

```
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},
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},
{
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},
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},
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"type": "miscellaneous",
"content": "\n\n"
}
```

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},
{
  "type": "class",
  "content": "class FavoriteToPlaceMonitor:\n  \"\"\"Monitor for favorite-to-place betting opportunities.\n  \"\"\"\n  def __init__(self, target_dates: Optional[List[str]] = None, refresh_interval: int = 30, config: Optional[Dict] = None):\n    \"\"\"Initialize monitor.\n    Args:\n      target_dates: Dates to fetch races for (YYYY-MM-DD), defaults to today + tomorrow\n      refresh_interval: Seconds between refreshes for BET NOW list\n      if target_dates:\n        self.target_dates = target_dates\n      else:\n        today = datetime.now(EASTERN)\n        tomorrow = today + timedelta(days=1)\n        self.target_dates = [today.strftime(\"%Y-%m-%d\"), tomorrow.strftime(\"%Y-%m-%d\")]\n      self.refresh_interval = refresh_interval\n      self.config = config or {}\n      self.all_races: List[RaceSummary] = []\n      self.adapters: List = []\n      self.logger = structlog.get_logger(self.__class__.__name__)\n      self.tracker = HotTipsTracker()\n      async def initialize_adapters(self, adapter_names: Optional[List[str]] = None):\n        \"\"\"Initialize all adapters, optionally filtered by name.\n        \"\"\"\n        all_discovery_classes = get_discovery_adapter_classes()\n        classes_to_init = all_discovery_classes if adapter_names is None else [c for c in all_discovery_classes if c.__name__ in adapter_names or getattr(c, \"SOURCE_NAME\", \"\") in adapter_names]\n        self.logger.info(\"\"\"Initializing adapters\", count=len(classes_to_init))\n        for adapter_class in classes_to_init:\n          try:\n            adapter = adapter_class(config={\"region\": self.config.get(\"region\")})\n            self.adapters.append(adapter)\n            self.logger.debug(\"\"\"Adapter initialized\", adapter=adapter_class.__name__)\n          except Exception as e:\n            self.logger.error(\"\"\"Adapter initialization failed\", adapter=adapter_class.__name__, error=str(e))\n        self.logger.info(\"\"\"Adapters initialization complete\", initialized=len(self.adapters))\n      async def fetch_all_races(self) -> List[Tuple[Race, str]]:\n        \"\"\"Fetch races from all adapters.\n        \"\"\"\n        self.logger.info(\"\"\"Fetching races\", dates=self.target_dates)\n        all_races_with_adapters = []\n        # Run fetches in parallel for speed\n        async def fetch_one(adapter, date_str):\n          name = adapter.__class__.__name__\n          try:\n            races = await adapter.get_races(date_str)\n            self.logger.info(\"\"\"Fetch complete\", adapter=name, date=date_str, count=len(races))\n            return [(r, name) for r in races]\n          except Exception as e:\n            self.logger.error(\"\"\"Fetch failed\", adapter=name, date=date_str, error=str(e))\n        fetch_tasks = []\n        for d in self.target_dates:\n          for a in self.adapters:\n            fetch_tasks.append(fetch_one(a, d))\n        results = await asyncio.gather(*fetch_tasks)\n        for r_list in results:\n          all_races_with_adapters.extend(r_list)\n        self.logger.info(\"\"\"Total races fetched\", total=len(all_races_with_adapters))\n        return all_races_with_adapters\n      def _get_discipline_code(self, race: Race) -> str:\n        \"\"\"Get discipline code (T/H/G).\"\"\"\n        if not race.discipline:\n          return \"T\"\n        d = race.discipline.lower()\n        if \"harness\" in d or \"standardbred\" in d:\n          return \"H\"\n        if \"greyhound\" in d or \"dog\" in d:\n          return \"G\"\n        return \"T\"\n      def _calculate_field_size(self, race: Race) -> int:\n        \"\"\"Calculate active field size.