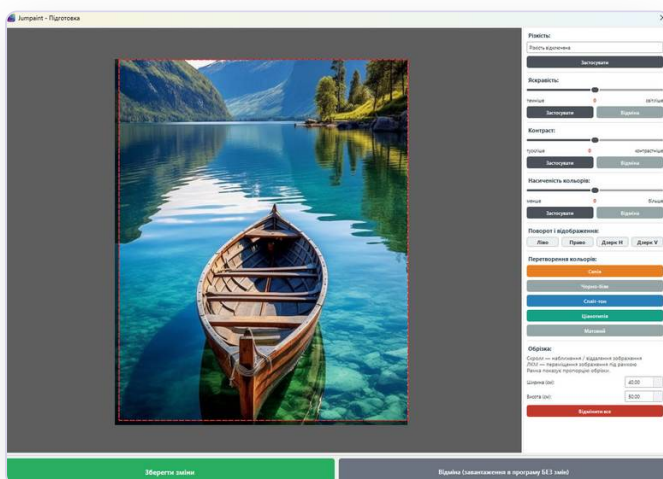


Photo prep

Sharpness, brightness, contrast and saturation, each applied or reverted separately.

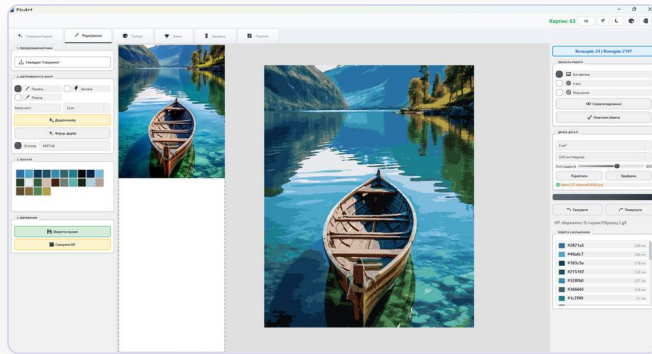
Rotation, mirroring and colour treatments: sepia, black and white, split tone, cyanotype, sketch.

Cropping to the canvas size, with the exact proportions shown.

The remaining-paintings counter, the interface language and the theme all sit in the window header — no menu hunting.

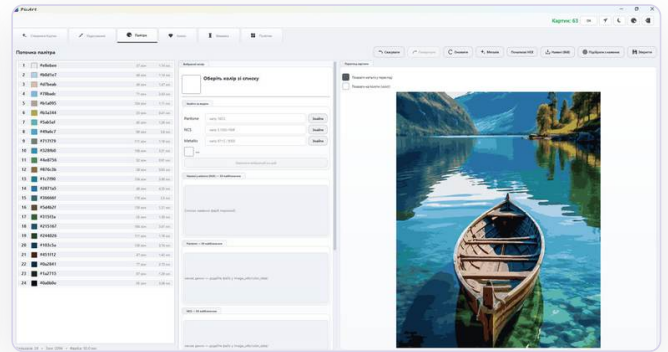
Five tabs, five different products

Editing



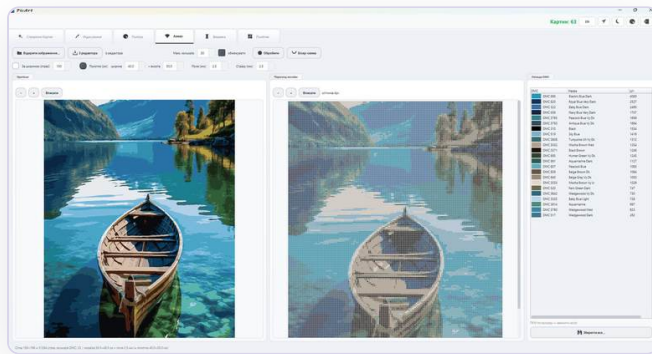
Brush, fill, eyedropper and palette on the left; working area, small-detail threshold and the colour list with areas and volumes on the right.

