

OHIO

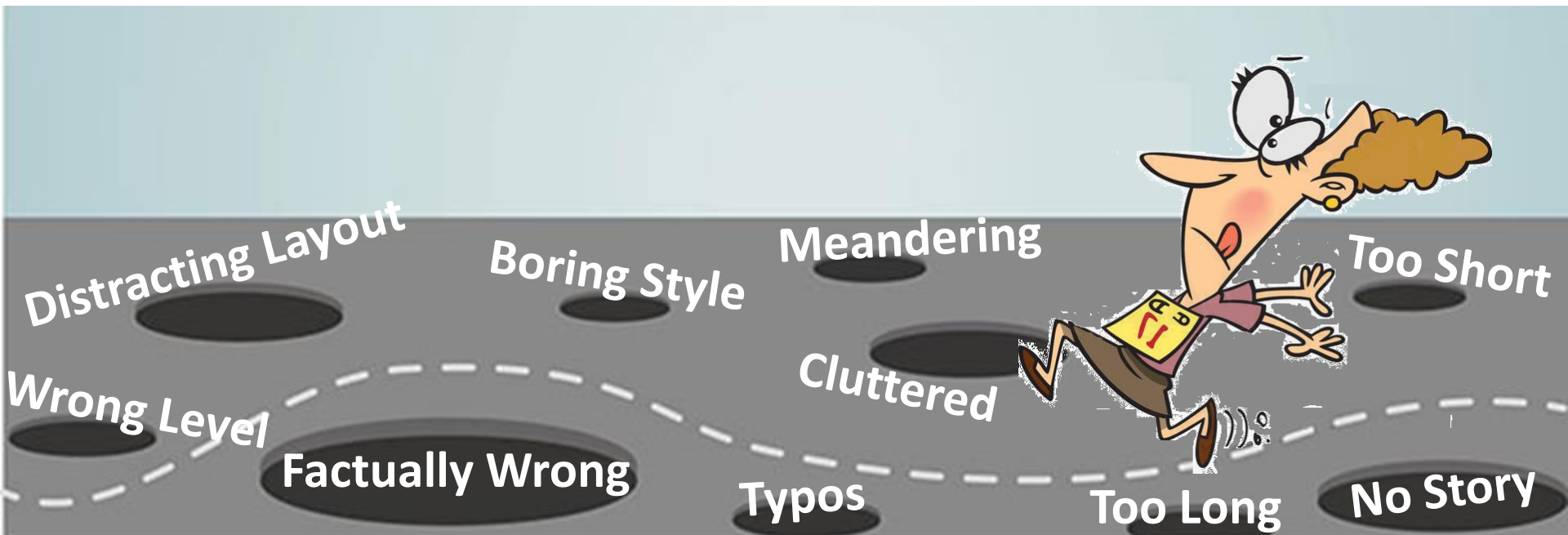


*Advice on
Scientific Presentations*

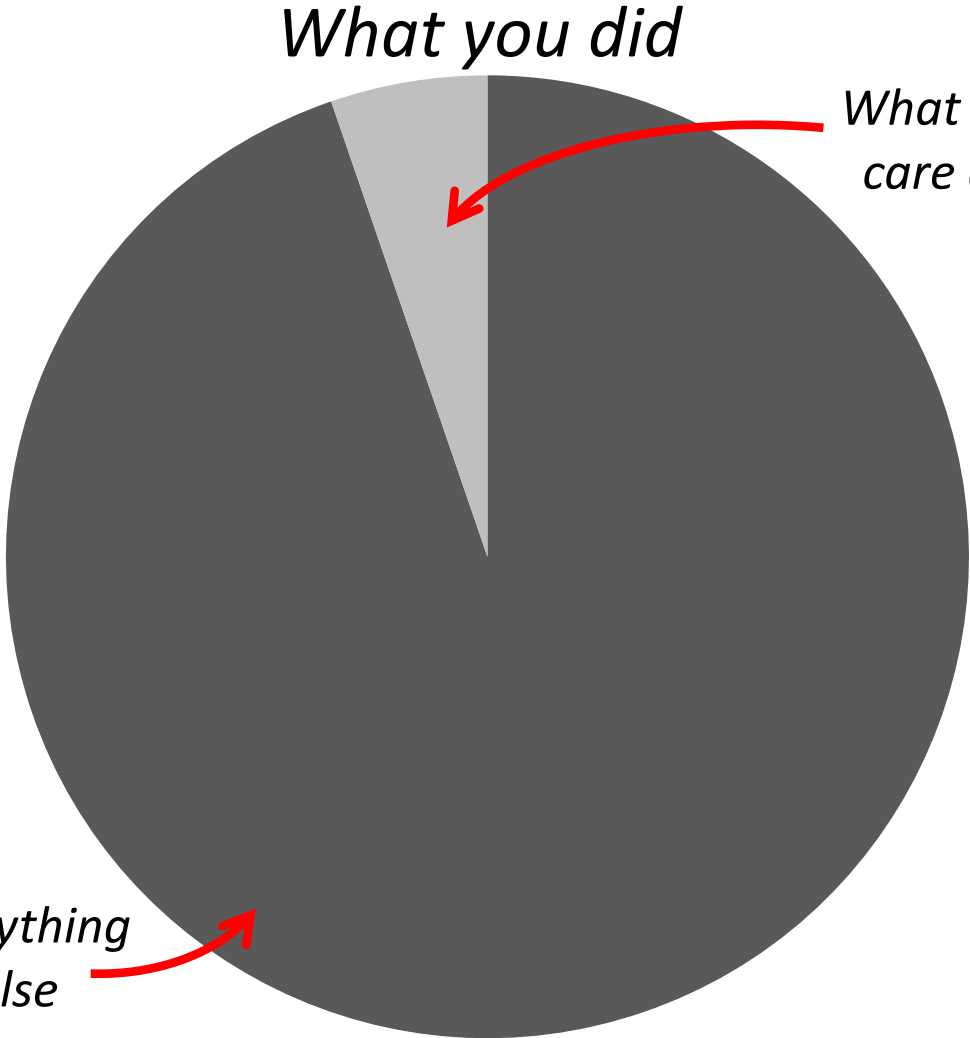
Zach Meisel
PHYS 6751, Fall 2016

**see the course webpage for this and
other advice on scientific presentations*

There is no *right way* to give a presentation