\n        \"\"\"\n        return len([r for r in race.runners if not r.scratched])\n      def _has_superfecta(self, race: Race) -> bool:\n        \"\"\"Check if race offers Superfecta.\n        \"\"\"\n        ab = race.available_bets or []\n        # Support metadata fallback if field not populated\n        if not ab and hasattr(race, 'metadata'):\n          ab = race.metadata.get('available_bets', [])\n        return \"Superfecta\" in ab\n      def _get_top_runners(self, race: Race, limit: int = 5) -> List[Runner]:\n        \"\"\"Get top runners by odds, sorted lowest first.\n        \"\"\"\n        # Get active runners with valid odds\n        r_with_odds = []\n        for r in race.runners:\n          if r.scratched:\n            continue\n          # Refresh odds to avoid stale metadata in continuous monitor mode\n          wo = _get_best_win_odds(r)\n          if wo is not None and wo > 1.0:\n            # Update runner object with fresh odds for downstream summaries\n            r.win_odds = float(wo)\n          return []\n        # Sort by odds (lowest first)\n        sorted_r = sorted(r_with_odds, key=lambda x: x[1])\n        return [x[0] for x in sorted_r[:limit]]\n      def _calculate_mtp(self, start_time: Optional[datetime]) -> int:\n        \"\"\"Calculate minutes to post.\n        Returns -9999 if start_time is None.\n        \"\"\"\n        if not start_time:\n          return -9999\n        now = now_eastern()\n        # Use ensure_eastern to handle naive or other timezones correctly\n        st = ensure_eastern(start_time)\n        delta = st - now\n        return int(delta.total_seconds() / 60)\n      def _get_top_n_runners(self, race: Race, n: int = 5) -> str:\n        \"\"\"Get top N runners by win odds.\n        \"\"\"\n        top_runners = self._get_top_runners(race, limit=n)\n        return \"\"\".join([str(r.number) if r.number is not None else \"?\" for r in top_runners])\n      def _create_race_summary(self, race: Race, adapter_name: str) -> RaceSummary:\n        \"\"\"Create a RaceSummary from a Race object.\n        \"\"\"\n        top_runners = self._get_top_runners(race, limit=5)\n        favorite = top_runners[0] if len(top_runners) >= 1 else None\n        second_fav = top_runners[1] if len(top_runners) >= 2 else None\n        gap12 = 0.0\n        if favorite and second_fav and favorite.win_odds and second_fav.win_odds:\n          gap12 = round(second_fav.win_odds - favorite.win_odds, 2)\n        return RaceSummary(\n          discipline=self._get_discipline_code(race),\n          track=normalize_venue_name(race.venue),\n          race_number=race.race_number,\n          field_size=self._calculate_field_size(race),\n          superfecta_offered=self._has_superfecta(race),\n          adapter=adapter_name,\n          start_time=race.start_time,\n          mtp=self._calculate_mtp(race.start_time),\n          second_fav_odds=second_fav.win_odds if second_fav else None,\n          second_fav_name=second_fav.name if second_fav else None,\n          selection_number=second_fav.number if second_fav else None,\n          favorite_odds=favorite.win_odds if favorite else None,\n          favorite_name=favorite.name if favorite else None,\n          top_five_numbers=self._get_top_n_runners(race, 5),\n          gap12=gap12,\n          is_goldmine=race.metadata.get('is_goldmine', False),\n          is_best_bet=race.metadata.get('is_best_bet', False),\n          )\n      async def build_race_summaries(self, races_with_adapters: List[Tuple[Race, str]], window_hours: Optional[int] = 12):\n        \"\"\"Build and deduplicate summary list, with optional time window filtering.