



Refactor, Don't Rebuild

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One for All Events — oneforall.events

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php[architect] — www.phparch.com

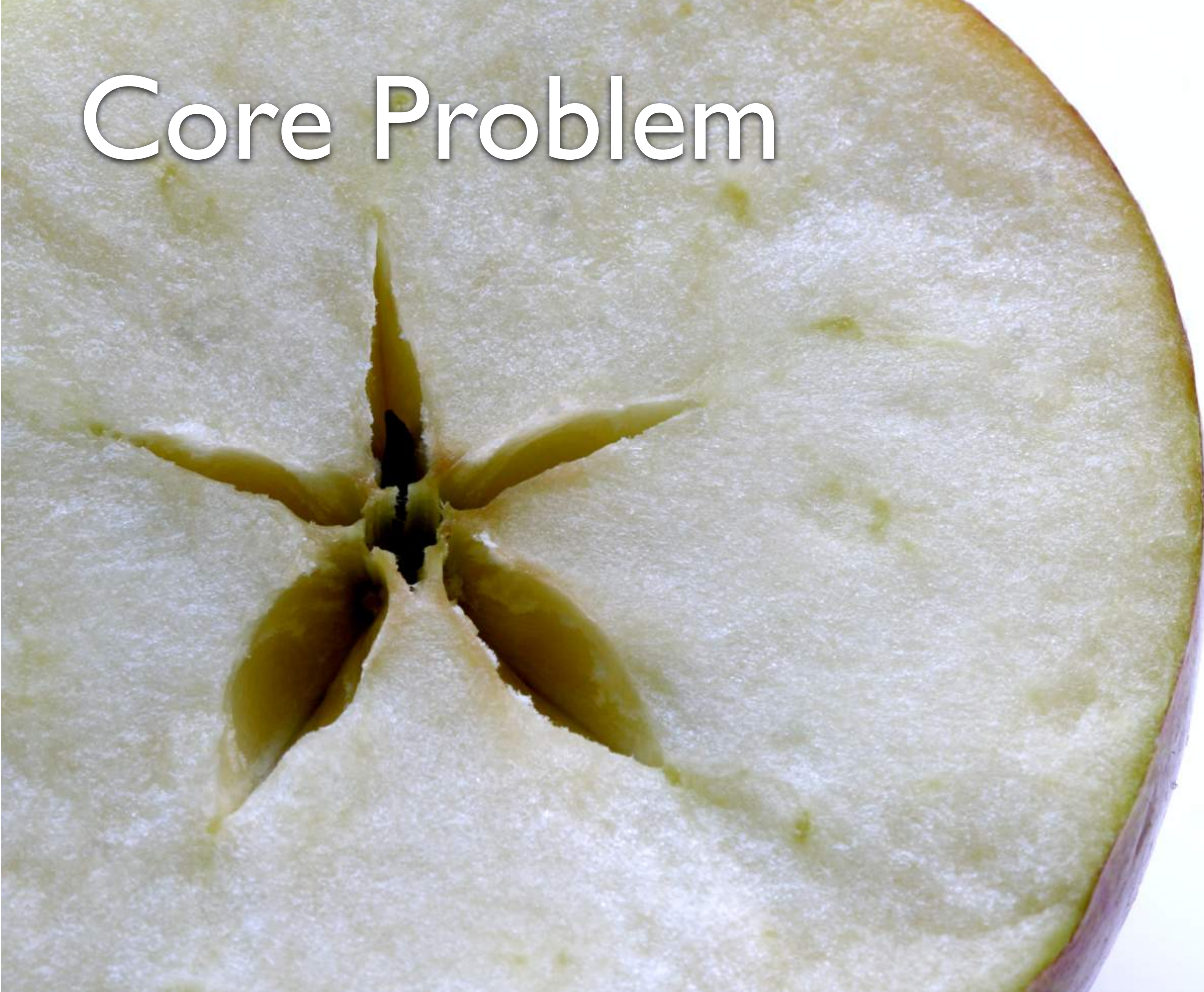
eliw.com - @eliw





@CattyCreations

Core Problem



an apple a day by Jack Tinney, on Flickr



This codebase sucks!