...but there are plenty of wrong ones



Before you start, decide on your story



What people care about

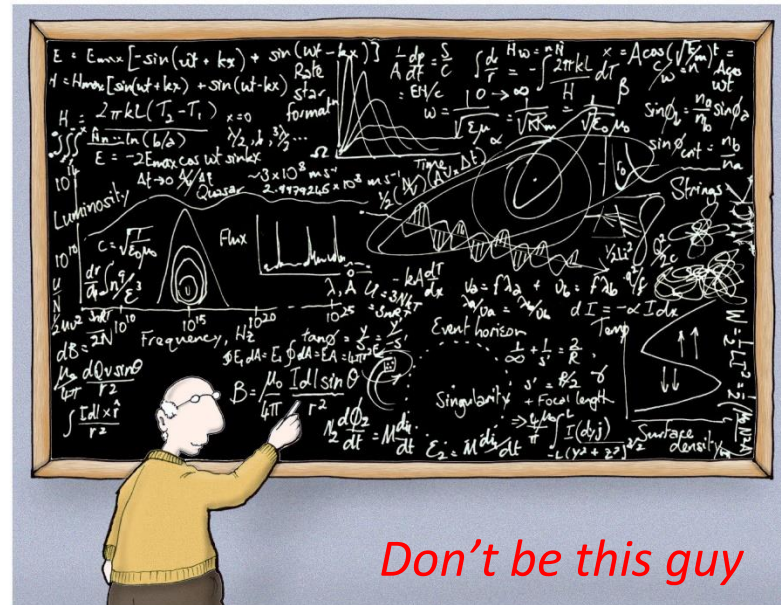
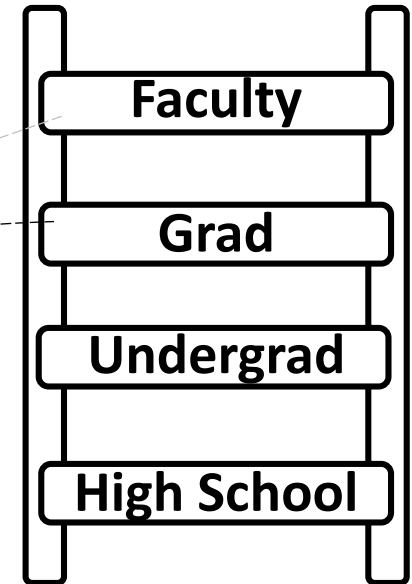
Deliver the highlights.
No one cares about most of the details.