Palette



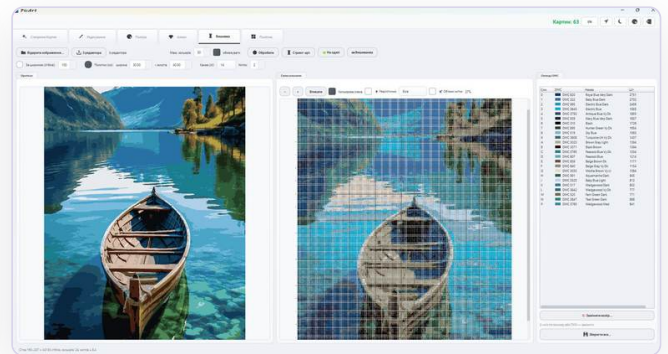
The palette with areas and millilitres, Pantone / NCS / Metallic matching, stock import and stock matching.

Diamond art



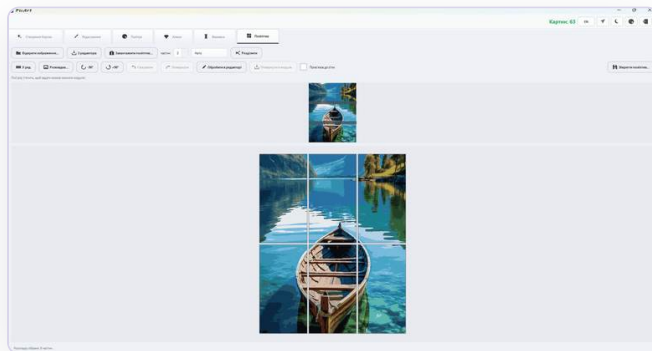
Original and chart side by side, field and drill size in millimetres, a DMC legend with names and drill counts.

Cross-stitch



A chart for your canvas count and thread limit, realistic and 3D-thread previews, links to string art and garment placement.

Polyptych

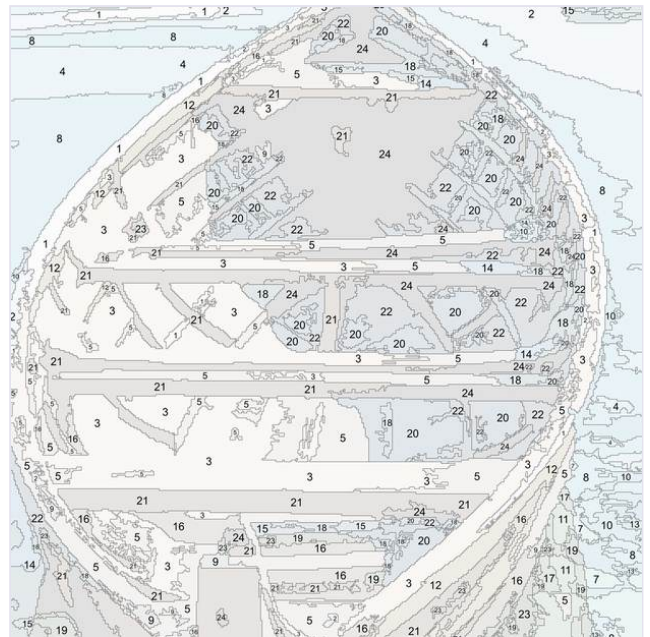


The artwork splits into panels with a live layout preview and a route back into the editor.

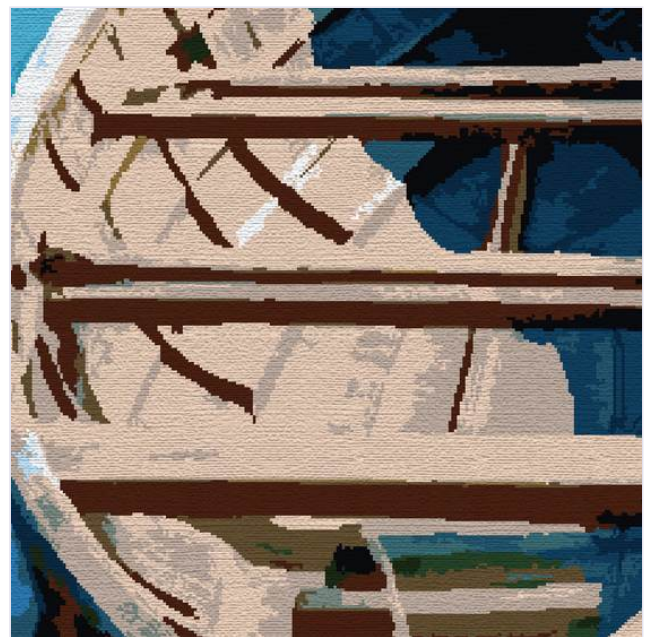
Every tab works on the same image — nothing is exported by hand.

