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db_path: Optional[str] = None):\n self.db = FortunaDB(db_path) if db_path else FortunaDB()\n self.logger =
structlog.get_logger(self.__class__.__name__)\n\n async def log_tips(self, races: List[Race]):\n if not races:\n return\n\n await self.db.initialize()\n now = datetime.now(EASTERN)\n report_date = now.isoformat()\n new_tips = []\n\n # Strict future
cutoff to prevent leakage (Never log more than 20 mins ahead)\n future_limit = now + timedelta(minutes=45)\n\n for r in
races:\n # Only store \"Best Bets\" (Goldmine, BET NOW, or You Might Like)\n # These are marked in metadata by the analyzer.\n\n if not r.metadata.get('is_best_bet') and not r.metadata.get('is_goldmine'):\n continue\n\n # Trustworthiness Airlock Safeguard
(Council of Superbrains Directive)\n active_runners = [run for run in r.runners if not run.scratched]\n total_active =
len(active_runners)\n\n # Ensure trustworthy odds exist before logging (Memory Directive Fix)\n\n if
r.metadata.get('predicted_2nd_fav_odds') is None:\n continue\n\n if total_active > 0:\n trustworthy_count = sum(1 for run in
active_runners if run.metadata.get('odds_source_trustworthy'))\n\n trust_ratio = trustworthy_count / total_active\n\n if
trust_ratio < 0.5:\n self.logger.warning(\"Rejecting race with low trust_ratio for DB logging\", venue=r.venue,
race=r.race_number, trust_ratio=round(trust_ratio, 2))\n\n continue\n\n st = r.start_time\n\n if isinstance(st, str):\n try: st =
datetime.fromisoformat(st.replace('Z', '+00:00'))\n\n except Exception: continue\n\n if st.tzinfo is None: st =
st.replace(tzinfo=EASTERN)\n\n # Reject races too far in the future\n\n if st > future_limit or st < now -
timedelta(minutes=10):\n self.logger.debug(\"Rejecting far-future race\", venue=r.venue, start_time=st)\n\n continue\n\n\n
is_goldmine = r.metadata.get('is_goldmine', False)\n\n gap12 = r.metadata.get('1Gap2', 0.0)\n\n tip_data = {\n\n \"report_date\":
report_date,\n\n \"race_id\": r.id,\n\n \"venue\": r.venue,\n\n \"race_number\": r.race_number,\n\n \"start_time\":
r.start_time.isoformat() if isinstance(r.start_time, datetime) else str(r.start_time),\n\n \"is_goldmine\": is_goldmine,\n\n
\"1Gap2\": gap12,\n\n \"discipline\": r.discipline,\n\n \"top_five\": r.top_five_numbers,\n\n \"selection_number\":
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r.metadata.get('predicted_2nd_fav_odds')\n\n }\n\n new_tips.append(tip_data)\n\n\n try:\n\n await self.db.log_tips(new_tips)\n\n
self.logger.info(\"Hot tips processed\", count=len(new_tips))\n\n except Exception as e:\n\n self.logger.error(\"Failed to log hot
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monitors racing data from multiple adapters and identifies\n\nbetting opportunities based on:\n\n1. Second favorite odds >= 4.0
decimal\n\n2. Races under 120 minutes to post (MTP)\n\n3. Superfecta availability preferred\n\n\nUsage:\n\n python
favorite_to_place_monitor.py [--date YYYY-MM-DD] [--refresh-interval 30]\n\n\"\"\""
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race_number: int\n field_size: int\n superfecta_offered: bool\n adapter: str\n start_time: datetime\n mtp: Optional[int] =
None\n Minutes to post\n second_fav_odds: Optional[float] = None\n second_fav_name: Optional[str] = None\n selection_number:
Optional[int] = None\n favorite_odds: Optional[float] = None\n favorite_name: Optional[str] = None\n top_five_numbers:
Optional[str] = None\n gap12: float = 0.0\n is_goldmine: bool = False\n is_best_bet: bool = False\n\n def to_dict(self) ->
dict:\n\n \"\"\"Convert to dictionary for JSON serialization.\"\"\"\n\n return {\n\n \"discipline\": self.discipline,\n\n \"track\":
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adapter classes.\"\"\"\n\n def get_all_subclasses(cls):\n\n return set(cls.__subclasses__()).union([s for c in
cls.__subclasses__() for s in get_all_subclasses(c)])\n\n\n return [n c for c in get_all_subclasses(BaseAdapterV3)\n\n if not
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  "content": "class FavoriteToPlaceMonitor:\n\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\n        \"\"\"Initialize monitor.\n\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\n        \"\"\"\n\n        if target_dates is None:\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\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\n        async def initialize_adapters(self, adapter_names: Optional[List[str]] = None):\n\n            \"\"\"Initialize all adapters, optionally filtered by name.\"\"\"\n\n            all_discovery_classes = get_discovery_adapter_classes()\n            classes_to_init = all_discovery_classes\n            if adapter_names:\n                classes_to_init = [c for c in all_discovery_classes if c.__name__ in adapter_names or getattr(c, \"SOURCE_NAME\", \"\") in adapter_names]\n\n            self.logger.info(\"Initializing adapters\", count=len(classes_to_init))\n\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\n            self.logger.info(\"Adapters initialization complete\", initialized=len(self.adapters))\n\n        async def fetch_all_races(self) -> List[Tuple[Race, str]]:\n\n            \"\"\"Fetch races from all adapters.\"\"\"\n\n            self.logger.info(\"Fetching races\", dates=self.target_dates)\n\n            all_races_with_adapters = []\n\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                except Exception as e:\n                    self.logger.error(\"Fetch failed\", adapter=name, date=date_str, error=str(e))\n                return []\n\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\n            results = await asyncio.gather(*fetch_tasks)\n\n            for r_list in results:\n                all_races_with_adapters.extend(r_list)\n\n            self.logger.info(\"Total races fetched\", total=len(all_races_with_adapters))\n\n            return all_races_with_adapters\n\n        def _get_discipline_code(self, race: Race) -> str:\n\n            \"\"\"Get discipline code (T/H/G).\"\"\"\n\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\n        def _calculate_field_size(self, race: Race) -> int:\n\n            \"\"\"Calculate active field size.\"\"\"\n\n            return len([r for r in race.runners if not r.scratched])\n\n        def _has_superfecta(self, race: Race) -> bool:\n\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\n        def _get_top_runners(self, race: Race, limit: int = 5) -> List[Runner]:\n\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\n            # Store the Decimal odds directly for sorting to avoid conversion\n            r_with_odds.append((r, wo))\n\n            if not r_with_odds:\n                return []\n\n            # Sort by odds (lowest first)\n            sorted_r = sorted(r_with_odds, key=lambda x: x[1])\n\n            return [x[0] for x in sorted_r[:limit]]\n\n        def _calculate_mtp(self, start_time: Optional[datetime]) -> int:\n\n            \"\"\"Calculate minutes to post. 