Everything else

Don't be this guy



Decide who will make-up the audience, then go one level down



Astrophysics made simple

Tell your story with key figures

NEARSON'S CLASSROOM

Name _____

Date _____

Title: _____

Author: _____

Beginning

Problem:



Middle

Method to Solve Problem:



End

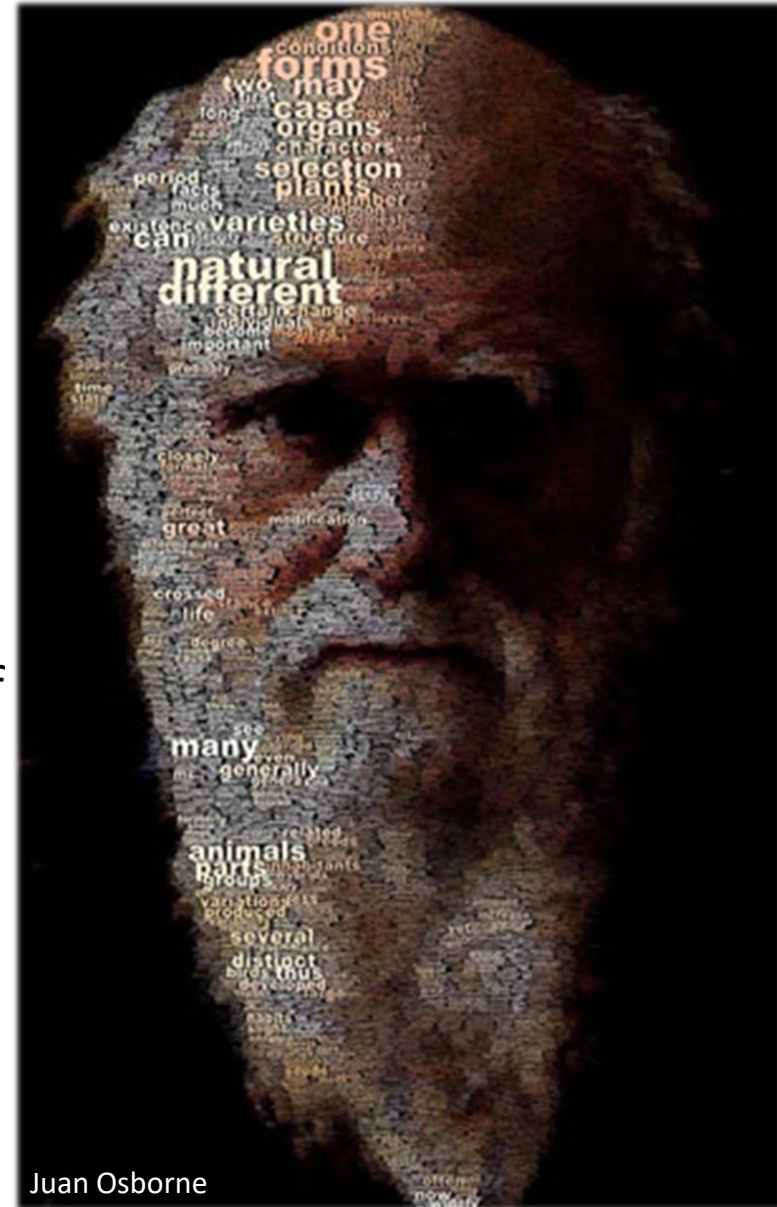
Results:



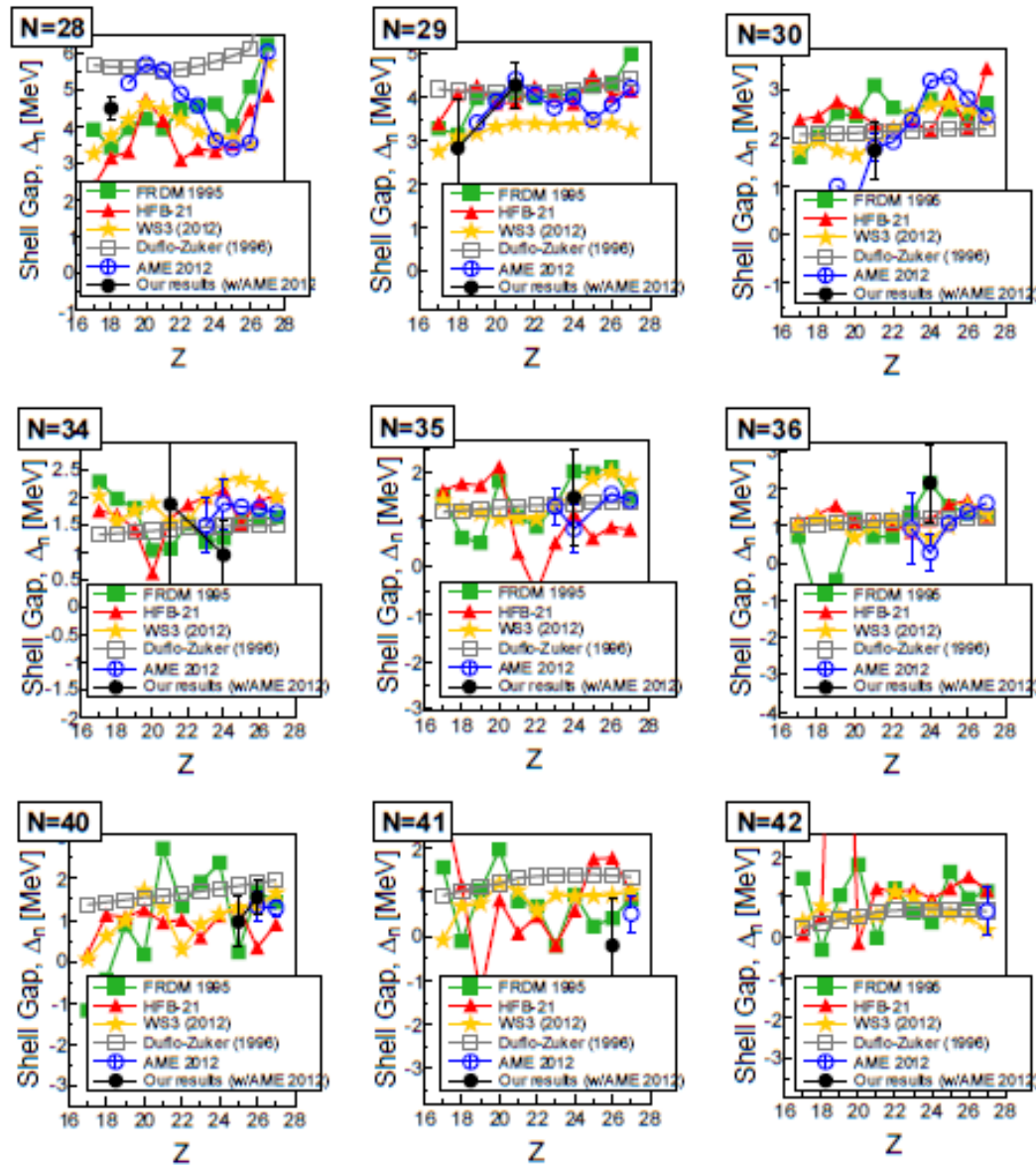
RETELLING STORY MAP

Do not use walls of text & avoid bullets

- This portion of the slide is worse than useless.
- It isn't possible for you to simultaneously read this and listen to me and to understand both.
So I'm either wasting my time talking to you or wasting my time typing this.
- As a speaker I will likely fall into the trap of reading this text to you, simultaneously boring you and me, likely disengaging both of our brains.
- On top of all of that, this wall of text is completely hideous.
- The only **Acceptable Use of Bullets** contains:
 - **Key facts/figures**
 - **Short, notable names/phrases**