Outlines and numbers a human can actually paint

- Each number sits on the zone's central axis, where it genuinely fits inside the outline — even in narrow, curved areas.
- Elongated zones repeat the number at a set spacing, so the painter never loses track of the colour.
- Numbers are bound to colours, so switching the palette to Pantone or to your own stock never reshuffles the chart.
- Line thickness, outline and digit brightness, contour smoothing and small-detail preservation are all slider-controlled.
- The same artwork prints as a clean numbered outline or with colour fill — the paint-opacity slider sets it: 0 is outline only, 100 is full fill. The vector has its own fill-intensity slider.
- Or white on black: one switch prints the raster, the colour chart and the vector as white outlines for black canvas.
- Digit size and typeface are configured separately for raster and vector output.



Actual output at 100% zoom, 300 dpi.



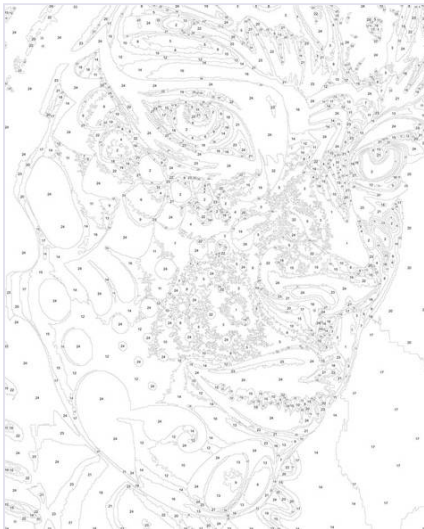
The same fragment on canvas texture.



This chart holds 2,094 zones — and every one of them carries a number that actually fits inside it.

One chart: outline, colour, or white on black

These are not three different projects but one and the same artwork saved three times with different settings. The palette, the numbers and the zone edges are identical — only the presentation changes.



OPACITY 0

Black-and-white chart

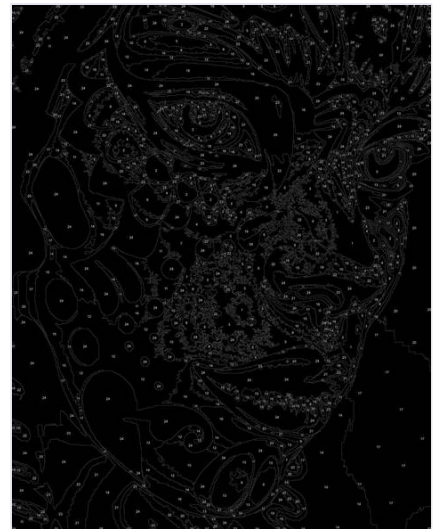
The classic for white canvas: outlines and numbers only.



OPACITY 50

Colour chart

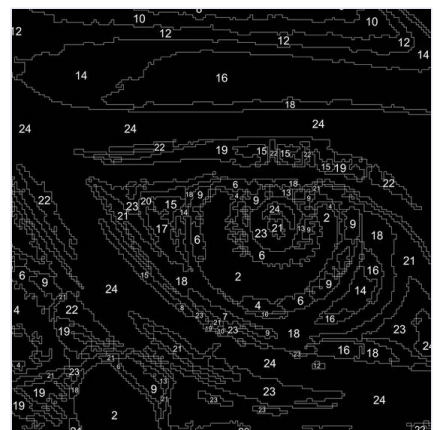
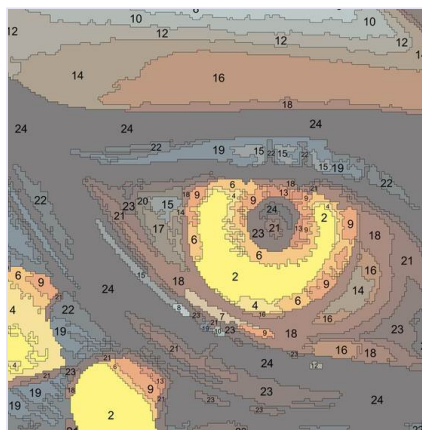
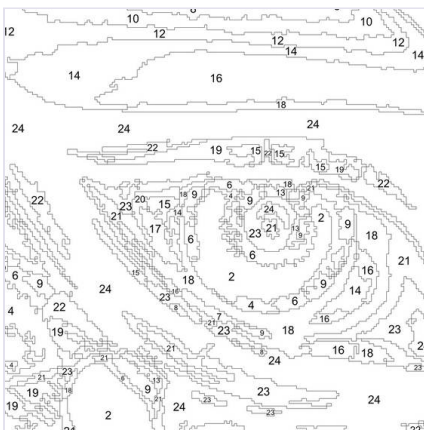
The fill hints at each zone's tone — easier for beginners and children.