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\n        def _get_top_n_runners(self, race: Race, n: int = 5) -> str:\n\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\n        def _create_race_summary(self, race: Race, adapter_name: str) -> RaceSummary:\n\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\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\n        @n_async def build_race_summaries(self, races_with_adapters: List[Tuple[Race, str]], window_hours: Optional[int] = 12):\n\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\n            for race, adapter_name in races_with_adapters:\n                try:\n                    # Time window filtering\n                    st = race.start_time\n                    if st.tzinfo is None:\n                        st = st.replace(tzinfo=EASTERN)\n\n                    # Time window filtering removed to ensure all unique races are counted\n                    summary = self._create_race_summary(race, adapter_name)\n\n                    # Stable key: Canonical Venue + Race Number + Date\n                    canonical_venue = get_canonical_venue(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\n                    if key not in race_map:\n                        race_map[key] = summary\n                    else:\n                        existing = race_map[key]\n                        # Prefer the one with valid second favorite odds\n                        if summary.second_fav_odds and not existing.second_fav_odds:\n                            race_map[key] = summary\n                        # Or prefer more detailed available bets\n                        elif summary.superfecta_offered and not existing.superfecta_offered:\n                            race_map[key] = summary\n                except Exception:\n                    pass\n\n            unique_summaries = list(race_map.values())\n            self.all_races = sorted(unique_summaries, key=lambda x: x.start_time)\n\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\n                # Calculate Minutes to Post\n                diff = st - now\n                mtp = diff.total_seconds() / 60\n\n                # Broaden window to 18 hours to ensure yield for News\n                if -45 < mtp <= 1080:\n                    hours = timing_window_summaries.append(summary)\n\n            self.golden_zone_races = timing_window_summaries\n\n            if not self.golden_zone_races:\n                self.logger.warning(\"\\ud83d\\udd2d Monitor found 0 races in the Broadened Window (-45m to 18h)\", total_unique=len(unique_summaries))\n\n            def print_full_list(self):\n\n                \"\"\"Log all fetched races.\"\"\"\n\n                lines = [\"\\n\" * 120, \"\\n FULL RACE LIST\".center(120), \"\\n\" * 120, f\"{'DISC':<5} {'TRACK':<25} {'R#':<4} {'FIELD':<6} {'SUPER':<6} {'ADAPTER':<25} {'START TIME':<20}\\n\", \"\\n\" * 120]\n\n                for r in sorted(self.all_races, key=lambda x: (x.discipline, x.track, x.race_number)):\n                    if r.superfecta == \"Yes\":\n                        if r.superfecta_offered else \"No\"\n                    # Display time in Eastern with ET suffix\n                    st = r.start_time.strftime(\"%Y-%m-%d %H:%M ET\") if r.start_time else \"Unknown\"\n\n                lines.append(f\"{r.discipline:<5} {r.track[:24]:<25} {r.race_number:<4} {r.field_size:<6} {superfecta:<6} {r.adapter[:24]:<25} {st:<20}\\n\")\n                lines.append(\"\\n\" * 120)\n                lines.append(f\"Total races: {len(self.all_races)}\\n\")\n\n            self.logger.info(\"\\n\\n\\n\".join(lines))\n\n        def get_bet_now_races(self) -> List[RaceSummary]:\n\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 = [r for r in self.golden_zone_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\n            return bet_now\n\n        def

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you_might_like_races(self)
Criteria: Not in BET NOW, but -10 < MTP <= 240 (4h) and 2nd Fav Odds >= 3.0\n # and field size <= 11 and Gap > 0.25\n
bet_now_keys = {(r.track, r.race_number) for r in self.get_bet_now_races()}\n yml = [r for r in self.golden_zone_races\n if
r.mtp is not None and -10 < r.mtp <= 240\n and r.second_fav_odds is not None and r.second_fav_odds >= 3.0\n and r.field_size
<= 11\n and r.gap12 > 0.25\n and (r.track, r.race_number) not in bet_now_keys\n ]\n # Sort by MTP asc\n yml.sort(key=lambda r:
r.mtp)\n return yml[:5] # Limit to top 5 recommendations\n\n async def print_bet_now_list(self):\n \"\"\"Log filtered BET NOW
list and recent audited goldmine results.\"\"\"\n bet_now = self.get_bet_now_races()\n lines = [f\"{r.track} {r.race_number}
{r.mtp} {r.second_fav_odds} {r.field_size} {r.gap12} {r.gap24} {r.gap36} {r.gap48} {r.gap60} {r.gap72} {r.gap84} {r.gap96}
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{r.gap3432} {r.gap3444} {r.gap3456} {r.gap3468} {r.gap3480} {r.gap3492} {r.gap3504} {r.gap3516} {r.gap3528} {r.gap3540}
{r.gap3552} {r.gap3564} {r.gap3576} {r.gap3588} {r.gap3600} {r.gap3612} {r.gap3624} {r.gap3636} {r.gap3648} {r.gap3660}
{r.gap3672} {r.gap3684} {r.gap3696} {r.gap3708} {r.gap3720} {r.gap3732} {r.gap3744} {r.gap3756} {r.gap3768} {r.gap3780}
{r.gap3792} {r.gap3804} {r.gap3816} {r.gap3828} {r.gap3840} {r.gap3852} {r.gap3864} {r.gap3876} {r.gap3888} {r.gap3900}
{r.gap3912} {r.gap3924} {r.gap3936} {r.gap3948} {r.gap3960} {r.gap3972} {r.gap3984} {r.gap3996} {r.gap4008} {r.gap4020}
{r.gap4032} {r.gap4044} {r.gap4056} {r.gap4068} {r.gap4080} {r.gap4092} {r.gap4104} {r.gap4116} {r.gap4128} {r.gap4140}
{r.gap4152} {r.gap4164} {r.gap4176} {r.gap4188} {r.gap4200} {r.gap4212} {r.gap4224} {r.gap4236} {r.gap4248} {r.gap4260}
{r.gap4272} {r.gap4284} {r.gap4296} {r.gap4308} {r.gap4320} {r.gap4332} {r.gap4344} {r.gap4356} {r.gap4368} {r.gap4380}
{r.gap4392} {r.gap4404} {r.gap4416} {r.gap4428} {r.gap4440} {r.gap4452} {r.gap4464} {r.gap4476} {r.gap4488} {r.gap4500}
{r.gap4512} {r.gap4524} {r.gap4536} {r.gap4548} {r.gap4560} {r.gap4572} {r.gap4584} {r.gap4596} {r.gap4608} {r.gap4620}
{r.gap4632} {r.gap4644} {r.gap4656} {r.gap4668} {r.gap4680} {r.gap4692} {r.gap4704} {r.gap4716} {r.gap4728} {r.gap4740}
{r.gap4752} {r.gap4764} {r.gap4776} {r.gap4788} {r.gap4800} {r.gap4812} {r.gap4824} {r.gap4836} {r.gap4848} {r.gap4860}
{r.gap4872} {r.gap4884} {r.gap4896} {r.gap4908} {r.gap4920} {r.gap4932} {r.gap4944} {r.gap4956} {r.gap4968} {r.gap4980}
{r.gap4992} {r.gap5004} {r.gap5016} {r.gap5028} {r.gap5040} {r.gap5052} {r.gap5064} {r.gap5076} {r.gap5088} {r.gap
```

[illegible]

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break\n if not venue:\n # Fallback to title\n title = parser.css_first('title')\n if title:\n # 14:32 DUNDALK | Races 28  
January 2026 ... \n match = re.search(r'(\d{1,2}):(\d{2})\\s+([^\n]+)', title.text())\n if match:\n time_str = match.group(1)\n venue = normalize_venue_name(match.group(2).strip())\n start_time = datetime.combine(race_date, datetime.strptime(time_str,\n \"%H:%M\").time())\n\n if not venue or not start_time:\n continue\n\n # Betting Forecast Parsing\n forecast_map = {}\n verdict_section = parser.css_first('section.rp-verdict')\n\n if verdict_section:\n forecast_text =\n clean_text(verdict_section.text())\n\n if \"Betting Forecast :\" in forecast_text:\n # \"Betting Forecast : 15/8 2.87 Spring Is  
Here, 3/1 4 This Guy, ...\" \n after_forecast = forecast_text.split('Betting Forecast :')[1]\n # Split by comma\n parts =\n after_forecast.split(',')\n\n for part in parts:\n # Match odds and then name\n # Odds can be fractional space decimal\n m =\n re.search(r'(\d+/\d+|EVENS)\\s+([^\n.]+)?\\s*(.+)', part.strip())\n\n if m:\n odds_str = m.group(1)\n name =\n clean_text(m.group(3))\n\n forecast_map[name.lower()] = odds_str\n\n # Runners\n runners = []\n\n # Use tbody as the main  