\n        \"\"\"\n        race_map = {}\n        now = datetime.now(EASTERN)\n        cutoff = now + timedelta(hours=window_hours) if window_hours else None\n        for race, adapter_name in races_with_adapters:\n          try:\n            st = race.start_time\n            if st.tzinfo is None:\n              st = st.replace(tzinfo=EASTERN)\n            # Time window filtering removed to ensure all unique races are counted\n            summary = self._create_race_summary(race, adapter_name)\n            # Stable key: Canonical Venue + Race Number + Date\n            canonical_venue = getCanonicalVenue(summary.track)\n            date_str = summary.start_time.strftime(\"%Y-%m-%d\")\n            if summary.start_time else \"Unknown\"\n            key = f\"{canonical_venue}|{summary.race_number}|{date_str}\"}\n            if key not in race_map:\n              race_map[key] = summary\n            else:\n              existing = race_map[key]\n              if existing.second_fav_odds and not existing.second_fav_odds:\n                race_map[key] = summary\n              else:\n                if existing.second_fav_odds <= 0.05:\n                  race_map[key] = summary\n                else:\n                  race_map[key] = existing\n            if summary.second_fav_odds and not existing.second_fav_odds:\n              race_map[key] = summary\n            else:\n              race_map[key] = existing\n          except Exception:\n            pass\n        unique_summaries = list(race_map.values())\n        self.all_races = sorted(unique_summaries, key=lambda x: x.start_time)\n        # GPT5 Improvement: Keep all races within window for analysis, not just one per track.\n        # Window broadened to 18 hours (News Mode)\n        timing_window_summaries = []\n        now = datetime.now(EASTERN)\n        for summary in unique_summaries:\n          st = summary.start_time\n          if st.tzinfo is None:\n            st = st.replace(tzinfo=EASTERN)\n          # Calculate Minutes to Post\n          diff = st - now\n          mtp = diff.total_seconds() / 60\n          # Broaden window to 18 hours to ensure yield for \"News\"\n          if -45 < mtp <= 1080:\n            # 18 hours\n            timing_window_summaries.append(summary)\n        self.golden_zone_races = timing_window_summaries if not self.golden_zone_races:\n          self.logger.warning(\"\"\"ud83d\udc2d Monitor found 0 races in the Broadened Window (-45m to 18h)\\"\"\")\n        total_unique=len(unique_summaries)\n        def print_full_list(self):\n          \"\"\"Log all fetched races.\n          \"\"\"\n          lines = [\n            f\"\"\"{\"\"\".join([str(r) for r in self.all_races])}\"\"\"}\n            for r in self.all_races\n          ]\n          self.logger.info(\"\"\"{\"\"\".join(lines)}\"\"\")\n        def get_bet_now_races(self) -> List[RaceSummary]:\n          \"\"\"Get races meeting BET NOW criteria.\n          \"\"\"\n          # 1. MTP <= 120 (Broadened for yield)\n          # 2. 2nd Fav Odds >= 4.0\n          # 3. Field size <= 11 (User Directive)\n          # 4. Gap > 0.25 (User Directive)\n          bet_now = [\n            r for r in self.all_races\n            if r.mtp is not None and -10 < r.mtp <= 120\n            and r.second_fav_odds is not None and r.second_fav_odds >= 4.0\n            and r.field_size <= 11\n            and r.gap12 > 0.25\n          ]\n          # Sort by Superfecta desc, then MTP asc\n          bet_now.sort(key=lambda r: (not r.superfecta_offered, r.mtp))\n        return bet_now\n      def

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True\n\n try:\n # Check if playwright is installed and has a chromium binary\n from playwright.async_api import
async_playwright\n async with async_playwright() as p:\n try:\n # We try to launch a headless browser to verify installation\n
browser = await p.chromium.launch(headless=True)\n await browser.close()\n return True\n except Exception as e:\n
structlog.get_logger().debug(\"Playwright launch failed during verification\", error=str(e))\n if is_frozen():\n
structlog.get_logger().info(\"Frozen app: Playwright launch failed, using HTTP-only fallbacks\")\n return True\n except
ImportError:\n structlog.get_logger().debug(\"Playwright not imported\")\n if is_frozen(): return True\n\n if is_frozen():\n
return True\n\n structlog.get_logger().info(\"Installing browser dependencies (Playwright Chromium)...\")\n try:\n # Run