INVERTED

White chart on black

For black canvas: white outlines and white digits.



The same fragment of the eye in all three modes — the zone edges and the numbers match pixel for pixel.

One slider does it

One slider does it: paint opacity, 0 for a clean outline, 100 for full fill, anything in between.

One switch for black

The black-background switch applies to the raster, the colour chart and the vector at once.

The same kit either way

Each of the three saves produces the same six files and the same paint legend.

One save, six production-ready files

Everything is written side by side under one base name with a clear suffix — ready to hand straight to production.

..._template.png

Numbered outline, 300 dpi print quality.

..._result.png

Colour reference of the finished painting.

..._result_canvas.png

Canvas mock-up with texture and paint opacity.

..._palette.png

Legend: number, swatch, HEX, area in cm², paint volume in ml.

..._vector.svg

Vector with smooth curves and real text numbers — lossless scaling, plotter-friendly.

..._result.artissimo

Signed project file: reopens with all settings and the palette intact.



..._result_canvas.png— canvas mock-up

Optional extras

A GIF of the painting process for social media and product listings (see next page).

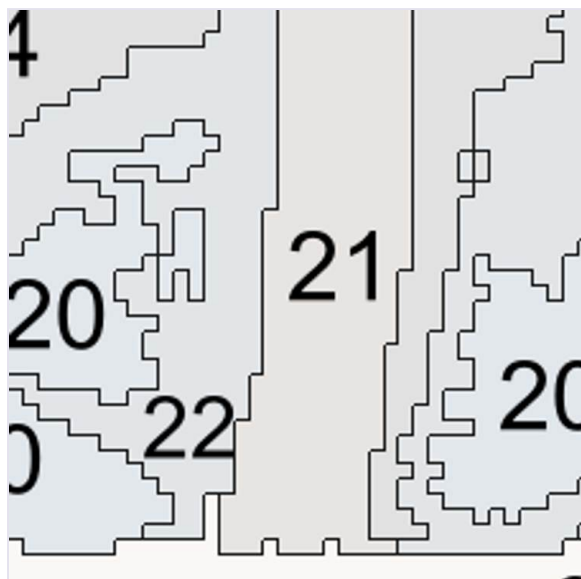
The same chart split into 2–6 panels.

Your logo and workshop name burned into the exports.

Trial mode watermarks every export for demos.

All six files share one base name and differ only by suffix, so nothing gets mixed up at the printer.

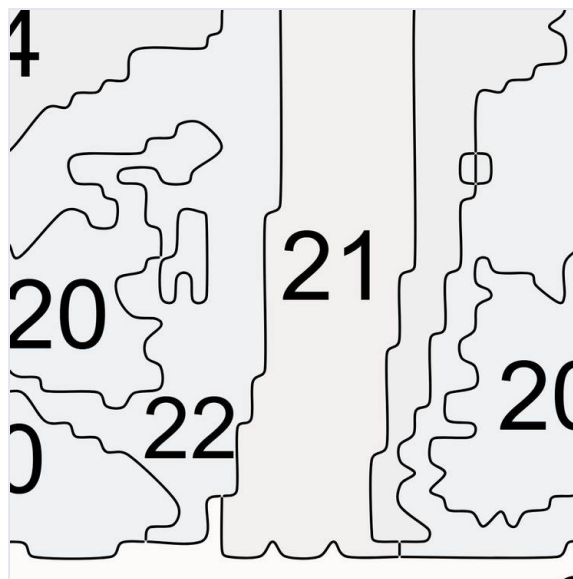
The same chart, without the pixel staircase



RASTER 300 DPI

..._template.png

The zone edge is made of pixels — magnified, they turn into steps.



VECTOR .SVG

..._vector.svg

The same edge is a smooth Bézier curve; the number stays real text.

The same fragment of a 40×50 cm painting — an area of about 1.9×1.9 cm at 400 % zoom.

- Print at any size: the same chart works at 40×50 cm and at 160×200 cm with identical edge quality.
- The numbers are real text — the typeface can be swapped, recoloured or searched, not baked into pixels.
- Plotter- and cutter-ready curves that open in Illustrator, CorelDRAW or Inkscape.