container for each runner\n\n for row in parser.css('tbody.rp-horse-row'):\n\n if runner := self._parse_runner(row,\n forecast_map):\n runners.append(runner)\n\n if not runners:\n continue\n\n # Race number from URL or sequence\n race_number =\n 0\n\n num_match = re.search(r'(\d+)/([^\n/]+)$', url_path)\n\n # .../1432/207/1/view... -> the '1' is the race number\n url_parts =\n url_path.split('/')\n\n if len(url_parts) >= 10:\n try: race_number = int(url_parts[9])\n\n except Exception: pass\n\n race =\n Race(\n id=f\"tf_{venue.lower().replace(' ', '')}_{start_time:%Y%m%d}_R{race_number}\",\n venue=venue,\n race_number=race_number,\n start_time=start_time,\n runners=runners,\n source=self.source_name,\n )\n\n all_races.append(race)\n\n except Exception as e:\n self.logger.warning(f\"Error parsing Timeform race: {e}\")\n\n continue\n\n return all_races\n\n def\n _parse_runner(self, row: Node, forecast_map: dict = None) -> Optional[Runner]:\n\n \"\"\"Parses a single runner from a table row  
node.\"\"\"\n\n try:\n name_node = row.css_first('a.rp-horse')\n\n or row.css_first('a.rp-horseTable_horse-name')\n\n if not\n name_node:\n return None\n\n name = clean_text(name_node.text())\n\n number = 0\n\n num_attr =\n row.attributes.get('data-entrynumber')\n\n if num_attr:\n try:\n val = int(num_attr)\n\n if val <= 40:\n number = val\n\n except\n Exception:\n pass\n\n if not number:\n num_node = row.css_first('a.rp-entry-number')\n\n or\n row.css_first('span.rp-horseTable_horse-number')\n\n if num_node:\n num_text = clean_text(num_node.text()).strip('()')\n\n num_match = re.search(r'(\d+)', num_text)\n\n if num_match:\n val = int(num_match.group(1))\n\n if val <= 40:\n number = val\n\n win_odds = None\n\n if forecast_map:\n win_odds = parse_odds_to_decimal(forecast_map.get(name.lower()))\n\n # Try to find live  
odds button if available (old selector)\n\n if not win_odds:\n odds_tag = row.css_first('button.rp-bet-placer-btn_odds')\n\n if\n odds_tag:\n win_odds = parse_odds_to_decimal(clean_text(odds_tag.text()))\n\n odds_data = {}\n\n if odds_val :=\n create_odds_data(self.source_name, win_odds):\n odds_data[self.source_name] = odds_val\n\n return Runner(number=number,\n name=name, odds=odds_data)\n\n except (AttributeError, ValueError, TypeError):\n return None\n\n\",  
\"name\": \"TimeformAdapter\"  
},  
{  
\"type\": \"miscellaneous\",  
\"content\": \"\n python_service/adapters/racingpost_adapter.py\n\n\n\n\n\",  
},  
{  
\"type\": \"class\",  
\"content\": \"class RacingPostAdapter(BrowserHeadersMixin, DebugMixin, BaseAdapterV3):\n\n \"\"\"Adapter for scraping Racing  
Post racecards, migrated to BaseAdapterV3.\"\"\"\n\n SOURCE_NAME = \"RacingPost\"\n\n BASE_URL =\n \"https://www.racingpost.com\"\n\n def __init__(self, config=None):\n super().__init__(source_name=self.SOURCE_NAME,\n base_url=self.BASE_URL,\n config=config)\n\n def _configure_fetch_strategy(self) -> FetchStrategy:\n # RacingPost has strong  
anti-bot measures. Playwright with stealth is usually the best bet.\n\n return FetchStrategy(\n primary_engine=BrowserEngine.PLAYWRIGHT,\n enable_js=True,\n stealth_mode=\"camouflage\", \n timeout=90,\n block_resources=False,\n network_idle=True)\n\n def _get_headers(self) -> dict:\n return\n self._get_browser_headers(host=\"www.racingpost.com\")\n\n\n async def _fetch_data(self, date: str) -> Any:\n \"\"\"Fetches  
the raw HTML content for all races on a given date, including international.\"\"\"\n\n intl_urls = f\"/racecards/{date}\" \n\n #  
RacingPost international URL sometimes varies\n\n intl_urls = [f\"/racecards/international/{date}\", \n f\"/racecards/{date}/international\", \n f\"/racecards/international\"]\n\n intl_response = await self.make_request(\"GET\", \n index_url, \n headers=self._get_headers())\n\n intl_response = None\n\n for url in intl_urls:\n resp = await\n self.make_request(\"GET\", url, headers=self._get_headers())\n\n if resp and resp.status == 200:\n intl_response = resp\n\n break\n\n race_card_urls = []\n\n try:\n target_date = datetime.strptime(date, \"%Y-%m-%d\").date()\n\n except Exception:\n target_date = datetime.now(EASTERN).date()\n\n site_tz = ZoneInfo(\"Europe/London\")\n\n now_site = datetime.now(site_tz)\n\n if\n intl_response and intl_response.text:\n self._save_debug_html(index_response.text, f\"racingpost_index_{date}\")\n\n index_parser = HTMLParser(index_response.text)\n\n # Broaden window to capture multiple races (Memory Directive Fix)\n\n meetings = index_parser.css('rp-raceCourse_panel')\n\n or index_parser.css('RC-meetingItem')\n\n or\n index_parser.css('rp-meetingItem')\n\n or index_parser.css('RC-courseCards')\n\n for meeting in meetings:\n # Broaden a tag  
selectors to catch new Racing Post structures\n\n for link in meeting.css('a[data-test-selector=\"RC-meetingItem_link_race\"]',\n a.rp-raceCourse_panel_race_time, a.rp-meetingItem_race_time, a.RC-meetingItem_race_time, a.RC-meetingItem_link,\n a[href*=\"/racecards/\"]):\n href = link.attributes.get('href', \"\")\n\n if not href or \"/results/\" in href:\n continue\n\n txt = clean_text(node_text(link))\n\n time_match = re.search(r'(\d{1,2}):(\d{2})', txt)\n\n if time_match:\n try:\n time_str = time_match.group(1)\n\n tm = datetime.strptime(time_str, \"%H:%M\")\n\n if tm.hour < 9:\n tm = tm.replace(hour=tm.hour\n + 12)\n\n rt = tm.replace(\n year=target_date.year, month=target_date.month, day=target_date.day, tzinfo=site_tz)\n\n diff =\n (rt - now_site).total_seconds() / 60\n\n if not (-45 < diff <= 1080):\n continue\n\n except Exception: pass\n\n race_card_urls.append(href)\n\n elif intl_response:\n self.logger.warning(\"Unexpected status\", \n status=intl_response.status, \n url=intl_response.url)\n\n if not race_card_urls:\n self.logger.warning(\"Standard RacingPost link discovery failed, trying aggressive  
fallback\", \n date=date)\n\n if intl_response and intl_response.text:\n index_parser = HTMLParser(intl_response.text)\n\n for a\n in index_parser.css('a[href*=\"/racecards/\"]'):\n href = a.attributes.get('href', \"\")\n\n if\n re.search(r'(\d{1,2}):(\d{2})', href):\n race_card_urls.append(href)\n\n if intl_response and\n intl_response.text:\n intl_parser = HTMLParser(intl_response.text)\n\n for a in intl_parser.css('a[href*=\"/racecards/\"]'):\n href = a.attributes.get('href', \"\")\n\n if re.search(r'(\d{1,2}):(\d{2})', href):\n href =\n a.attributes.get('href', \"\")\n\n if re.search(r'(\d{1,2}):(\d{2})', href):\n href =\n race_card_urls.append(href)\n\n if not race_card_urls:\n self.logger.warning(\"Failed to fetch RacingPost racecard links\", \n date=date)\n\n return None\n\n\n async def fetch_single_html(url: str):\n\n response = await self.make_request(\"GET\", url, \n headers=self._get_headers())\n\n return response.text if response else \"\"\n\n tasks = [fetch_single_html(url) for url in