installation in a separate process to avoid blocking the loop too much\n subprocess.run([sys.executable, \"-m\", \"pip\"],
\"install\", \"playwright==1.49.1\"], check=True, capture_output=True, text=True)\n subprocess.run([sys.executable, \"-m\",
\"playwright\", \"install\"], check=True, capture_output=True, text=True)\n
structlog.get_logger().info(\"Browser dependencies installed successfully.\")\n return True\n except
subprocess.CalledProcessError as e:\n structlog.get_logger().error(\"Failed to install browsers\", error=str(e)),\n
returncode=e.returncode,\n stdout=e.stdout,\n stderr=e.stderr\n )\n return False\n except Exception as e:\n
structlog.get_logger().error(\"Unexpected error installing browsers\", error=str(e))\n return False\n",
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},
{
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},
{
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"content": "async def main_all_in_one():\n # Configure logging at the start of main\n structlog.configure(\n
wrapper_class=structlog.make_filtering_bound_logger(logging.INFO))\n # Ensure DB path env is set if passed via argument or
already in environment\n # Actually, we should probably add a --db-path arg here too for parity with analytics\n config =
load_config()\n logger = structlog.get_logger(\"main\")\n parser = argparse.ArgumentParser(description=\"Fortuna All-In-One -
Professional Racing Intelligence\")\n parser.add_argument(\"--date\", type=str, help=\"Target date (YYYY-MM-DD)\")\n
parser.add_argument(\"--hours\", type=int, default=8, help=\"Discovery time window in hours (default: 8)\")\n
parser.add_argument(\"--monitor\", action=\"store_true\", help=\"Run in monitor mode\")\n parser.add_argument(\"--once\",
action=\"store_true\", help=\"Run monitor once\")\n parser.add_argument(\"--region\", type=str, choices=[\"USA\", \"INT\",
\"GLOBAL\"], help=\"Filter by region (USA, INT or GLOBAL)\")\n parser.add_argument(\"--include\", type=str,
help=\"Comma-separated adapter names to include\")\n parser.add_argument(\"--save\", type=str, help=\"Save races to JSON
file\")\n parser.add_argument(\"--load\", type=str, help=\"Load races from JSON file(s), comma-separated\")\n
parser.add_argument(\"--fetch-only\", action=\"store_true\", help=\"Only fetch and save data, skip analysis and reporting\")\n
parser.add_argument(\"--db-path\", type=str, help=\"Path to tip history database\")\n parser.add_argument(\"--clear-db\",
action=\"store_true\", help=\"Clear all tips from the database and exit\")\n parser.add_argument(\"--gui\",
action=\"store_true\", help=\"Start the Fortuna Desktop GUI\")\n parser.add_argument(\"--live-dashboard\",
action=\"store_true\", help=\"Show live updating terminal dashboard\")\n parser.add_argument(\"--track-odds\",
action=\"store_true\", help=\"Monitor live odds and send notifications\")\n parser.add_argument(\"--status\",
action=\"store_true\", help=\"Show application status card and latest metrics\")\n parser.add_argument(\"--show-log\",
action=\"store_true\", help=\"Print recent fetch/audit highlights\")\n parser.add_argument(\"--quick-help\",
action=\"store_true\", help=\"Show friendly onboarding guide\")\n parser.add_argument(\"--open-dashboard\",
action=\"store_true\", help=\"Open the HTML intelligence report in browser\")\n args = parser.parse_args()\n\n if
args.quick_help:\n print_quick_help()\n return\n\n if args.status:\n print_status_card(config)\n return\n\n if
args.show_log:\n await print_recent_logs()\n return\n\n if args.open_dashboard:\n open_report_in_browser()\n return\n\n if
args.db_path:\n os.environ[\"FORTUNA_DB_PATH\"] = args.db_path\n\n if args.quick_help:\n print_quick_help()\n return\n\n if
args.status:\n print_status_card(config)\n return\n\n if args.show_log:\n await print_recent_logs()\n return\n\n if
args.open_dashboard:\n open_report_in_browser()\n return\n\n # Print status card for all normal runs\n
print_status_card(config)\n\n if args.gui:\n # Start GUI. It runs its own event loop for the webview.\n await