What you control

Fill intensity, from a white chart to full colour.

Line weight and greyness, hairline to bold.

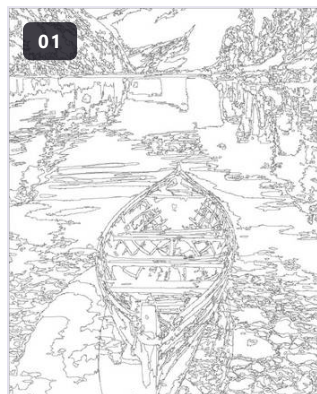
Your own font for the numbers.

White outlines on black, for black canvas.

The vector is written together with the rest of the kit — no separate step — and one checkbox turns it off.

A GIF that shows the painting coming to life

One button builds an animation of the painting process — from the blank numbered outline to the finished artwork, colour by colour, in the same order the painter works.



start — blank chart



15 % done



30 % done



40 % done



55 % done



70 % done



85 % done



finished

Frames from the actual GIF built by the app: 100 frames, about three seconds.

For social media

Motion stops the scroll better than a still — ready-made content for your page.

For product listings

Buyers instantly see what they get and how it will end up looking.

For the customer

A personal painting from their own photo, shown before anything is printed.

It works out how much paint to buy

For every colour PicArt measures the real zone area in square centimetres and converts it into millilitres using your own coverage rate (ml per m²), set in the preferences.

Number and swatch, exactly as printed on the chart.

HEX code of every paint, for ordering or mixing.

Area in cm² — the total surface of that colour.

Volume in ml — how much paint will actually be used.

Sorted light to dark, so the legend doubles as a painting order.

Saved as its own PNG — print it as the insert card for the box.

Картина 40х50см, 24 кольорів
Виплата фарби: 250 мл/л²

№	Колір	HEX-код	Площа (см ²)	Об'єм (мл)
1		#e8ebee	69.6 см ²	~ 1.7 мл.
2		#b0d1e7	45.6 см ²	~ 1.1 мл.
3		#d7beab	58.8 см ²	~ 1.5 мл.
4		#78bade	97.2 см ²	~ 2.4 мл.
5		#b1a095	44.4 см ²	~ 1.1 мл.
6		#b3a344	16.4 см ²	~ 0.4 мл.
7		#5ab5af	50.4 см ²	~ 1.3 мл.
8		#49a6c7	152.0 см ²	~ 3.8 мл.
9		#717f79	46.4 см ²	~ 1.2 мл.
10		#328fb0	128.4 см ²	~ 3.2 мл.
11		#4e8756	24.4 см ²	~ 0.6 мл.
12		#876c3b	37.2 см ²	~ 0.9 мл.
13		#1c7f90	122.4 см ²	~ 3.1 мл.
14		#2871a5	173.2 см ²	~ 4.3 мл.
15		#36666f	132.0 см ²	~ 3.3 мл.
16		#5d4b2f	48.4 см ²	~ 1.2 мл.
17		#315f3a	55.6 см ²	~ 1.4 мл.
18		#215167	136.4 см ²	~ 3.4 мл.
19		#244026	70.4 см ²	~ 1.8 мл.
20		#103c5a	149.6 см ²	~ 3.7 мл.
21		#51f12	56.8 см ²	~ 1.4 мл.
22		#0a2841	109.2 см ²	~ 2.7 мл.
23		#1a2715	51.6 см ²	~ 1.3 мл.
24		#0a0b0e	123.2 см ²	~ 3.1 мл.

Порядок і номери — такі самі, як цифри на схемі.

Actual legend for a 40×50 cm, 24-colour painting.

No more guessing when ordering paint — you know the volume of every colour before the first kit is even printed.

✦ Creation

This is where the chart is born. You can prepare the source image inside the app, and the quality of the result is governed by explicit parameters, not luck.

Getting the image in

- Load a photo from disk.
- Photo collage: free drag-and-resize layout, or an even grid of 2/3/4/6/9 frames.
- AI image generation from a text prompt, right inside the app.
- Reopen a saved project with all its settings.

Preparing the photo

- One-click auto enhance: exposure, contrast, white balance, sharpness — with a before/after preview.
- AI restyle: oil, watercolour, pop-art, caricature, season change, white background, or your own prompt.
- Neural upscaling of small or soft photos before the chart is built.