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race_card_urls"]\n html_contents: await asyncio.gather(*tasks)\n return {"date": date, "html_contents":\n\ndef _parse_races(self, raw_data: Any) -> List[Race]:\n    "\n    "\n    Parses a list of raw HTML strings into Race objects.\n    "\n    "\n    if not raw_data or not raw_data.get("html_contents"):\n        return []\n    date = raw_data["date"]\n    html_contents = raw_data["html_contents"]\n    all_races: List[Race] = []\n    for html in html_contents:\n        if not html:\n            continue\n        try:\n            parser = HTMLParser(html)\n            venue_node = parser.css_first('a[data-test-selector="RC-course_name"]')\n            if not venue_node:\n                continue\n            venue_raw = venue_node.text(strip=True)\n            venue = normalize_venue_name(venue_raw)\n            race_time_node = parser.css_first('span[data-test-selector="RC-course_time"]')\n            if not race_time_node:\n                continue\n            race_time_str = race_time_node.text(strip=True)\n            race_datetime_str = f"{date} {race_time_str}"\n            start_time = datetime.strptime(race_datetime_str, "%Y-%m-%d %H:%M")\n            runners = self._parse_runners(parser)\n            if venue and runners:\n                race_number = self._get_race_number(parser, start_time)\n                race = Race(id=f"rp_{venue.lower().replace(' ', '')}_{date}_{race_number}", venue=venue, race_number=race_number, start_time=start_time, runners=runners, source=self.source_name)\n                all_races.append(race)\n            except (AttributeError, ValueError):\n                self.logger.error("Failed to parse RacingPost race from HTML content.")\n            exc_info=True)\n            continue\n        return all_races\n    def _get_race_number(self, parser: HTMLParser, start_time: datetime) -> int:\n        "\n        "\n        Derives the race number by finding the active time in the nav bar.\n        "\n        "\n        time_str_to_find = start_time.strftime("%H:%M")\n        time_links = parser.css('a[data-test-selector="RC-raceTime"]')\n        for i, link in enumerate(time_links):\n            if link.text(strip=True) == time_str_to_find:\n                return i + 1\n            return 1\n        def _parse_runners(self, parser: HTMLParser) -> list[Runner]:\n            "\n            "\n            Parses all runners from a single race card page.\n            "\n            "\n            runners = []\n            runner_nodes = parser.css('div[data-test-selector="RC-runnerCard"]')\n            for node in runner_nodes:\n                if runner := self._parse_runner(node):\n                    runners.append(runner)\n            return runners\n        def _parse_runner(self, node: Node) -> Optional[Runner]:\n            try:\n                number_node = node.css_first('span[data-test-selector="RC-runnerNumber"]')\n                name_node = node.css_first('a[data-test-selector="RC-runnerName"]')\n                odds_node = node.css_first('span[data-test-selector="RC-runnerPrice"]')\n                if not all([number_node, name_node, odds_node]):\n                    return None\n                number_str = clean_text(number_node.text())\n                number = 0\n                if number_str:\n                    num_txt = "".join(filter(str.isdigit, number_str))\n                    if num_txt:\n                        val = int(num_txt)\n                        if val <= 40:\n                            number = val\n                            name = clean_text(name_node.text())\n                            odds_str = clean_text(odds_node.text())\n                            scratched = "NR"\n                            if odds_str.upper() or not odds_str:\n                                odds = {} \n                                if not scratched:\n                                    win_odds = parse_odds_to_decimal(odds_str)\n                                    if win_odds_data := create_odds_data(self.source_name, win_odds):\n                                        odds[self.source_name] = odds_data\n                                return Runner(number=number, name=name, odds=odds, scratched=scratched)\n                            except (ValueError, AttributeError):\n                                self.logger.warning("Could not parse RacingPost runner, skipping.")\n                                exc_info=True)\n                    return None\n            except Exception as e:\n                self.logger.error(f"Error parsing runner: {e}")\n            return None\n        name = "RacingPostAdapter"\n    },\n    {\n        "type": "miscellaneous",\n        "content": "\n\n",\n    },\n    {\n        "type": "class",\n        "content": "\n\nclass RacingPostToteAdapter(BrowserHeadersMixin, DebugMixin, BaseAdapterV3):\n    "\n    "\n    Adapter for fetching Tote dividends and results from Racing Post.\n    "\n    "\n    ADAPTER_TYPE = "results"\n    SOURCE_NAME = "RacingPostTote"\n    BASE_URL = "https://www.racingpost.com"\n    def __init__(self, config: Optional[Dict[str, Any]] = None):\n        super().__init__(source_name=self.SOURCE_NAME, base_url=self.BASE_URL, config=config)\n        def _configure_fetch_strategy(self) -> FetchStrategy:\n            return FetchStrategy(primary_engine=BrowserEngine.CURL_CFFI, enable_js=True, stealth_mode=StealthMode.CAMOUFLAGE, timeout=45)\n        def _get_headers(self) -> dict:\n            return self._get_browser_headers(host="www.racingpost.com")\n        async def _fetch_data(self, date: str) -> Optional[Dict[str, Any]]:\n            url = f"/results/{date}"\n            resp = await self.make_request("GET", url, headers=self._get_headers())\n            if not resp or not resp.text:\n                return None\n            self._save_debug_snapshot(resp.text, f"rp_tote_results_{date}")\n            parser = HTMLParser(resp.text)\n            # Extract links to individual race results\n            links = set()\n            selectors = [\n                'a[data-test-selector="RC-meetingItem_link_race"]',\n                'a[href="/results/"]',\n                '.ui-link-rp-raceCourse_panel_race_time',\n                'a.rp-raceCourse_panel_race_time'\n            ]\n            target_venues = getattr(self, "target_venues", None)\n            for s in selectors:\n                for a in parser.css(s):\n                    href = a.attributes.get("href")\n                    if href:\n                        # Filter by venue\n                        if target_venues:\n                            match_found = False\n                            for v in target_venues:\n                                if v in href.lower().replace("-", ""):\n                                    match_found = True\n                                    break\n                        if not match_found:\n                            v_text = get_canonical_venue(node_text(a))\n                            if v_text in target_venues:\n                                match_found = True\n                                if not match_found:\n                                    continue\n                                # Broaden regex to match various RP result link patterns (Memory Directive Fix)\n                                if re.search(r"/results/.?