

# Advanced Angular Cheat Sheet

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## 1. Lifecycle Hooks

- `ngOnInit()` - Initialize the component
- `ngOnChanges()` - Respond to input changes
- `ngOnDestroy()` - Cleanup before component is destroyed

## 2. Change Detection

- Default Strategy - Checks all components
- OnPush Strategy - Check only when input changes

## 3. Content Projection

- `<ng-content>` - Project content into components
- Multi-slot projection using `select` attribute

## 4. State Management

- NgRx - Reactive state management for Angular
- Store Selectors - Select slices of state
- Store Effects - Handle side effects

## 5. Lazy Loading

- Lazy load modules using `loadChildren`
- Preloading Strategy - Preload modules in the background

## 6. Advanced Forms

- `FormArray` - Manage dynamic forms
- Custom Validators - Create custom validation logic

## 7. HTTP Interceptors

- Intercept HTTP requests and responses
- Modify headers or handle errors globally

## 8. Animations

- Define animations using `@Component` metadata
- Use states and transitions for complex animations