Painting parameters

- 2 to 100 colours: fewer is easier to paint, more is closer to the photo.
- Canvas size from 5 to 300 cm per side; it drives both resolution and paint volumes.
- Strict mode: never exceed the requested colour count.
- High-precision mode: slower but more accurate colour reduction.

Detail control

- Detail zones: outline an area and the palette shifts toward its colours — a face keeps its tones while the background simplifies.
- Automatic face protection against over-simplification.
- A slider deciding whether tiny spots are merged or preserved — in both raster and vector.
- «Raw» preview without pre-processing, to judge the shot.



The landscape, the portrait and the face art on page 05 all came from one and the same combination of settings.

Editing

No automatic conversion is ever perfect, so the artwork can be reworked by hand — at full resolution, with full undo.

Tools

- Brush painting in the active palette colour, anti-aliasing off so no stray shades appear.
- Fill: one click repaints a whole zone.
- Eyedropper on the canvas — and on the source photo too.
- Brush size in pixels, from fine touch-ups to broad areas.

Working in a selection

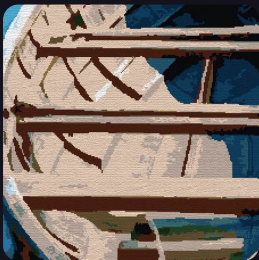
- Lasso selection turns any outlined area into the working area.
- Scope switch: whole image, inside the selection only, or outside it only.
- Toggle the selection with M, clear it with one button.

Cleaning the chart

- Highlight details smaller than a chosen size, so you see what will be painful to paint.
- Merge those specks into neighbouring colours in one action.
- Global or selection-limited colour replace, with an area filter.
- Add a colour: the new shade joins the palette and gets its own number.
- Fluorescent paints: six neon presets, flagged in the legend.

Output

- Undo and redo on every action.
- Save project writes the whole six-file kit at once.
- Build a GIF of the painting process, step by step.
- On save, stray shades from manual edits are reconciled back to palette numbers, so no black blobs sneak into the chart.



Edits happen at the chart's full resolution — 4724×5906 pixels for a 40×50 cm painting at 300 dpi.



Palette

A dedicated tab that maps the artwork onto the real paints you buy — or already have in stock.

Catalogue matching

- For any colour, the five closest Pantone and NCS matches with their ΔE distance.
- The catalogue code is stored, not just a HEX value, so the legend lists what you actually order.
- Swap the whole palette to the nearest Pantone Metallic, with a shimmer preview.

Your own stock

- Import your paint stock from Excel or CSV.
- Re-map the entire palette onto paints you genuinely have.
- A preview dialog lists every original → paint pair with its ΔE ; untick one and that colour stays untouched.

Colour control

- The original HEX of every colour is remembered and can be restored — all colours at once, or just one.
- Clicking the artwork selects that colour in the list.
- A mixing recipe for reaching a shade from base paints.
- Preview the palette on canvas texture.
- Undo and redo on every palette change.
- Export the palette and artwork as a ready colour card.

Why it matters

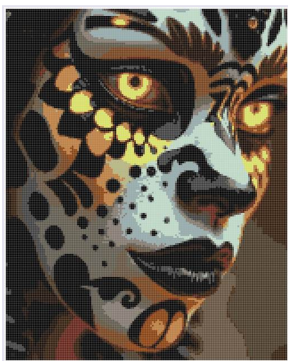
- Because numbers are bound to colours, any re-matching leaves the printed chart valid — no reprints.

Numbers are bound to colours, so matching to Pantone or to your own stock never reshuffles the printed chart.

Not window screenshots — the actual charts

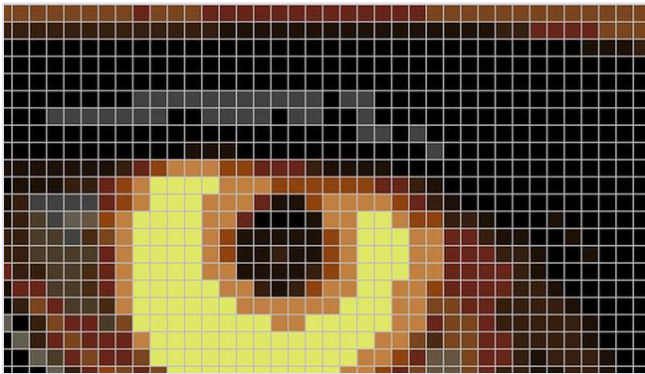
The same photo as on the previous pages, converted into two other crafts. Each module exports the chart, a legend with material counts and a CSV for purchasing.