\\d{5}", href) or re.search(r"/results/\\d+/", href) or re.search(r"/\\d{4}-\\d{2}-\\d{2}/", href) or len(href.split("/")) >= 4:\n                                    links.add(href if href.startswith("http") else f"{self.BASE_URL}{href}")\n            async def fetch_result_page(link): \n                r = await self.make_request("GET", link, headers=self._get_headers())\n                return (link, r.text if r else "")\n            tasks = [fetch_result_page(link) for link in links]\n            pages = await asyncio.gather(*tasks)\n            return {"pages": pages, "date": date}\n        def _parse_races(self, raw_data: Any) -> List[Race]:\n            if not raw_data or not raw_data.get("pages"):\n                return []\n            races = []\n            date_str = raw_data["date"]\n            for link, html_content in raw_data["pages"]:\n                if not html_content:\n                    continue\n                try:\n                    parser = HTMLParser(html_content)\n                    race = self._parse_result_page(parser, date_str, link)\n                    if race:\n                        races.append(race)\n                except Exception as e:\n                    self.logger.warning("Failed to parse RP result page", link=link, error=str(e))\n            return races\n        def _parse_result_page(self, parser: HTMLParser, date_str: str, url: str) -> Optional[Race]:\n            venue_node = parser.css_first('a[data-test-selector="RC-course_name"]')\n            if not venue_node:\n                return None\n            venue = normalize_venue_name(venue_node.text(strip=True))\n            time_node = parser.css_first('span[data-test-selector="RC-course_time"]')\n            if not time_node:\n                return None\n            time_str = time_node.text(strip=True)\n            start_time = datetime.strptime(f"{date_str} {time_str}", "%Y-%m-%d %H:%M").replace(tzinfo=EASTERN)\n            except Exception:\n                return None\n            # Extract dividends\n            dividends = {}\n            tote_container = parser.css_first('div[data-test-selector="RC-toteReturns"]')\n            if not tote_container:\n                # Try alternate selector\n                tote_container = parser.css_first('rp-toteReturns')\n            if tote_container:\n                for row in (tote_container.css('div.rp-toteReturns_row') or tote_container.css('rp-toteReturns_row')):\n                    try:\n                        label_node = row.css_first('div.rp-toteReturns_label')\n                        val_node = row.css_first('div.rp-toteReturns_value')\n                        if label_node and val_node:\n                            label = clean_text(label_node.text())\n                            value = clean_text(val_node.text())\n                            if label and value:\n                                dividends[label] = value\n                    except Exception as e:\n                        self.logger.debug("Failed parsing RP tote row", error=str(e))\n            # Extract runners (finishers)\n            runners = []\n            for row in parser.css('div[data-test-selector="RC-resultRunner"]'):\n                name_node = row.css_first('a[data-test-selector="RC-resultRunnerName"]')\n                if not name_node:\n                    continue\n                name = clean_text(name_node.text())\n                pos_node = row.css_first('span.rp-resultRunner_position')\n                pos = clean_text(pos_node.text())\n                if pos_node else "":\n                    # Try to find saddle number\n                    number = 0\n                    num_node = row.css_first('rp-resultRunner_saddleClothNo')\n                    if num_node:\n                        try:\n                            number = int(clean_text(num_node.text()))\n                        except Exception:\n                            pass\n                    runners.append(Runner(name=name, number=number, metadata={"position": pos}))\n            # Derive race number from header or navigation\n            race_num = 1\n            # Priority 1: Navigation bar active time (most reliable on RP)\n            time_links = parser.css('a[data-test-selector="RC-raceTime"]')\n            found_in_nav = False\n            for i, link in enumerate(time_links):\n                cls = link.attributes.get("class")\n                if "active" in cls or "rp-raceTimeCourseName_time" in cls:\n                    race_num = i + 1\n                    break\n            # Priority 2: Race card header\n            race_card_urls = parser.css('a[data-test-selector="RC-raceCard"]')\n            for url in race_card_urls:\n                if "RC-raceTime" in url:\n                    race_num = int(url.split("/")[-1].split("_")[0])\n                    break\n            # Priority 3: Default to 1\n            return Race(id=f"rp_{venue}_{date}_{race_num}", venue=venue, race_number=race_num, start_time=start_time, runners=runners, source=self.source_name)\n    }\n}

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found_in_nav = True\n break\n\n if not found_in_nav:\n\n # Priority 2: Text search for \"Race X\"\n\n race_num_match =
re.search(r'Race\\s+(\\d+)', parser.text())\n\n if race_num_match:\n\n race_num = int(race_num_match.group(1))\n\n race = Race(\n
id=f\"rp_tote_{get_canonical_venue(venue)}_{date_str.replace('-', ' ')}_R{race_num}\"\\n\\n venue=venue,\\n race_number=race_num,\\n
start_time=start_time,\\n runners=runners,\\n source=self.source_name,\\n metadata={\"dividends\": dividends, \"url\": url}\\n\\n)
return race\n\",
"name\": \"RacingPostToteAdapter\"
},
{
"type\": \"miscellaneous\",
"content": \"\n# -----\\n# MASTER ORCHESTRATOR\\n#
-----\\n\\n\"
},
{
"type\": \"async_function\",
"content": \"async def run_discovery(\\n target_dates: List[str],\\n window_hours: Optional[int] = 8,\\n loaded_races:
Optional[List[Race]] = None,\\n adapter_names: Optional[List[str]] = None,\\n save_path: Optional[str] = None,\\n fetch_only:
bool = False,\\n live_dashboard: bool = False,\\n track_odds: bool = False,\\n region: Optional[str] = None,\\n config:
Optional[Dict[str, Any]] = None\\n):\\n\\n logger = structlog.get_logger(\"run_discovery\")\\n logger.info(\"Running Discovery\\n\",
dates=target_dates, window_hours=window_hours)\n\n try:\\n now = datetime.now(EASTERN)\n\n cutoff = now +
timedelta(hours=window_hours) if window_hours else None\n\n all_races_raw = []\n\n harvest_summary = {}\\n\\n # Pre-populate
harvest_summary based on region/filter for visibility\n\n target_region = region or DEFAULT_REGION\n\n target_set =
USA_DISCOVERY_ADAPTERS if target_region == \"USA\" else INT_DISCOVERY_ADAPTERS\n\n # Determine which adapters should be
visible in the harvest summary\n\n if adapter_names:\\n\n visible_adapters = [n for n in adapter_names if n in target_set]\n\n
else:\\n\n visible_adapters = list(target_set)\n\n\n for adapter_name in visible_adapters:\\n\n harvest_summary[adapter_name] =
{\"count\": 0, \"max_odds\": 0.0, \"trust_ratio\": 0.0}\n\n\n if loaded_races is not None:\\n\n logger.info(\"Using loaded races\\n\",
count=len(loaded_races))\n\n all_races_raw = loaded_races\n\n adapters = []\n\n # Ensure harvest files exist even for loaded runs
(Memory Directive Fix)\n\n try:\\n\n if not os.path.exists(\"discovery_harvest.json\"):\\n\n with open(\"discovery_harvest.json\",
\"w\") as f:\\n\n json.dump(harvest_summary, f)\n\n except Exception: pass\n\n else:\\n\n # Auto-discover discovery adapter classes\n\n
adapter_classes = get_discovery_adapter_classes()\n\n\n if adapter_names:\\n\n adapter_classes = [c for c in adapter_classes if
c.__name__ in adapter_names or getattr(c, \"SOURCE_NAME\", \"\") in adapter_names]\n\n\n # Load historical performance scores to
prioritize adapters\n\n db = FortunaDB()\n\n adapter_scores = await db.get_adapter_scores(days=30)\n\n\n # Prioritize adapters by
