LISTENING FOR ERRORS

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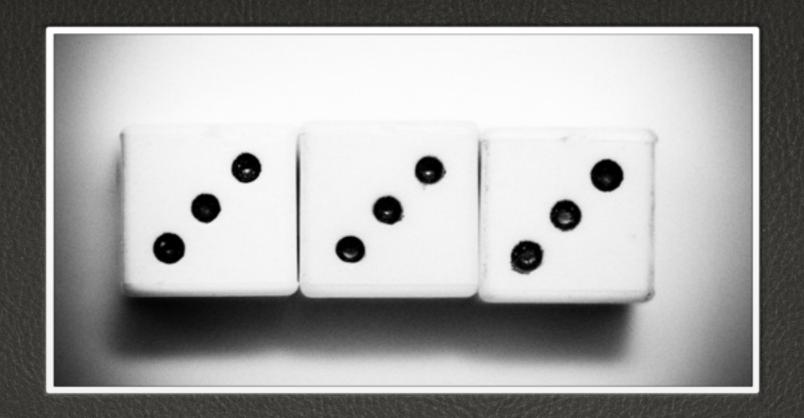


SILENCE = BLINDNESS

Fear the silence

- Has anything broken?
- Who was affected?
- What specifically failed?





3 POINTS

- Client side exceptions send to server
- Server side publish failure to the user
- Forms show that something is missing

Client side errors

- JS bugs
- Unit testing should catch the worst
- But what if one slips through?



ONE DOES NOT SIMPLY
INTENSIFY FORWARD FIREPOWER

\$exceptionHandler service

By default logs uncaught exceptions to console



Extending \$exceptionHandler

- Create your own implementation (.service/.factory)
- Extend an existing one (.provide)

```
app.config(function ($provide) {
    $provide.decorator("$exceptionHandler", function ($delegate, $injector) {
        return function (exception, cause) {
            var rootScope = $injector.get("$rootScope");
            var HttpLoggingService = $injector.get("HttpLoggingService");
            if (rootScope) {
                HttpLoggingService.sendLog(exception + '\n\n' + exception.stack);
                rootScope.$broadcast('ccAppError',
                        type: 'danger',
                        msg: 'There was an error making a request. The support team has
been notified. If necessary, please refresh your page and try again.',
                        details: exception + '\n\n' + exception.stack
                );
            $delegate(exception, cause);
       };
   });
});
```

Key Points

- config
- \$provide.decorator
- \$injector
- HttpLoggingService
- \$broadcast

Key Obstacle

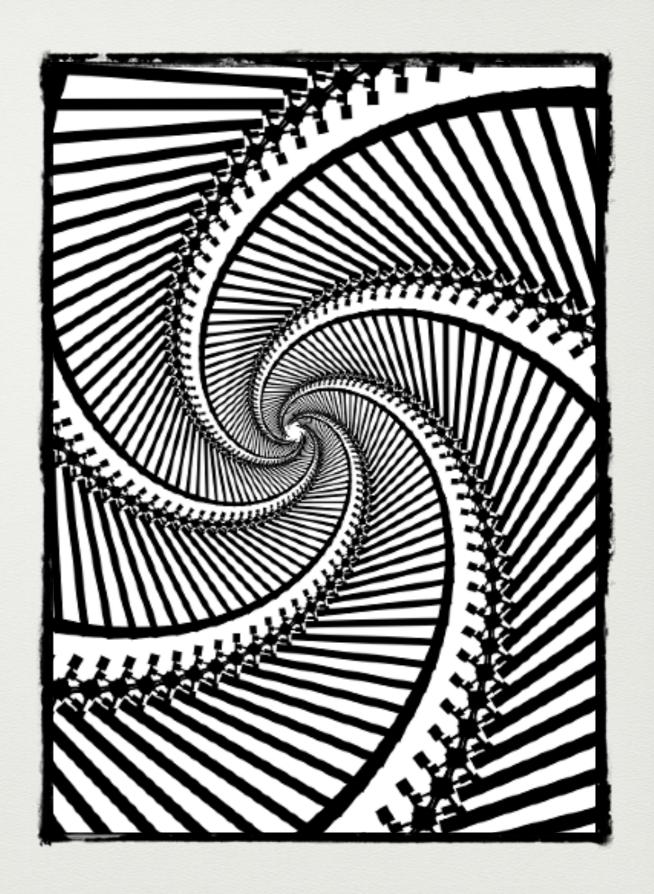
Don't make the error worse:

```
error -> $http -> $apply ->
```

error -> \$http -> \$apply ->

error -> \$http -> \$apply ->

error -> \$http -> \$apply ->



Skipping \$http



DEMO

https://github.com/checketts/ angularExceptionHandler

Interceptor

```
app.factory('ccHttpInterceptor', function ($q, $rootScope, $interpolate, $log, HttpLoggingService)
    var createLogMessage = function (response) {
        if (response.status) {
            return $interpolate('Http Failure: Status: {{status}}, Url: {{config.url}} Method:
{{config.method}}')(response);
        } else {
            return angular.toJson(response);
    };
    return {
        response: function (response) {
            HttpLoggingService.returnToService(response.config.url);
            return response || $q.when(response);
        responseError: function (rejection) {
            $log.error('ccHttpResponseInterceptor response error', rejection);
            var logMessage = createLogMessage(rejection);
            HttpLoggingService.sendLog(logMessage);
            if (rejection.status === 403) {
                $rootScope.$broadcast('ccAppError', {type: 'danger', msg: 'Access Denied'});
            } else {
                $rootScope.$broadcast('ccAppError',
                        type: 'danger',
                        msg: 'There was an error making a request. The support team has been
notified. If necessary, please refresh your page and try again.'
            return $q.reject(rejection);
   };
```

Credit

- Dice- https://www.flickr.com/photos/jeremybrooks/4146565830
- Dynamite- https://flic.kr/p/6ryW5r
- Recursion http://
 payload125.cargocollective.com/
 1/10/328621/4804967/Recursive
 %20Drawing-7.png
- Question box https://flic.kr/p/fhRZKU