

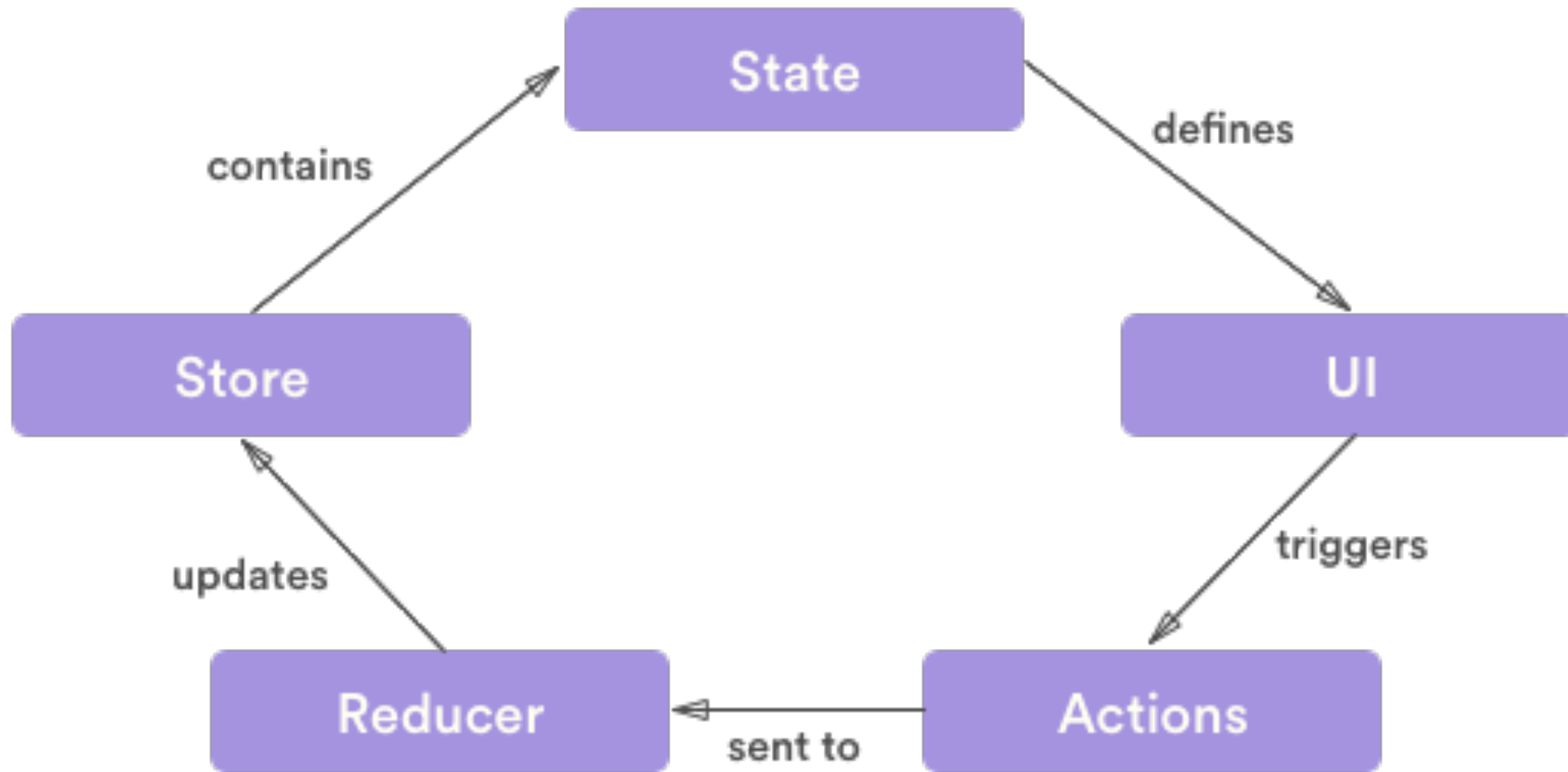
REDUX MIDDLEWARE

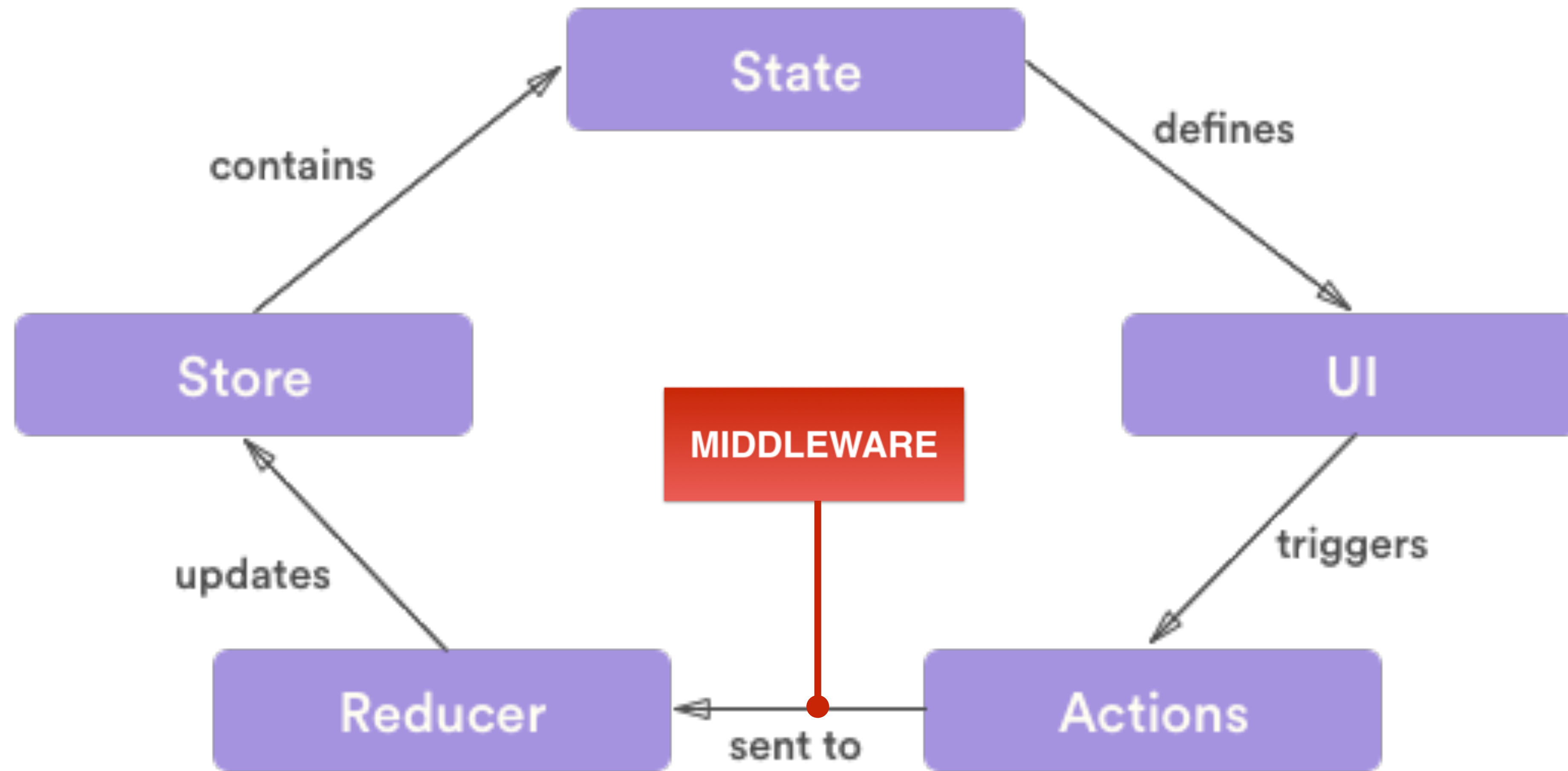
Two ducks in front of a duck, two ducks behind a duck and a duck in the middle...

