

■ Software Development Naming Conventions Cheat Sheet

■ Use this as a quick reference for consistent naming across files, directories, code, APIs, and databases.

Case Styles

- `camelCase` → myVariableName → JS/TS variables, functions, JSON keys
- `PascalCase` → MyClassName → Classes, Components, Interfaces
- `snake_case` → my_function_name → Python/Ruby variables, file names
- `kebab-case` → my-component-name → Directory names, URLs, CSS classes
- `SCREAMING_SNAKE_CASE` → MAX_BUFFER_SIZE → Constants, env vars

Directory Names

- `kebab-case` → user-profile/ → Common in web/frontend projects
- `snake_case` → data_processing/ → Common in Python projects
- lowercase → config/, tests/ → Always avoid spaces or caps

File Names

- Python modules: snake_case → data_loader.py
- JS/TS: camelCase or kebab-case → authService.js, user-service.ts
- React/Vue components: PascalCase → UserCard.jsx
- Config files: lowercase → docker-compose.yml, .env
- Test files: mirror source + .test/.spec → userService.test.js, test_api.py

Variables & Functions

- camelCase → getUserName() → JavaScript, Java, Go, C#, TS
- snake_case → load_user_data() → Python, Ruby
- SCREAMING_SNAKE_CASE → DEFAULT_TIMEOUT → Constants, env vars

Classes, Types, Interfaces

- Classes → PascalCase → UserManager
- Interfaces/Types → PascalCase → UserDTO, IUserRepo
- Enum members → UPPERCASE → PENDING, DELIVERED

API Naming

- Endpoints → kebab-case, plural → /users, /job-templates
- Query params → camelCase or snake_case → ?userId=123, ?user_id=123
- JSON fields → camelCase or snake_case → { userName: Bob } or { user_name: Bob }
- GraphQL → PascalCase types, camelCase fields → type User { firstName }

Databases

- Tables → snake_case, plural → users, order_items
- Columns → snake_case → created_at, user_id
- Primary keys → id or _id → user_id, order_id
- Foreign keys → _id → customer_id, product_id

Testing

- Directories → tests/, __tests__/
 - Files → snake_case or .test/.spec → login.test.js, test_math.py

Other Conventions

- Git branches → kebab-case → feature/add-login, bugfix/payment-error
- Feature flags → snake_case or camelCase → use_new_checkout, enableBetaMode
- CSS classes → kebab-case → .user-card, .btn-primary

Quick Summary

- Directories → kebab-case / snake_case
- Files → snake_case / PascalCase / kebab-case
- Variables → camelCase / snake_case
- Constants → SCREAMING_SNAKE_CASE
- Functions → camelCase / snake_case
- Classes → PascalCase
- APIs → kebab-case (plural)
- JSON fields → camelCase / snake_case
- DB tables/columns → snake_case