

# 1 Code Block Test

## 1.1 Python Example

```
def calculate_metrics(data: list[dict]) -> dict:
    """Calculate key metrics from data."""
    total = sum(item["value"] for item in data)
    average = total / len(data) if data else 0

    return {
        "total": total,
        "average": average,
        "count": len(data)
    }
```

## 1.2 TypeScript Example

```
interface User {
    id: string;
    name: string;
    email: string;
}

async function fetchUser(id: string): Promise<User> {
    const response = await fetch(`api/users/${id}`);
    return response.json();
}
```

## 1.3 Bash Example

```
# Deploy to production
npm run build && npm run test
git push origin main
```