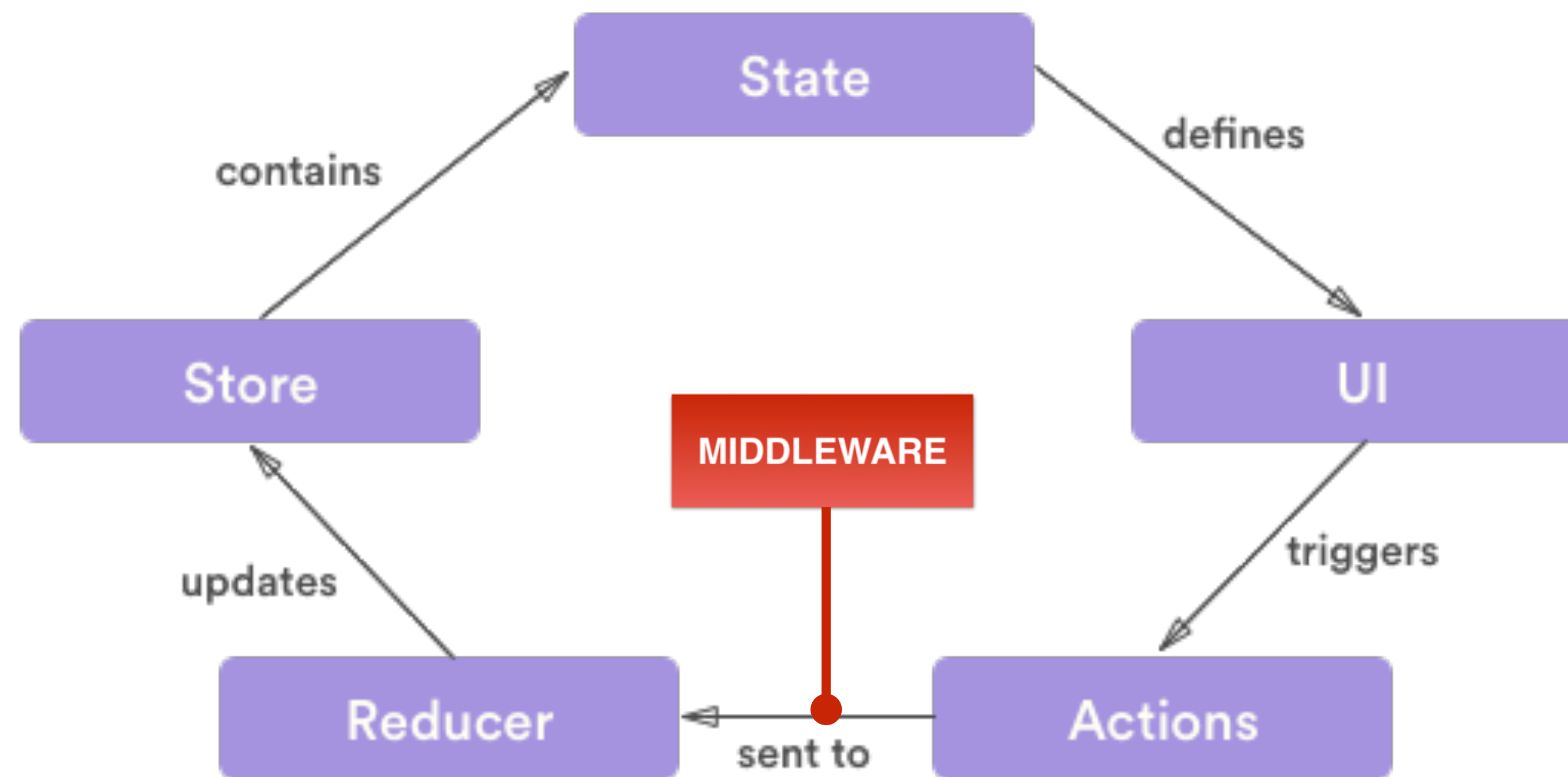
What is a middleware?