Diamond art



Легенда DMC
Цвета: 17 Всего страз: 31284 Мозаика: 39.5×49.5 см

DMC 310	Black	× 10317
DMC 3031	Mocha Brown Vy Dk	× 2499
DMC 938	Coffee Brown Ult Dk	× 2473
DMC 3371	Black Brown	× 2153
DMC 839	Beige Brown Dk	× 1676
DMC 3787	Brown Gray Dark	× 1666
DMC 504	Blue Green Vy Lt	× 1609
DMC 3799	Pewter Gray Vy Dk	× 1452
DMC 926	Gray Green Medium	× 1355
DMC 976	Golden Brown Med	× 1326

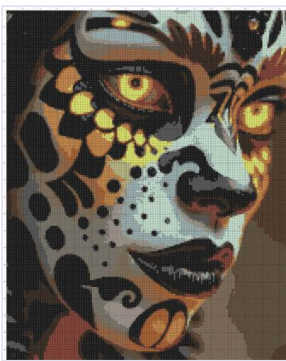


The chart at 100 %: every cell is one drill.

17 DMC colours 31 284 drills 39.5×49.5 cm

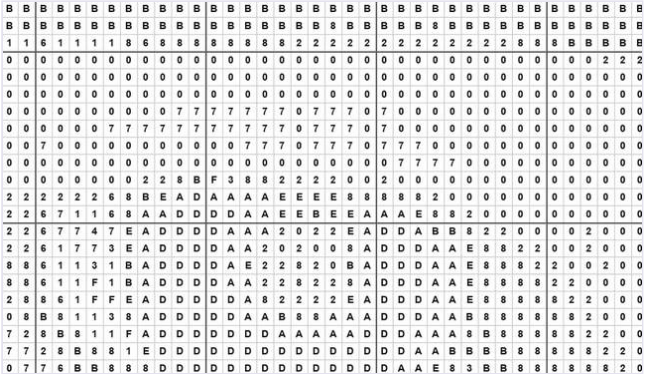
The legend counts every DMC number separately, and the CSV opens in Excel — the purchase list is ready as is.

Cross-stitch



Легенда вишивки (DMC)
Кольорів: 17 Стіжоків: 33990 Канва: 14 ct Ниток: 2 Мотків DMC

0	DMC 310	Black	× 11231 (2.8 мот.)
1	DMC 3031	Mocha Brown Vy Dk	× 2695 (0.7 мот.)
2	DMC 3371	Black Brown	× 2540 (0.6 мот.)
3	DMC 839	Beige Brown Dk	× 1863 (0.5 мот.)
4	DMC 3787	Brown Gray Dark	× 1783 (0.4 мот.)
5	DMC 504	Blue Green Vy Lt	× 1754 (0.4 мот.)
6	DMC 938	Coffee Brown Ult Dk	× 1634 (0.4 мот.)
7	DMC 3799	Pewter Gray Vy Dk	× 1628 (0.4 мот.)
8	DMC 3857	Rosewood Dark	× 1585 (0.4 мот.)
9	DMC 926	Gray Green Medium	× 1465 (0.4 мот.)



The symbol chart at 100 %: one symbol per colour, blocks of ten.

17 DMC colours 33 990 stitches 14 ct canvas 2 strands

The chart is saved both in colour and as a black-and-white symbol version, and the legend converts stitches into DMC skeins — 2.8 skeins of black, 0.7 of brown, and so on.

Both charts come from the very same photo as the paint-by-numbers artwork — nothing is carried across by hand.

One photo, any kind of handcraft

The same image converts into far more than a painting. Every module produces its own chart, legend and printable files.



Diamond art

Conversion to DMC drills: 453-colour palette, symbol grid, per-colour drill counts, field and drill size in millimetres, colour cap, in-chart colour replacement, CSV for purchasing and PNG for printing.



Cross-stitch

A chart for your canvas count and thread limit, colour or symbol based, with cursor-anchored zoom, panning and double-click colour replacement — plus a realistic preview of actual stitches on canvas, with thread volume and canvas colour.



String art

A portrait woven from thread between nails: 60–360 nails, up to 4000 lines, canvas from 10 to 200 cm, with a step-by-step winding sequence.



