Digest Loop

The digest looop answers the question

what does a controller watch?

Normal browser flow

- event fires
- JS creates an event object
- executes any and all functions listening, in order

\$digest() cycle

- processes watchers in its current scope
- and evaluates them asynchronously
- until stabilization, i.e. \$watch detects no changes
- if not stabilized within 10 cycles

```
$rootScope.myModel = 0;
$rootScope.watch('myModel', function(oldValue, newValue) {
   // execute code that updates your models
});
```

Hello World Example

1. During the compilation phase:

- the ng-model and input directive set up a keydown listener on the <input> control.
- the interpolation sets up a \$watch to be notified of name changes.

1. During the runtime phase:

- Pressing an 'X' key causes the browser to emit a keydown event on the input control.
- The input directive captures the change to the input's value and calls \$apply("name = 'X';") to update the application model inside the Angular execution context.
- Angular applies the name = 'X'; to the model.
- The \$digest loop begins
- The \$watch list detects a change on the name property and