score (descending)\n\n adapter_classes = sorted(\\n adapter_classes,\\n key=lambda c: adapter_scores.get(getattr(c,
\"SOURCE_NAME\", c.__name__), 0),\\n reverse=True\\n )\n\n\n adapters = []\n\n for cls in adapter_classes:\\n\n try:\\n
adapters.append(cls(config={\"region\": region}))\n\n except Exception as e:\\n\n logger.error(\"Failed to initialize adapter\\n\",
adapter=cls.__name__, error=str(e))\n\n\n try:\\n\n async def fetch_one(a, date_str):\\n\n try:\\n\n races = await
a.get_races(date_str)\n\n return a.source_name, races\n\n except Exception as e:\\n\n logger.error(\"Error fetching from adapter\\n\",
adapter=a.source_name, date=date_str, error=str(e))\n\n return a.source_name, []\n\n\n fetch_tasks = []\n\n for d in target_dates:\\n
for a in adapters:\\n\n fetch_tasks.append(fetch_one(a, d))\n\n\n results = await asyncio.gather(*fetch_tasks)\n\n\n for adapter_name,
r_list in results:\\n\n all_races_raw.extend(r_list)\n\n\n # Track count and MaxOdds (Proxy for successful odds fetching)\n\n m_odds
= 0.0\n\n for r in r_list:\\n\n for run in r.runners:\\n\n if run.win_odds and run.win_odds > m_odds:\\n\n m_odds =
float(run.win_odds)\n\n\n if adapter_name not in harvest_summary:\\n\n harvest_summary[adapter_name] = {\"count\": 0, \"max_odds\":
0.0}\n\n\n harvest_summary[adapter_name][\"count\"] += len(r_list)\n\n\n if m_odds > harvest_summary[adapter_name][\"max_odds\"]:\\n
harvest_summary[adapter_name][\"max_odds\"] = m_odds\n\n\n # Find the adapter instance to extract its trust_ratio\n\n
matching_adapter = next((a for a in adapters if a.source_name == adapter_name), None)\n\n\n if matching_adapter:\\n\n
harvest_summary[adapter_name][\"trust_ratio\"] = max(\\n harvest_summary[adapter_name].get(\"trust_ratio\", 0.0),\\n
getattr(matching_adapter, \"trust_ratio\", 0.0))\n\n\n\n logger.info(\"Fetched total races\\n\", count=len(all_races_raw))\n\n
finally:\\n\n # Save discovery harvest summary for GHA reporting and DB persistence\n\n try:\\n\n # Only create if it doesn't exist or
we have data\n\n if harvest_summary or not os.path.exists(\"discovery_harvest.json\"):\\n\n with open(\"discovery_harvest.json\",
\"w\") as f:\\n\n json.dump(harvest_summary, f)\n\n\n if harvest_summary:\\n\n await db.log_harvest(harvest_summary, region=region)\n\n
except Exception: pass\n\n\n # Shutdown adapters\n\n for a in adapters:\\n\n try: await a.close()\n\n except Exception: pass\n\n\n #
Apply time window filter if requested to avoid overloading\n\n # Initial time window filtering removed to ensure all unique
races are tracked for reporting\n\n\n if not all_races_raw:\\n\n logger.error(\"No races fetched from any adapter. Discovery
aborted.\")\n\n\n if save_path:\\n\n try:\\n\n with open(save_path, \"w\") as f:\\n\n json.dump([], f)\n\n logger.info(\"Saved empty race
list to file\\n\", path=save_path)\n\n except Exception as e:\\n\n logger.error(\"Failed to save empty race list\\n\", error=str(e))\n\n
return\n\n\n # Deduplicate\n\n race_map = {}\\n\n\n for race in all_races_raw:\\n\n canonical_venue = get_canonical_venue(race.venue)\n\n\n
# Use Canonical Venue + Race Number + Date + Discipline as stable key\n\n st = race.start_time\n\n if isinstance(st, str):\\n\n try:\\n
st = datetime.fromisoformat(st.replace('Z', '+00:00'))\n\n except (ValueError, TypeError):\\n\n pass\n\n\n date_str =
st.strftime('%Y%m%d') if hasattr(st, 'strftime') else \"Unknown\"\n\n\n # Removing discipline from key to allow better merging
across adapters\n\n key = f\"{canonical_venue}|{race.race_number}|{date_str}\"\\n\n\n if key not in race_map:\\n\n race_map[key] =
race\n\n else:\\n\n existing = race_map[key]\n\n\n # Merge runners/odds\n\n for nr in race.runners:\\n\n # Match by number OR name (if
numbers are missing)\n\n er = next((r for r in existing.runners if (r.number != 0 and r.number == nr.number) or (r.name.lower()
== nr.name.lower()), None)\n\n if er:\\n\n er.odds.update(nr.odds)\n\n if not er.win_odds and nr.win_odds and nr.win_odds
< er.win_odds:\\n\n er.win_odds = nr.win_odds\n\n\n if not er.number and nr.number:\\n\n er.number = nr.number\n\n else:\\n\n
existing.runners.append(nr)\n\n\n\n # Update
source\n\n sources = set((existing.source or \"\").split(\" \", \"\"))\n\n sources.add(race.source or \"Unknown\")\n\n\n existing.source =
\" \", \"\".join(sorted(list(filter(None, sources))))\n\n\n unique_races = list(race_map.values())\n\n logger.info(\"Unique races
identified\\n\", count=len(unique_races))\n\n\n # GPT5 Improvement: Keep all races within window for analysis, not just one per
track.\n\n\n # Window broadened to 18 hours to match grid cutoff (News Mode)\n\n timing_window_races = []\n\n now =
datetime.now(EASTERN)\n\n for race in unique_races:\\n\n st = race.start_time\n\n if isinstance(st, str):\\n\n try:\\n\n st =
datetime.fromisoformat(st.replace('Z', '+00:00'))\n\n except (ValueError, TypeError):\\n\n continue\n\n if st.tzinfo is None:\\n\n st =
st.replace(tzinfo=EASTERN)\n\n\n\n # Calculate Minutes to Post\n\n diff = st - now\n\n mtp = diff.total_seconds() / 60\n\n\n # Broaden
window to 18 hours to ensure yield for \"News\"\n\n if -45 < mtp < 1080: # 18 hours = 1080 mins\n\n timing_window_races.append(race)\n\n\n if mtp
<= 45:\\n\n logger.info(f\" \ud83d\udcb0 Found Gold Candidate: {race.venue}\n\n R{race.race_number} ({mtp:.1f} MTP)\\n\")\n\n else:\\n\n logger.debug(f\" \ud83d\udc2d Found Upcoming Candidate: {race.venue}\n\n R{race.race_number} ({mtp:.1f} MTP)\\n\")\n\n\n golden_zone_races = timing_window_races\n\n if not golden_zone_races:\\n
logger.warning(\" \ud83d\udc2d No races found in the broadened window (-45m to 18h).\\n\")\n\n\n logger.info(\"Total unique races
available for analysis\\n\", count=len(unique_races))\n\n\n # Save raw fetched/merged races if requested (Save EVERYTHING unique)\n\n
if save_path:\\n\n try:\\n\n with open(save_path, \"w\") as f:\\n\n json.dump([r.model_dump(mode='json') for r in unique_races], f,
indent=4)\n\n logger.info(\"Saved all unique races to file\\n\", path=save_path)\n\n except Exception as e:\\n\n logger.error(\"Failed
to save races\\n\", error=str(e))\n\n\n if fetch_only:\\n\n logger.info(\"Fetch-only mode active. Skipping analysis and
reporting.\")\n\n\n return\n\n\n # Analyze ALL unique races to ensure Grid is populated with Top 5 info (News Mode)\n\n analyzer =
SimplySuccessAnalyzer(config=config)\n\n result = analyzer.qualify_races(unique_races)\n\n qualified = result.get(\"races\\n\",
[])\n\n\n # Generate Grid & Goldmine (Grid uses unique_races for the broader context)\n\n grid = generate_summary_grid(qualified,
all_races=unique_races)\n\n logger.info(\"Summary Grid Generated\\n\")\n\n\n # Generate Field Matrix for all unique races\n\n
field_matrix = generate_field_matrix(unique_races)\n\n logger.info(\"Field Matrix Generated\\n\")\n\n\n # Log Hot Tips & Fetch recent
historical results for the report\n\n tracker = HotTipsTracker()\n\n await tracker.log_tips(qualified)\n\n\n historical_goldmines =

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await tracker.db.get_recent_audited_goldmines(limit=15)\n historical_report =
generate_historical_goldmine_report(historical_goldmines)\n\n gm_report = generate_goldmine_report(qualified,
all_races=unique_races)\n if historical_report:\n gm_report += "\n\n" + historical_report\n\n # NEW: Dashboard and Live