Thinking of you by Fabiana Zonca, on Flickr

Code Doesn't Rot



Rotten Apples by Stephen Butler, on Flickr

Fundamental Problem



Complicated Pile by Christophe / saturnino laichouchen, on Flickr

Joel's Law



It's harder to read
code than to write it.

www.joelonsoftware.com

Do you really think my eyes are bigger than my stomach? by Marin, on Flickr

Bugs



Cotton Harlequin Bugs by Louise Docker, on Flickr

Dislike of Complication

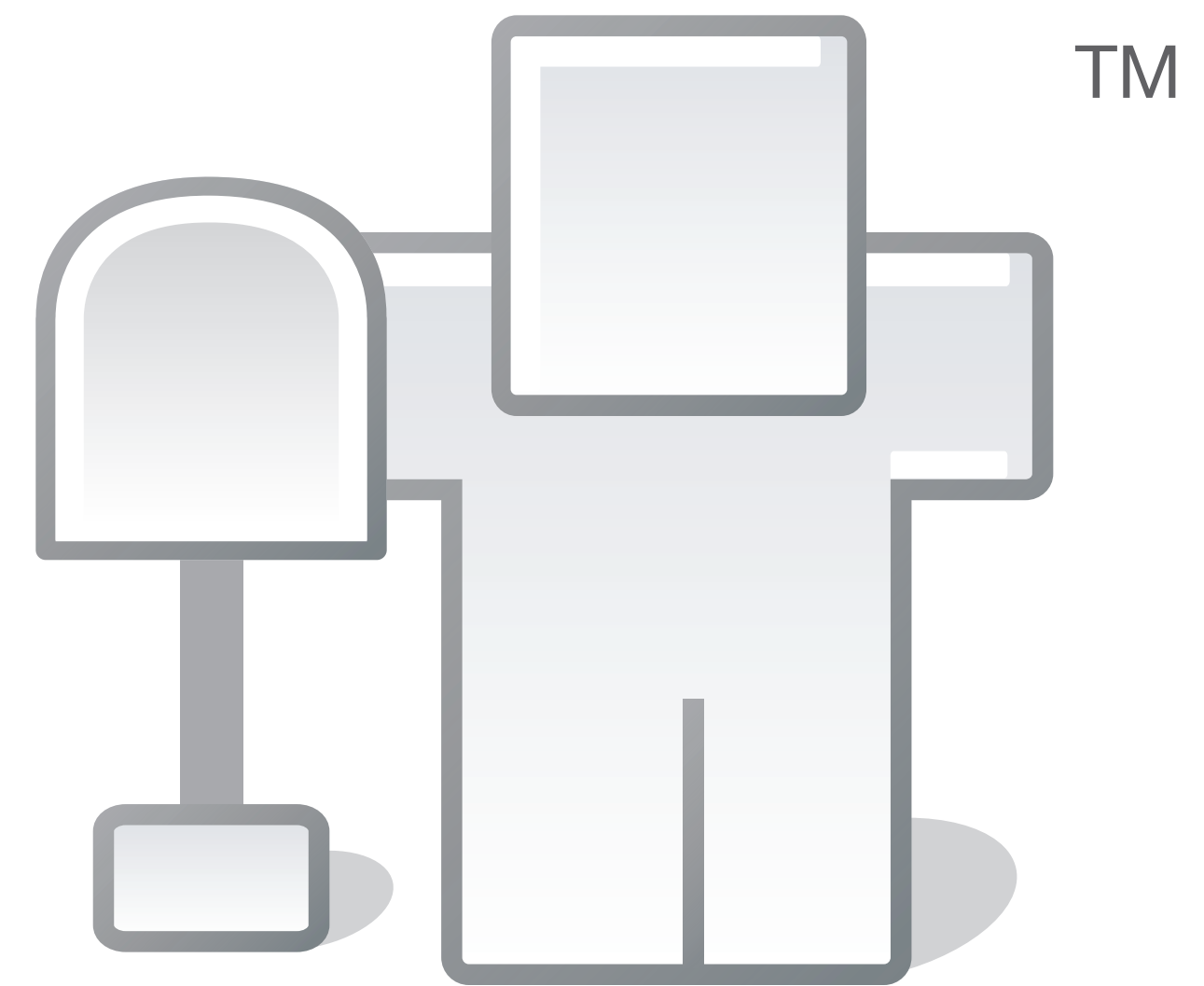
Complicated by Rohit Mattoo, on Flickr

Complication Good

```
385 #endif
386 fprintf(stderr, "red verify\n");
387
388 return 0;
389 }
390 #ifdef VERBOSE_RBT_VERIFY
391     if (left)
392         printf("\n%ld%c%c\n", "%ld", "%c", "%c", (long)(0));
393     if (right)
394         printf("\n%ld%c%c\n", "%ld", "%c", "%c", (long)(0));
395 #endif
396
397 height_l = rbt_verify_n(left, compare);
398 height_r = rbt_verify_n(right, compare);
399
400 // Verify BST property.
401 if (((left != NULL) && (compare->comp
402     ((right != NULL) && (compare->comp
403 #ifdef VERBOSE_RBT_VERIFY
404     FATAL_ERROR("red verify\n");
```

