

Photographic-style design mockups, not photos of minted coins.

Proof of Panda ($PoP) — Token Plan & Physical Gold Coin Program

Prepared for: Canin Fleen · Pan Kitchen / Red Panda Protocol (X: @PANKItCHeN_CHeN · https://pankitchen-redpanda.pages.dev) **Date:** November 25, 2026 (ET) · **Status:** planning draft — nothing minted, created, or ordered yet. **Related tokens:** $ChəN (35iKyUi9z82V3MbAx8v1z4T8KBUALabbHP49cAWTjups) and $FOXXP (Fw9aaSgZRKvT7F5m3dUHXkPENTid4a8yBWX9qwL4kxCm), both on Solana.

> **Bottom line:** Run these as two separate things. **$PoP** is a collectible meme token. The **Proof of Panda gold round** is a physical product made by a private mint and sold at a price based on its gold content. **Don't tell anyone the token is backed by gold or can be redeemed for it,** and don't promise returns from the coin program, unless you first set it up with a securities/commodities lawyer, a custodian and audits (see Section 4).

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1. Artwork delivered

File	What it is
`art/pop-obverse-2048.png` (+ `-specs.png`)	Front: the Red Panda token art (the same character as the @PANKItCHeN_CHeN profile image: a snarling red panda tearing off a panda-suit mask) in 22K rose-gold relief with colored hard-enamel fill (russet orange, white, black, dark brown, green) and the letters "P.O.P". 2048×2048
`art/pop-reverse-2048.png` (+ `-specs.png`)	Back: only "1/2 OZ" and "22KT GOLD" on a plain field with a simple border. 2048×2048
`art/pop-hero-3q-2048.png`	3/4-angle hero shot showing the reeded edge, 2048×1152
`art/pop-pair-2048.png` (+ `-specs.png`)	Front and back side by side, 2048×1152
`art/pop-x-post-1200x675.png`	X post image: pair plus a spec strip (diameter × thickness, weight, 22K / 916.7, gold value at spot)
`art/pop-token-logo-512.png`	512×512 transparent PNG token logo (the front face)
`blueprint/pop-blueprint.pdf` + `pop-blueprint-pageN-300dpi.png` + `pageN.svg`	6-page Letter-landscape drawing with large type: front, back and cross-section, half-dollar-size option, specs table, calculations, production notes

The "-specs" images carry only these overlay facts: Ø 27.00 mm × 2.15 mm, 1/2 troy oz fine gold / 16.966 g total, 22K · 916.7 rose gold, hard enamel, and "Gold value ~$1,795 at spot" (0.5 × $3,590.70, gold-api.com at 12:21 AM ET Nov 26, 2026). That value is the metal's worth only, and it changes every minute. The coin faces carry no date and no brand name. **Enamel update (Nov 26, 2026):** the front now shows hard (vitreous) enamel in true colors in recessed cells between polished raised gold lines. Enamel adds negligible weight (well under 0.1 g), so the gold content (1/2 ozt, 15.552 g fine) and the 16.966 g total weight are unchanged. The back stays text only. The earlier no-enamel art is kept in `art/old-rose-2/`.

The images are **photographic-style design mockups** made with an image generator, not photos of a coin that exists. Say so wherever you post them (the website page does). A mint's sculptor turns the approved art into a 3D relief model before cutting dies, so the final strike will differ. Most mints also require a fineness mark such as "22K" or ".9167", a weight, and a maker's mark, so expect small lettering changes in the final dies. Fine fur and torn-fabric detail may be simplified by the mint's sculptor to strike cleanly.

2. Coin specifications (the math)

Sources: U.S. Mint coin specifications (half dollar, coin specs table) list the half dollar at **30.61 mm diameter, 2.15 mm thick, 11.340 g, reeded edge with 150 reeds**. The U.S. Mint's American Gold Eagle page lists the **1/2 oz Gold Eagle at 27.00 mm, 16.966 g (0.5455 ozt), 91.67% gold / 3% silver / balance copper**. Dealers widely cite its thickness as 2.15 mm.

