

@mostajs/weather — Plan de tests

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1. Tests unitaires (sans API, sans reseau)

T1 — Conditions et flyability

- ☐ `msToKmh(0) === 0`
- ☐ `msToKmh(1) === 4` (3.6 arrondi)
- ☐ `msToKmh(6.94) === 25`
- ☐ `msToKmh(10) === 36`
- ☐ `isFlyable(15, 'Clear') === true`
- ☐ `isFlyable(26, 'Clear') === false` (> 25 km/h)
- ☐ `isFlyable(15, 'Rain') === false` (forbidden)
- ☐ `isFlyable(15, 'Thunderstorm') === false`
- ☐ `isFlyable(15, 'Snow') === false`
- ☐ `isFlyable(15, 'Clouds') === true`
- ☐ `isFlyable(15, 'Clear', { maxWindKmh: 10, minVisibilityKm: 3, forbiddenConditions: [] }) === false` (custom criteria)
- ☐ `getConditionIcon('Clear') === emoji soleil`
- ☐ `getConditionIcon('Unknown') === emoji par default`

T2 — Mock data

- ☐ `getMockWeather({ location: { lat: 36.75, lon: 3.06, label: 'Alger' } })` → `WeatherData`
- ☐ `isRealData === false`
- ☐ `forecast.length === 5`
- ☐ Location label utilise dans `location`
- ☐ Contient au moins 1 alerte (demo mode)

T3 — Default criteria

- ☐ `DEFAULT_CRITERIA.maxWindKmh === 25`
 - ☐ `DEFAULT_CRITERIA.minVisibilityKm === 3`
 - ☐ `DEFAULT_CRITERIA.forbiddenConditions` contient Rain, Thunderstorm, Snow
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2. Tests API (avec cle OpenWeatherMap)

T4 — Fetch weather reel

- ☐ `fetchWeather({ apiKey: OPENWEATHER_KEY, location: { lat: 48.85, lon: 2.35, label: 'Paris' } })` → WeatherData
- ☐ `isRealData === true`
- ☐ `current.temp` est un nombre
- ☐ `current.wind` est un nombre ≥ 0
- ☐ `forecast.length \geq 3`
- ☐ Chaque forecast a un champ `flyable` boolean

T5 — Demo mode (pas de cle)

- ☐ `fetchWeather({ location: { lat: 48.85, lon: 2.35 } })` → WeatherData
 - ☐ `isRealData === false`
 - ☐ Retourne les memes donnees que getMockWeather
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3. Matrice de couverture

Test	Type	Script
T1 Conditions	Unitaire	test-unit.sh
T2 Mock data	Unitaire	test-unit.sh
T3 Default criteria	Unitaire	test-unit.sh
T4 API réelle	Integration	test-api.sh (necessite OPENWEATHER_KEY)
T5 Demo mode	Unitaire	test-unit.sh