Code by Michael Himbeault, on Flickr

Example



Lost Time



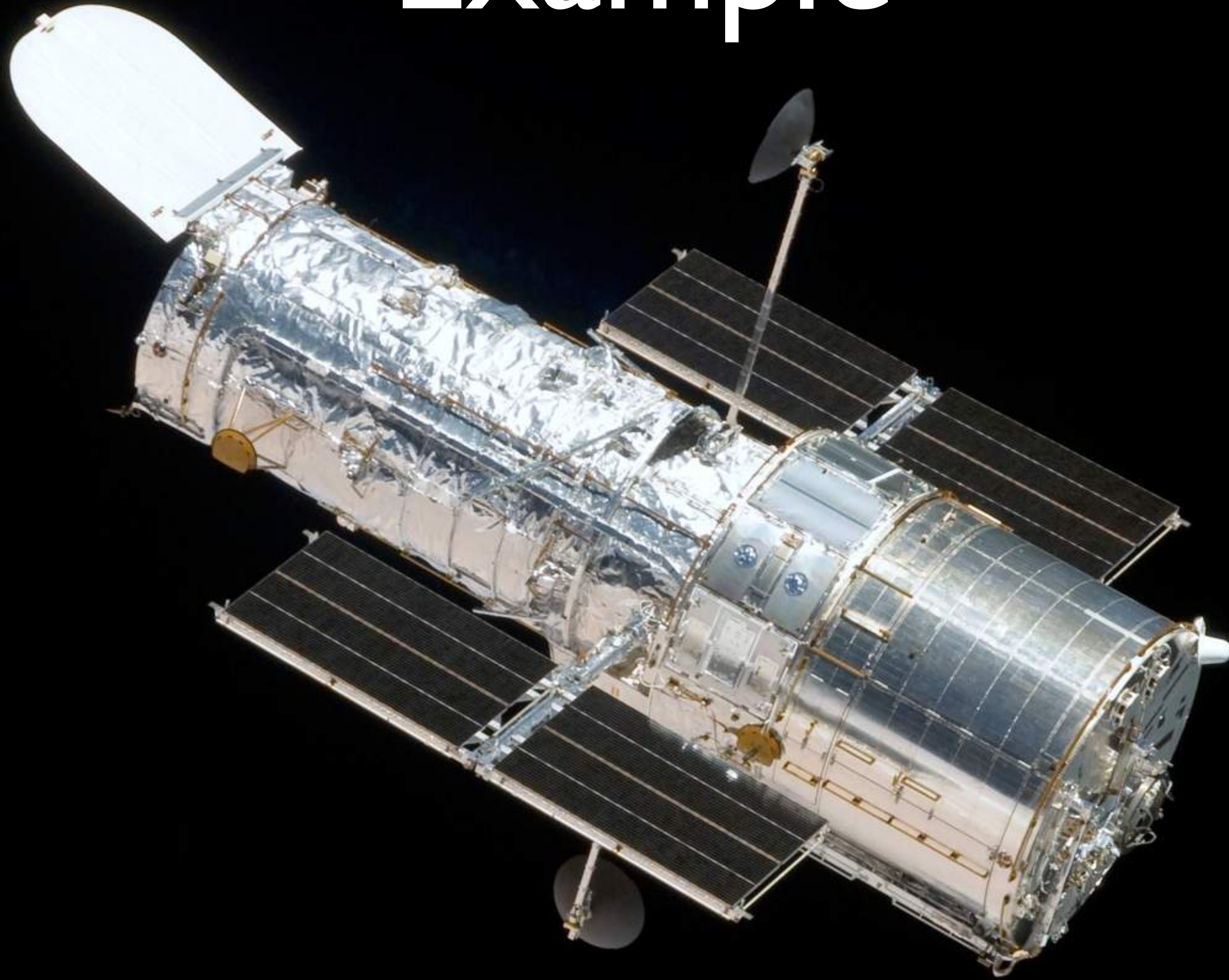
The Passage of Time by Toni Verdú Carbó, on Flickr

Example



NETSCAPE®

Example



Products Never Ship



Ship Portrait - "Elissa" by Louis Vest, on Flickr

Example: Microsoft



Pyramids of Giza by Dietmar Temps, on Flickr

Loss of Functionality



Skin Deep by David Blackwell, on Flickr

Example



Example



What to do?

danger ranger by john curley, on Flickr

Break it Up



break by Paul Goyette, on Flickr

Example: Digg & MVC



Fancy Digg HQ Sign by Scott Beale, on Flickr

Example



php[architect]

Example: Hubble Releases



The Sombrero Galaxy — NGC 4594 (M104)  HUBBLESITE.org



Recap Rebuild Refactor

RSS hats in China by Robert Scoble, on Flickr

Questions?

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