- 1/2 troy oz of fine gold = 0.5 × 31.1035 g = **15.552 g**
- 22K = 22/24 = **91.67%** gold → gross weight = 15.552 ÷ 0.9167 = **16.966 g**
- **Alloy: 22K rose (red) gold** = 91.67% gold, balance mainly copper (about 8%), small silver if any. Yellow 22K, by comparison, uses about 3% silver and 5.33% copper.
- **Assumption:** density ≈ **17.7 g/cm³** (range 17.6–17.8; pure gold plus copper at 91.67/8.33 works out to 17.62, and a little silver raises it) → volume ≈ **0.9585 cm³ (958.5 mm³)**

	Option A — Ø30.61 mm (half-dollar size)	Option B — Ø27.00 mm (standard 1/2 oz size) — recommended
Face area	735.9 mm²	572.6 mm²
Flat-disk equivalent thickness	**1.30 mm** (1.30–1.31 across 17.6–17.8)	**1.67 mm** (1.66–1.68)
Rim thickness (spec)	1.60 ±0.05 mm	2.15 ±0.05 mm (same as Gold Eagle)
Field thickness	~1.16 mm	~1.49 mm
Max relief per side	~0.17 mm	~0.28 mm
Rim width	1.00 mm	1.10 mm
Edge	reeded, 150 reeds (0.641 mm pitch)	reeded, 132 reeds (0.643 mm pitch)
Weight	16.966 g +0.050 / −0.000	same
Fine gold	15.552 g = 0.5000 ozt	same

Why Option A is thin: at 30.61 mm across, a 1/2 oz gold piece can only be about **1.3 mm** thick. A full 30.61 × 2.15 mm 22K disk would weigh about **28.0 g** (≈0.83 ozt of fine gold). Option A works, but it is thin and bends more easily, and its relief has to be shallow. Option B is the proven 1/2 oz format.

Size note: Option A matches the diameter of a circulating U.S. coin. That is legal for an original, clearly private design. Still, Option B or a non-U.S. size avoids any confusion with U.S. coins.

Rose-gold blanks: many private mints only stock .9999 (24K) or 22K yellow blanks. A 22K rose-gold alloy usually means custom-melted blanks, which can add a melt charge and raise the minimum order. Ask each mint whether it can enamel a 27 mm coin (hard enamel colors, cost, minimums) and whether it can supply rose-gold blanks, or whether it would substitute 22K yellow or 24K, and send them the blueprint's alloy note (Au 91.67%, Cu about 8%, Ag trace).

24K alternative: most mints stock .9999 fine-gold blanks. A .9999 round has 15.552 g, a density of 19.32 g/cm³, and a flat thickness of 1.41 mm at Ø27 mm. Ask every mint which they can do.

"Poured" vs. struck: quality gold coins aren't poured into molds. A mint cuts and weighs blanks, then **strikes** each one between engraved hardened-steel dies inside a reeded collar. Proofs get frosted relief, mirror fields, and two or more strikes. *Poured* gold means **cast bars/ingots**, which have softer detail, no mirror proof finish, and a rougher, more organic look. If you want the fine detail in the mockups, order a **struck proof round**. A poured bar can be a separate product.

3. $PoP SPL token plan (Solana)

3.1 Suggested parameters

- **Name / ticker:** Proof of Panda / **PoP** (check the ticker on Jupiter, DexScreener and Solscan first. Other "POP" tokens exist, so the name and logo must make yours clearly different.)
- **Supply options:** 1,000,000,000 (standard meme supply, matches $FOXXP) or **2,026,000,000** (year theme). Decimals: 6.
- **Allocation idea (publish it before launch):** ≥90% to the liquidity pool, ≤5% community airdrop wallet, ≤5% team/marketing wallet. Publish the wallet addresses, and use time-locked vesting (for example Streamflow or Jupiter Lock) for the team share.

- **Metadata:** name, symbol, description, image (`pop-token-logo-512.png` hosted at a permanent URL, e.g. https://pankitchen-redpanda.pages.dev/assets/img/pop/pop-token-logo-512.png, or on Arweave/IPFS via the tool), website, X link.
- **Description (honest):** "Proof of Panda ($PoP) is a community meme token from the Pan Kitchen / Red Panda Protocol story. It is a collectible with no intrinsic value. It is not backed by, linked to, or redeemable for gold or any physical coin."

3.2 Creation steps (standard tools)

No-code: use the same tool you used before (Smithii token creator), or another reputable creator. Choose the classic SPL Token program with Metaplex metadata. Upload the logo, set the metadata, and pick **revoke mint authority** and **revoke freeze authority**. Revoke update authority only once you're sure the metadata is final.

CLI (Solana docs / spl-token):

```
solana config set --url https://api.mainnet-beta.solana.com
spl-token create-token --decimals 6            # classic SPL; then add Metaplex metadata with a
tool
# or Token-2022 with built-in metadata:
spl-token create-token --program-id TokenzQdBNbLqP5VEhdkAS6EPFLC1PHnBqCXEpPxuEb --enable-metadata -
-decimals 6
spl-token initialize-metadata <MINT> "Proof of Panda" "PoP" <METADATA_JSON_URI>
spl-token create-account <MINT>
spl-token mint <MINT> 1000000000
spl-token authorize <MINT> mint --disable      # revoke mint authority (fixed supply)
spl-token authorize <MINT> freeze --disable    # only if a freeze authority was set
```

Some scanners show extra warnings for Token-2022 tokens. The classic SPL Token program with Metaplex metadata gets the widest support on Jupiter and DexScreener.