Tracking\n goldmines = [r for r in qualified if get_field(r, 'metadata', {})].get('is_goldmine')]\n\n # Calculate today's stats
for dashboard\n recent_tips = await tracker.db.get_recent_tips(limit=100)\n today_str =
datetime.now(EASTERN).strftime("%Y-%m-%d")\n today_tips = [t for t in recent_tips if t.get("report_date",
"\n").startswith(today_str)]\n\n cashed = sum(1 for t in today_tips if t.get("verdict") == "CASHED")\n total_tips =
len(today_tips)\n profit = sum((t.get("net_profit") or 0.0) for t in today_tips)\n\n stats = {\n "tips": total_tips,\n
"cached": cashed,\n "profit": profit}\n\n # Generate friendly HTML report\n try:\n html_content = await
generate_friendly_html_report(qualified, stats)\n html_path = Path("fortuna_report.html")\n
html_path.write_text(html_content, encoding="utf-8")\n logger.info("Friendly HTML report generated"),
path=str(html_path))\n\n # Launch the report if running as a portable app (not in GHA)\n if not
os.getenv("GITHUB_ACTIONS"):\n try:\n # Use absolute path for reliable opening\n abs_path = html_path.absolute()\n if
sys.platform == "win32":\n os.startfile(abs_path)\n else:\n webbrowser.open(f"file://{abs_path}")\n except Exception as
e:\n logger.warning("Failed to automatically launch report", error=str(e))\n except Exception as e:\n logger.error("Failed
to generate HTML report", error=str(e))\n\n if live_dashboard:\n try:\n from rich.live import Live\n from rich.console import
Console\n # Check if our custom dashboard exists\n try:\n from dashboard import FortunaDashboard\n dash = FortunaDashboard()\n
dash.update(goldmines, stats)\n\n # Start odds tracker if requested\n if track_odds:\n try:\n from odds_tracker import
LiveOddsTracker\n adapter_classes = get_discovery_adapter_classes()\n odds_tracker = LiveOddsTracker(goldmines,
adapter_classes)\n asyncio.create_task(odds_tracker.start_tracking())\n except ImportError:\n logger.warning("LiveOddsTracker
not available")\n\n await dash.run_live()\n except (ImportError, Exception) as e:\n logger.warning("Rich dashboard
component missing or failed: {e}")\n\n # Fallback to simple rich display if possible\n console = Console()\n
console.print("\n\n" + grid + "\n\n")\n except ImportError:\n logger.warning("Rich library not available, falling back to
static display")\n\n print("\n\n" + grid + "\n\n")\n else:\n # Fallback to static print\n try:\n from dashboard import
print_dashboard\n print_dashboard(goldmines, stats)\n except Exception as e:\n # Silently fallback to standard print if
dashboard fails\n pass\n\n print("\n\n" + grid + "\n\n")\n\n if historical_report:\n print("\n\n" + historical_report +
"\n\n")\n\n # Always save reports to files (GPT5 Improvement: Defensive guards)\n try:\n with open("summary_grid.txt",
"w", encoding="utf-8") as f: f.write(grid)\n\n with open("field_matrix.txt", "w", encoding="utf-8") as f:
f.write(field_matrix)\n\n with open("goldmine_report.txt", "w", encoding="utf-8") as f: f.write(gm_report)\n\n except
Exception as e:\n logger.error("failed_saving_text_reports", error=str(e))\n\n # Save qualified races to JSON\n report_data
= {\n "races": [r.model_dump(mode='json') for r in qualified],\n "analysis_metadata": result.get("criteria", {}),\n
"timestamp": datetime.now(EASTERN).isoformat(),\n }\n\n try:\n with open("qualified_races.json", "w", encoding="utf-8") as
f:\n json.dump(report_data, f, indent=4)\n\n except Exception as e:\n logger.error("failed_saving_qualified_races",
error=str(e))\n\n # NEW: Write GHA Job Summary\n if 'GITHUB_STEP_SUMMARY' in os.environ:\n try:\n predictions_md =
format_predictions_section(qualified)\n\n # We need a db instance for format_proof_section\n proof_md = await
format_proof_section(tracker.db)\n harvest_md = build_harvest_table(harvest_summary, "\ud83d\ude0f Discovery Harvest
Performance")\n artifacts_md = format_artifact_links()\n write_job_summary(predictions_md, harvest_md, proof_md,
artifacts_md)\n\n logger.info("GHA Job Summary written")\n\n except Exception as e:\n logger.error("Failed to write GHA
summary", error=str(e))\n\n finally:\n await GlobalResourceManager.cleanup()\n\n
"name": "run_discovery"
},
{
"type": "async_function",
"content": "async def start_desktop_app():\n\n \"\"\"Starts a FastAPI server and opens a webview window for the Fortuna
Dashboard.\"\"\"\n\n try:\n import uvicorn\n from fastapi import FastAPI\n from fastapi.responses import HTMLResponse\n import
webview\n\n import threading\n import time\n\n except ImportError as e:\n print(f"GUI dependencies missing: {e}. Install with
'pip install fastapi uvicorn pywebview'")\n\n return\n\n app = FastAPI(title="Fortuna Desktop Intelligence")\n\n
@app.get("/", response_class=HTMLResponse)\n async def get_dashboard():\n\n # Retrieve latest Goldmines from the database\n db
= FortunaDB()\n\n try:\n async with db.get_connection() as conn:\n try:\n async with conn.execute("SELECT venue,
race_number, selection_number, predicted_2nd_fav_odds, start_time\n\n FROM tips ORDER BY id DESC LIMIT 50\n\n ) as
cursor:\n tips = await cursor.fetchall()\n\n except Exception as e:\n print(f"DB query failed: {e}")\n\n tips = []\n\n except
Exception as e:\n print(f"Failed to connect to database: {e}")\n\n tips = []\n\n tips_html = "\n".join([f"<tr><td>{t[4]}</td><td>{t[0]}</td><td>R{t[1]}</td><td>#{t[2]}</td><td>{t[3]}</td></tr>\n\n for t in tips\n ])\n\n return
f"<html>\n\n <head>\n\n <title>Fortuna Intelligence Desktop</title>\n\n <style>\n\n body {{ font-family: 'Segoe UI',
Tahoma, Geneva, Verdana, sans-serif; background: #0f172a; color: #f8fafc; padding: 30px; }}\n\n .container {{ max-width: 1200px; margin:
auto; }}\n\n h1 {{ color: #fbbf24; border-bottom: 2px solid #fbbf24; padding-bottom: 10px; text-transform: uppercase;
letter-spacing: 2px; }}\n\n table {{ width: 100%; border-collapse: collapse; margin-top: 20px; background: #1e293b;
border-radius: 8px; overflow: hidden; }}\n\n th, td {{ padding: 15px; text-align: left; border-bottom: 1px solid #334155; }}\n\n
th {{ background: #334155; color: #fbbf24; }}\n\n tr: hover {{ background: #475569; }}\n\n .footer {{ margin-top: 30px; font-size:
0.8em; color: #94a3b8; text-align: center; }}\n\n .btn {{ display: inline-block; background: #fbbf24; color: #0f172a; padding:
10px 20px; border-radius: 5px; text-decoration: none; font-weight: bold; margin-bottom: 20px; }}\n\n </style>\n\n <script>\n
setInterval(() => {{ location.reload(); }}, 30000);\n\n </script>\n\n <body>\n\n <div class="container">\n\n <h1>Fortuna
Intelligence Dashboard</h1>\n\n <p>Monitoring global racing markets for Goldmine opportunities...</p>\n\n <a href="/"
class="btn">REFRESH NOW</a>\n\n <table>\n\n <thead>\n\n <tr><th>Time
Discovered</th><th>Venue</th><th>Race</th><th>Selection</th><th>Odds</th></tr>\n\n </thead>\n\n <tbody>\n\n {tips_html or "<tr><td
colspan='5'>No opportunities found yet. Run discovery to populate the database.</td></tr>"}\n\n </tbody>\n\n </table>\n\n <div
class="footer">Fortuna Intelligence Monolith - Sci-Fi Future Edition - Auto-refreshing every 30s</div>\n\n </div>\n\n </body>\n\n
</html>\n\n \"\"\"\n\n\n def run_server():\n\n uvicorn.run(app, host="127.0.0.1", port=8013, log_level="error")\n\n\n # Start
FastAPI in a background thread\n server_thread = threading.Thread(target=run_server, daemon=True)\n\n server_thread.start()\n\n\n # Wait a moment for server to initialize\n time.sleep(2.0)\n\n\n # Create and start the webview window if server is up\n if