ensure_browsers()\n await start_desktop_app()\n return\n\n if args.clear_db:\n db = FortunaDB()\n await db.clear_all_tips()\n
await db.close()\n print(\"Database cleared successfully.\")\n return\n\n adapter_filter = [n.strip() for n in
args.include.split(\",\")]\n if args.include else None\n\n # Use default region if not specified\n if not args.region:\n
args.region = config.get(\"region\", {}).get(\"default\", DEFAULT_REGION)\n structlog.get_logger().info(\"Using default
region\", region=args.region)\n\n # Region-based adapter filtering\n if args.region:\n if args.region == \"USA\":\n
target_set = USA_DISCOVERY_ADAPTERS\n elif args.region == \"INT\":\n target_set = INT_DISCOVERY_ADAPTERS\n else:\n
target_set = GLOBAL_DISCOVERY_ADAPTERS\n\n if adapter_filter:\n adapter_filter = [n for n in adapter_filter if n in target_set]\n
else:\n adapter_filter = list(target_set)\n\n # Special case: TwinSpires needs to know its region internally if it's not filtered
out\n # We can pass the region via config if we were creating adapters manually,\n # but here we use names.\n # Actually, I
updated TwinSpiresAdapter to check self.config.get(\"region\").\n # I need to ensure the adapter gets this config.\n\n
loaded_races = None\n\n if args.load:\n loaded_races = []\n for path in args.load.split(\",\"):\n path = path.strip()\n if not
os.path.exists(path):\n print(f\"Warning: File not found: {path}\")\n logger.warning(\"Race data file not found\",
path)\n continue\n try:\n with open(path, \"r\") as f:\n data = json.load(f)\n
loaded_races.extend([Race.model_validate(r) for r in data])\n except Exception as e:\n print(f\"Error loading {path}: {e}\")\n
logger.error(\"Failed to load race data\", path=path, error=str(e), exc_info=True)\n\n if args.date:\n target_dates =
[args.date]\n else:\n now = datetime.now(EASTERN)\n future = now + timedelta(hours=args.hours)\n\n target_dates =
[now.strftime(\"%Y-%m-%d\")]\n if future.date() > now.date():\n target_dates.append(future.strftime(\"%Y-%m-%d\"))\n\n if
args.monitor:\n await ensure_browsers()\n monitor = FavoriteToPlaceMonitor(target_dates=target_dates)\n # Pass region config
to monitor\n monitor.config[\"region\"] = args.region\n if args.once:\n await monitor.run_once(loaded_races=loaded_races,
adapter_names=adapter_filter)\n if config.get(\"ui\", {}).get(\"auto_open_report\", True) and not
os.getenv(\"GITHUB_ACTIONS\"):\n open_report_in_browser()\n else:\n await monitor.run_continuous()\n # Continuous mode doesn't
support load/filter yet for simplicity\n else:\n await ensure_browsers()\n await run_discovery()\n target_dates,\n
window_hours=args.hours,\n loaded_races=loaded_races,\n adapter_names=adapter_filter,\n save_path=args.save,\n
fetch_only=args.fetch_only,\n live_dashboard=args.live_dashboard,\n track_odds=args.track_odds,\n region=args.region, # Pass
region to run_discovery\n config=config\n\n # Post-run UI enhancements (Council of Superbrains Directive)\n if
config.get(\"ui\", {}).get(\"auto_open_report\", True) and not os.getenv(\"GITHUB_ACTIONS\"):\n open_report_in_browser()\n",
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},
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},
{
"type": "unknown",
"content": "if __name__ == \"__main__\":\n if os.getenv(\"DEBUG_SNAPSHOTS\"):\n os.makedirs(\"debug_snapshots\",
exist_ok=True)\n\n # Windows Event Loop Policy Fix (Project Hardening)\n if sys.platform == 'win32':\n try:\n # We prefer

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ProactorEventLoopPolicy for subprocess support (Playwright requirement)\n# This is also set at the top of the file for frozen\nEXEs.\nasyncio.set_event_loop_policy(asyncio.WindowsProactorEventLoopPolicy())\nexcept AttributeError:\n# Fallback if\nProactor is not available (should be rare on modern Windows)\ntry:\nasyncio.set_event_loop_policy(asyncio.WindowsSelectorEventLoopPolicy())\nexcept AttributeError:\n    pass\n\ntry:\n    asyncio.run(main_all_in_one())\nexcept KeyboardInterrupt:\n    pass\n\n}\n]\n}
```