3.3 Liquidity, plus a real LP lock or burn

1. Create a pool on Raydium (CPMM) or Meteora pairing $PoP with SOL, and put in a meaningful amount of SOL. A pool with very little SOL gets filtered out or flagged by trackers.
2. **Lock or burn the LP tokens, and publish proof:** Raydium's *Burn & Earn* (a permanent lock that still earns fees), Jupiter Lock (lock.jup.ag), or Streamflow, or burn the LP tokens. Post the lock or burn transaction link on the website and X **only after it confirms on-chain**.
3. Then list it: DexScreener (indexes automatically once the pool trades; paid "Enhanced Token Info" is optional), Jupiter (verification and token info), CoinGecko and CoinMarketCap (free applications that require a live pool, website and socials).
4. **Don't repeat the $FOXXP mistake:** the site must never say "liquidity locked" until there is a lock link to point to.

4. Compliance — read before announcing anything

This is general information, not legal advice. Talk to a lawyer licensed in securities/commodities before you link a token to gold.

- **Gold-backed or redeemable token = regulated territory.** If $PoP is marketed as **backed by gold, redeemable for coins, or paying returns** from coin sales, regulators can treat it as an investment contract or security (**SEC**, Howey test) or as a commodity-related product (**CFTC**, which has anti-fraud authority

over commodity markets including gold and digital commodities). That brings registration or exemption requirements, custody, audits, and liability for any untrue statement. The SEC staff's February 2025 statement that typical meme coins generally aren't securities depends on there being **no promises of profit, backing or redemption**. Adding them changes the analysis.

- **Recommended approach:** keep **$PoP a collectible meme token with no gold-backing claim.** Sell the physical round separately, priced by its gold content and the mint's premium. If you ever want real backing or redemption, do it only with counsel, a qualified custodian (vaulted, insured gold), independent audits or attestations, and proper terms.
- **Every claim must be true:** say "planned" until the coins are struck, publish real mintage, weight and fineness from the mint's invoice and assay, and make no profit or "melt value goes up" promises.
- **Not legal tender, not a U.S. coin:** only the U.S. Mint issues U.S. coins. A private-mint piece is a **round / medal / bullion round**. Never call it a "half dollar", give it a face value, or use "United States", "Liberty", "In God We Trust", "E Pluribus Unum", an eagle that copies U.S. designs, or any U.S. coin design. Copying or making a likeness of U.S. coins is restricted (18 U.S.C. §§ 485–489), and tokens meant to circulate as money are illegal (18 U.S.C. § 486, § 491).
- **Hobby Protection Act (15 U.S.C. § 2101; FTC rule 16 CFR Part 304):** any *imitation* of a numismatic item must be permanently marked **"COPY"**. An original Proof of Panda design isn't an imitation. Keep it that way: no copied coin designs.
- **Quality marks (National Gold and Silver Stamping Act, 15 U.S.C. §§ 291–300):** if the round is stamped "22K" or ".9167", the fineness must be accurate within the legal tolerance and it must also carry the maker's **registered trademark** (the mint's mark or yours). Mints handle this routinely.
- **Selling gold:** dealers who buy and sell precious metals above set thresholds have AML obligations under the Bank Secrecy Act. Some states require dealer registration and sales-tax collection. Selling small quantities through eBay or a mint's distribution avoids most of this, but ask a CPA about tax.