WHAT IS A MIDDLEWARE

- **Provides an extension point.**
- **Middleware code runs between the action being dispatched and reaching the reducer**
- **Useful for logging, crash reporting, talking to an asynchronous API, routing, and more.**



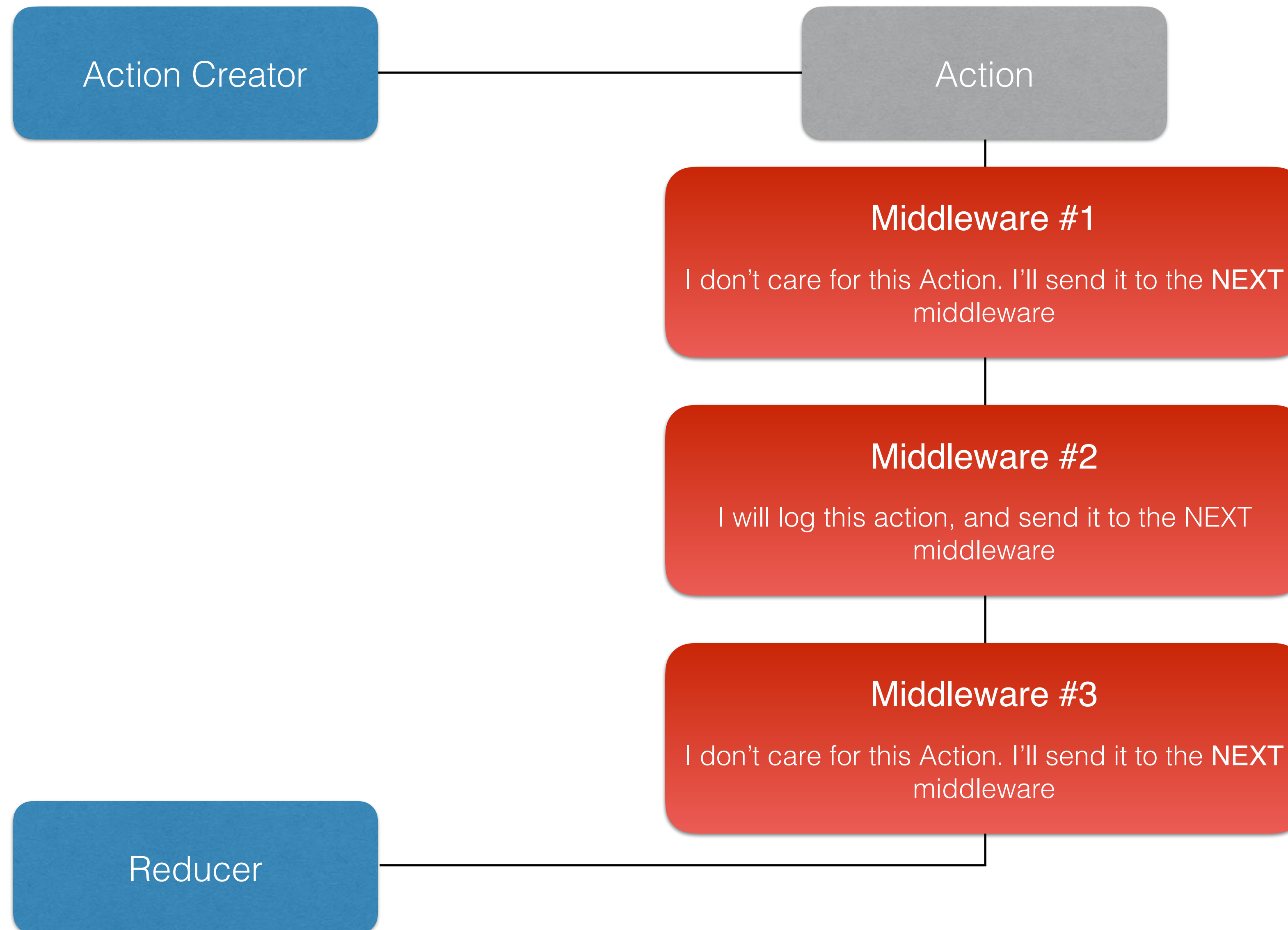




- The Middleware receives the action and can do whatever it wants with it, including modifying or even stopping it.

MIDDLEWARE BENEFITS

- **Middlewares are composable**
- **Middlewares runs independently**



MIDDLEWARE FORMAT

- A middleware is a function that receives the store
- It **MUST** return a function with arg “next”, that itself:
- Must return a function with arg “action”

```
const someMiddleware = store => next => action => {  
  // your code here  
  return next(action);  
}
```



APPLYING MIDDLEWARE

```
const store = createStore(reducer);
```



APPLYING MIDDLEWARE

```
const store = createStore(  
  reducer,  
  applyMiddleware(someMiddleware)  
);
```