Bead pattern

Bead weaving charts in two grids — loom and brick stitch — with a colour legend.



Garment placement

Place a design on a finished garment — tee, hoodie, tote, apron, bodysuit. Size presets or your own measurements, zone selection, fit checking, a 1:1 printable template and instructions.



Traditional shirt

A constructor for the traditional Ukrainian cut: rectangle-based pattern pieces, embroidery zones and a sewing sequence.

Every craft picks up the same image from the editor — nothing has to be exported by hand.

Every printed detail is under your control

On the artwork

- Grid overlay on the chart.
- Decorative border, wood and gold among them.
- Split into 2–6 panels with automatic layout.
- Legend printed on the canvas itself.
- Pop-art treatment of the whole image.
- Keep the original composition untouched.

Print & canvas

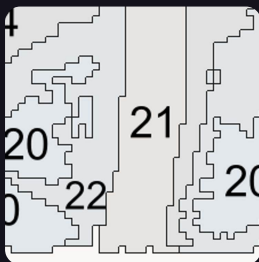
- Paint opacity — from a clean outline (B&W chart) to full fill; applies to the canvas mock-up and to the chart.
- Digit brightness, set independently.
- Contour smoothing that never grows the palette.
- Digit size and typeface, raster and vector separately.
- Outline brightness, from black to nearly invisible.
- Outline thickness in pixels.
- Paint coverage in ml per m², matched to your material.
- White outlines for printing on black canvas.

Vector output

- Vector export toggled with one checkbox.
- Line weight and greyness, from hairline to bold.
- Fill intensity, from white chart to full colour.
- Your own label font, the one your printer has.

Branding

- Your logo and workshop name are applied to the exports, so the kit looks like your product.
- A live preview: canvas, raster and vector panels react to every slider instantly.



The live preview shows canvas, raster and vector at once, so you see the effect before anything is saved.

Built as a tool, not as a demo

The application

- Runs locally on Windows: your photos stay on your machine.
- Ukrainian and English, switched with one button.
- Light, dark or a custom theme — the appearance panel sets background, button, accent and text colours, plus font and button size.
- Automatic updates delivered straight into the app.

Reliability

- Heavy operations adapt to available RAM, so weaker machines keep working.
- Long jobs run in the background and can be cancelled.
- Crash reports can be sent to the developer from inside the app.

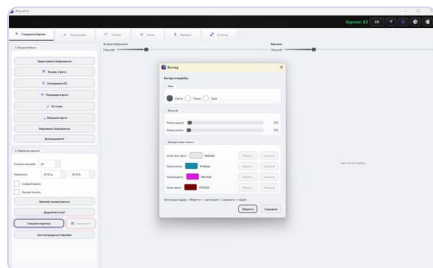
Access & licence

- Subscription login with a painting counter shown in the app.
- Self sign-up with a trial: new users can explore, exports are watermarked.
- Re-saving your own project costs nothing, so revisiting paid work is free.
- Per-client feature access: open only the modules a customer needs.

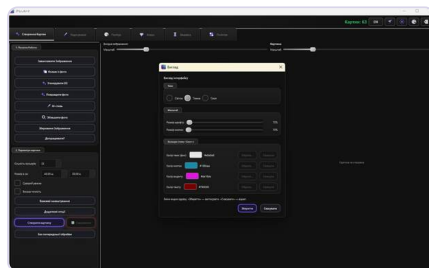
Protecting the product

- Project files are cryptographically signed and recognised by the app.
- Trial exports carry a watermark and deliberate distortion, so demos cannot be sold.

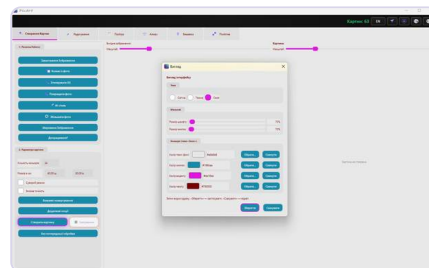
Make it yours



Light



Dark



Custom colours

The appearance panel picks the theme, the font and button size, and — in the custom theme — the background, button, accent and text colours. Changes preview live; cancel reverts them.

PICART · V1.0.38

Your photo is ready to become a painting

From a snapshot to a print-ready kit in minutes — no graphics editor, no tracing outlines by hand.

Paint-by-numbers workshops

Gift and handmade retailers

Art studios and classes

Anyone who wants to paint their own photo