5. Physical coin program

5.1 Private mints and refiners (websites checked Nov 25, 2026)

Mint	Where	Gold custom work (from their site)	Contact	Minimums
Intaglio Mint — https://intagliomint.com/minting/	Ozark, MO	Lists .9999 fine gold, private-label bullion, proof-like finishes, in-house die engraving	wholesale@intagliomint.com · (417) 551-9999	Not published, "discuss minimums"
Osborne Mint — https://www.osbornemint.com/999-gold-minting	Cincinnati, OH (oldest private U.S. mint)	.999/.9999 gold rounds struck on a Sack & Kiesselbach press; gold priced at **spot + 1%** plus a strike charge; proof/reverse proof; NGC/PCGS grading guarantee option	info@osbornemint.com · 1-800-488-2646	Gold not published (fine silver 100, base metals 250)
Sunshine Minting — https://www.sunshinemint.com/products	Coeur d'Alene, ID / Henderson, NV	Blanks and struck products in gold; custom products; serial numbering, micro-printing	(702) 826-4441 · 1-800-274-5837	Not published
SilverTowne Mint — https://silvertownemint.com/minting-products/custom-minting/	Winchester, IN (Gold.com subsidiary)	Custom minting; site lists silver/base metals and gold *plating*. **Ask directly whether they strike solid gold.**	sales@SilverTowneMint.com · (765) 595-0555	"Minimum quantities apply"
Elemetal — https://www.elemetal.com/services	Dallas, TX (refiner)	Refiner and wholesale bullion; says it "can provide custom minted products"	sales@elemetal.com · 1-800-889-0396	Not published. Note: the company restructured after 2017 legal issues, and its old Elemetal Mint brand is largely inactive, so do extra due diligence.

Ask every mint: can you supply 22K rose-gold blanks (91.67% Au, Cu balance)? Or only 22K yellow / .9999? Minimum gold quantity, die and sculpting fees, proof finish cost, assay/fineness certificate, weight tolerance, edge reeding, capsule/COA, maker's hallmark, NGC/PCGS submission, lead time, metal-lock and payment terms.

5.2 Cost formula

Per round ≈ (spot gold per ozt × 0.5) × (1 + metal premium) + strike/proof fee + capsule/COA + optional grading, plus one-time die & sculpt cost ÷ quantity

- **Gold spot (checked Nov 25, 2026, 11:49 PM ET): $3,597.60/ozt** (gold-api.com). Re-check on the day you lock.
- **Melt value of 1/2 ozt fine gold:** 0.5 × $3,597.60 = **$1,798.80**
- **Assumed ranges (replace with real quotes):** metal premium 1–3% (Osborne publishes spot + 1%), strike/proof $40–$150 per piece, capsule/COA $5–$15, dies and sculpt $1,500–$5,000 per project, grading ≈ $30–$60 per coin.

Quantity	Est. cost per round	Est. total
25	**$1,922 – $2,218**	$48,000 – $55,400
100	**$1,877 – $2,068**	$187,700 – $206,800

Gold has to be paid up front at lock (Osborne: within 2 days, wire or card +3%).

5.3 Assay, hallmarks, authentication

- The mint's assay/fineness certificate plus a weight and fineness stamp on the round ("1/2 OZT", ".9167" or "22K") and the maker's mark.
- Serial numbers (Sunshine offers them) and a numbered COA.
- Optional: NGC or PCGS grading in sealed holders. A third-party slab is the fastest way to earn buyers' trust in a brand-new private issue.

5.4 Where you can realistically sell

- **Direct:** your website (as a product, with honest specs) and X, priced at spot × 0.5 plus a stated premium. Use a proper checkout and shipping with insurance and signature.
- **eBay:** list under Coins & Paper Money → Bullion → Gold → Rounds with exact weight, fineness, mint, and actual photos (not the mockups). Rose gold is unusual for bullion, so buyers may pay less attention to melt value than to the look; say clearly what it is. New private brands usually sell near melt plus a modest premium. Graded or serialized pieces do better.
- **APMEX / JM Bullion and similar dealers:** they buy inventory wholesale from mints and distributors. Individuals generally **can't consign or list** a new private brand there, and we found no public consignment program for that. They may buy your rounds back at roughly melt minus a spread. The realistic route onto those shelves is through the mint's own distribution, if the mint agrees.
- **Auction houses** (Heritage, Stack's Bowers): only once there's collector demand or graded rarities.
- **Don't** list the gold round as "backed by $PoP" or sell the token as a claim on the coins.

6. Launch checklist

1. Pick a size (B recommended) and alloy (22K or .9999) after getting quotes from 2–3 mints.
2. Send the mint the mockups plus the blueprint and approve its 3D sculpt and die proof.

3. Lock the gold, pay, wait for test strikes, and approve them.
4. Photograph the real coins and replace the mockups. Publish mintage, assay and serials.
5. Separately: create $PoP, revoke authorities, add liquidity, lock or burn the LP **with a public link**, then apply to the trackers.
6. Keep the wording "collectible / not legal tender / not an investment / token not backed by gold" everywhere.

Sources consulted on Nov 25, 2026: usmint.gov (half dollar, coin specifications, American Eagle gold bullion), intagliomint.com, osbornemint.com, osbornecoin.com/faq, sunshinemint.com, silvertownemint.com, elemetal.com, uscode.house.gov (15 U.S.C. § 2101; 18 U.S.C. §§ 486, 489), ecfr.gov (16 CFR 304.6), gold-api.com.