server_thread.is_alive():\n\n print("Launching Fortuna Desktop Window...")\n\n webview.create_window('Fortuna Intelligence
Desktop', 'http://127.0.0.1:8013', width=1300, height=900)\n\n webview.start()\n\n else:\n\n print("\u26a0\ufe0f Error: GUI Server
failed to start.")\n\n
"name": "start_desktop_app"
},
{
"type": "miscellaneous",
"content": "\n"
},
{
"type": "async_function",
"content": "async def ensure_browsers():\n\n \"\"\"Ensure browser dependencies are available for scraping.\"\"\"\n\n\n # Skip
Playwright in frozen apps if binary doesn't exist - use HTTP-only adapters\n if is_frozen():\n\n playwright_path =
os.path.expanduser("~/\\AppData\\Local\\ms-playwright")\n\n if not os.path.exists(playwright_path) and platform.system()
== 'Windows':\n\n structlog.get_logger().info("Running as frozen app - Playwright disabled (binary not found)")\n\n return

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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("\nPlaywright launch failed during verification", error=str(e))\n if is_frozen():\n
structlog.get_logger().info("\nFrozen app: Playwright launch failed, using HTTP-only fallbacks")\n return True\n except
ImportError:\n structlog.get_logger().debug("\nPlaywright not imported")\n if is_frozen(): return True\n\n if is_frozen():\n
return True\n\n structlog.get_logger().info("\nInstalling 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",
"\ninstall", "\nplaywright==1.49.1"], check=True, capture_output=True, text=True)\n subprocess.run([sys.executable, "-m",
"\nplaywright", "\ninstall", "\nchromium"], check=True, capture_output=True, text=True)\n
structlog.get_logger().info("\nBrowser dependencies installed successfully.")\n return True\n except
subprocess.CalledProcessError as e:\n structlog.get_logger().error("\n\nFailed to install browsers",\n 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("\nUnexpected error installing browsers", error=str(e))\n return False\n",
"name": "ensure_browsers"
},
{
"type": "miscellaneous",
"content": "\n"
},
{
"type": "async_function",
"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 )\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("\nmain")\n parser = argparse.ArgumentParser(description="\nFortuna All-In-One -
Professional Racing Intelligence")\n parser.add_argument("\n--date", type=str, help="\nTarget date (YYYY-MM-DD)")\n
parser.add_argument("\n--hours", type=int, default=8, help="\nDiscovery time window in hours (default: 8)")\n
parser.add_argument("\n--monitor", action="\nstore_true", help="\nRun in monitor mode")\n parser.add_argument("\n--once",
action="\nstore_true", help="\nRun monitor once")\n parser.add_argument("\n--region", type=str, choices=[\n"USA", "\nINT",
"\nGLOBAL"], help="\nFilter by region (USA, INT or GLOBAL)")\n parser.add_argument("\n--include", type=str,
help="\nComma-separated adapter names to include")\n parser.add_argument("\n--save", type=str, help="\nSave races to JSON
file")\n parser.add_argument("\n--load", type=str, help="\nLoad races from JSON file(s), comma-separated")\n
parser.add_argument("\n--fetch-only", action="\nstore_true", help="\nOnly fetch and save data, skip analysis and reporting")\n
parser.add_argument("\n--db-path", type=str, help="\nPath to tip history database")\n parser.add_argument("\n--clear-db",
action="\nstore_true", help="\nClear all tips from the database and exit")\n parser.add_argument("\n--gui",
action="\nstore_true", help="\nStart the Fortuna Desktop GUI")\n parser.add_argument("\n--live-dashboard",
action="\nstore_true", help="\nShow live updating terminal dashboard")\n parser.add_argument("\n--track-odds",
action="\nstore_true", help="\nMonitor live odds and send notifications")\n parser.add_argument("\n--status",
action="\nstore_true", help="\nShow application status card and latest metrics")\n parser.add_argument("\n--show-log",
action="\nstore_true", help="\nPrint recent fetch/audit highlights")\n parser.add_argument("\n--quick-help",
action="\nstore_true", help="\nShow friendly onboarding guide")\n parser.add_argument("\n--open-dashboard",
action="\nstore_true", help="\nOpen the HTML intelligence report in browser")\n\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\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\n if args.clear_db:\n db = FortunaDB()\n await db.clear_all_tips()\n
await db.close()\n print("\nDatabase cleared successfully.")\n return\n\n\n adapter_filter = [n.strip() for n in
args.include.split(",")] if args.include else None\n\n # Use default region if not specified\n if not args.region:\n
args.region = config.get("\nregion", {}).get("\ndefault", DEFAULT_REGION)\n\n structlog.get_logger().info("\nUsing default
region", region=args.region)\n\n # Region-based adapter filtering\n if args.region:\n if args.region == "\nUSA":\n target_set
= USA_DISCOVERY_ADAPTERS\n elif args.region == "\nINT":\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\n else:\n
adapter_filter = list(target_set)\n\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\n # Actually, I
updated TwinSpiresAdapter to check self.config.get("\nregion").\n\n # I need to ensure the adapter gets this config.\n\n
loaded_races = None\n if args.load:\n loaded_races = []\n\n for path in args.load.split(","):\n path = path.strip()\n\n if not
os.path.exists(path):\n print(f"\nWarning: File not found: {path}")\n\n logger.warning("\nRace data file not found",
path=path)\n\n continue\n try:\n with open(path, "r") as f:\n data = json.load(f)\n\n loaded_races.extend([Race.model_validate(r) for r in data])\n\n except Exception as e:\n print(f"\nError loading {path}: {e}")\n\n
logger.error("\nFailed to load race data", path=path, error=str(e), exc_info=True)\n\n\n if args.date:\n target_dates =
[args.date]\n\n else:\n now = datetime.now(EASTERN)\n future = now + timedelta(hours=args.hours)\n\n target_dates =
[now.strftime("%Y-%m-%d")]\n\n if future.date() > now.date():\n target_dates.append(future.strftime("%Y-%m-%d"))\n\n\n if
args.monitor:\n await ensure_browsers()\n\n monitor = FavoriteToPlaceMonitor(target_dates=target_dates)\n\n # Pass region config
to monitor\n\n monitor.config["region"] = args.region\n\n if args.once:\n await monitor.run_once(loaded_races=loaded_races,
adapter_names=adapter_filter)\n\n if config.get("\nui", {}).get("\nauto_open_report", True) and not
os.getenv("\nGITHUB_ACTIONS"):\n open_report_in_browser()\n\n else:\n await monitor.run_continuous() # Continuous mode doesn't
support load/filter yet for simplicity\n\n else:\n await ensure_browsers()\n\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\n # Post-run UI enhancements (Council of Superbrains Directive)\n\n if
config.get("\nui", {}).get("\nauto_open_report", True) and not os.getenv("\nGITHUB_ACTIONS"):\n open_report_in_browser()\n",
"name": "main_all_in_one"
},
{
"type": "miscellaneous",
"content": "\n"
},
{
"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

```

```
ProactorEventLoopPolicy for subprocess support (Playwright requirement)\n # This is also set at the top of the file for frozen  
EXEs.\n asyncio.set_event_loop_policy(asyncio.WindowsProactorEventLoopPolicy())\n except AttributeError:\n # Fallback if  
Proactor is not available (should be rare on modern Windows)\n try:\n asyncio.set_event_loop_policy(asyncio.WindowsSelectorEventLoopPolicy())\n except AttributeError:\n pass\n\n try:\n asyncio.run(main_all_in_one())\n except KeyboardInterrupt:\n pass\n"
```