Overly complex figures are useless too



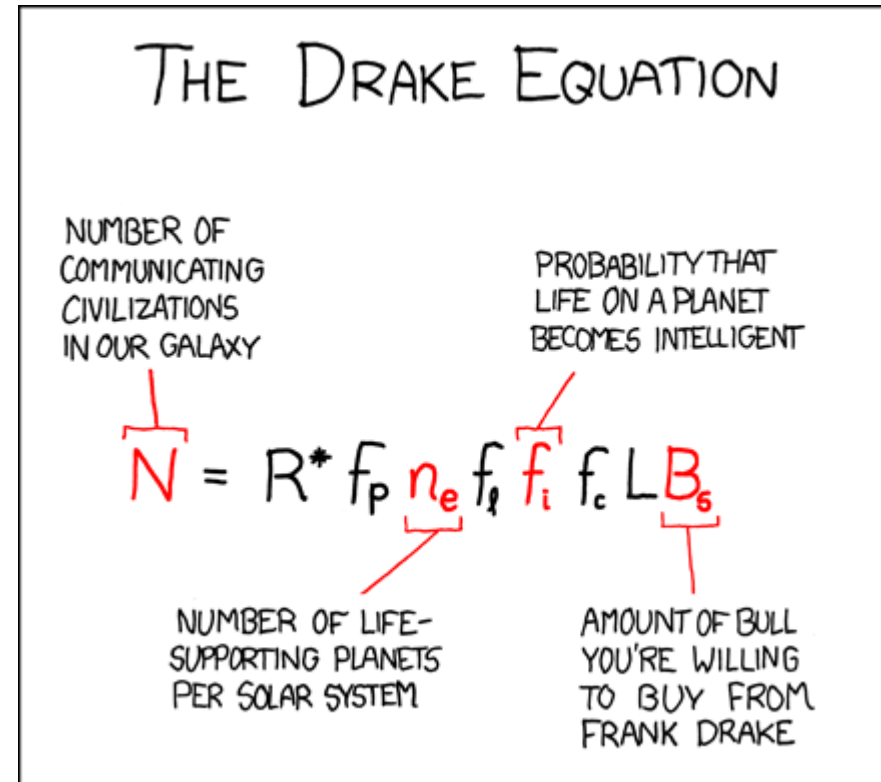
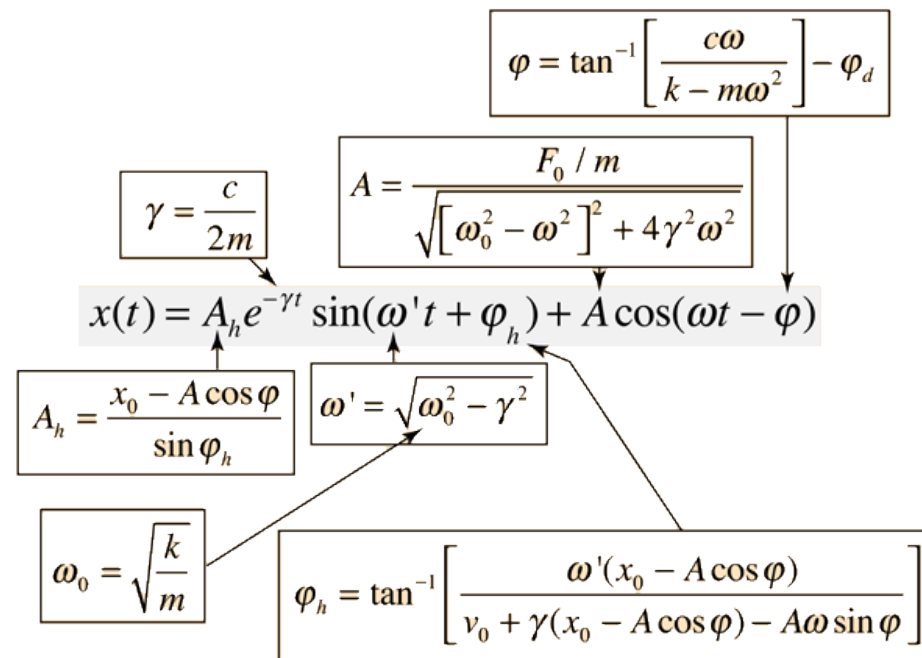
...as are large tables (use a graph instead!)

Isotope	This experiment	AME2012	FRDM	HFB-21	DZ	WS3
$^{48}\text{Ar}^\dagger$	-22 280(310)	–	-21 240	-21 900	-21 889	-22 044
$^{49}\text{Ar}^\dagger$	-17 800(1100)	–	-14 880	-16 110	-15 648	-16 406
^{52}Sc	-40 300(520)	-40 167(142)	-39 360	-40 110	-39 241	-40 400
^{53}Sc	-38 170(570)	-38 107(270)	-36 840	-38 480	-37 148	-38 861
^{54}Sc	-33 750(630)	-33 599(363)	-32 030	-33 980	-32 623	-34 139
^{55}Sc	-30 520(580)	-29 977(463)	-29 170	-31 320	-29 597	-30 758
$^{56}\text{Sc}^\dagger$	$-24\ 850(590)_{-540}^{+0}$	–	-23 840	-25 230	-24 425	-25 146
$^{57}\text{Sc}^\dagger$	-21 000(1300)	–	-20 440	-22 550	-20 627	-21 115
^{59}Cr	-48 540(440)	-47 891(244)	-48 680	-49 160	-48 013	-48 451
^{60}Cr	-47 440(460)	-46 504(213)	-47 910	-48 200	-46 732	-46 779
^{61}Cr	-43 080(510)	-42 455(129)	-42 700	-43 710	-42 534	-42 461
^{62}Cr	-40 890(490)	-40 895(148)	-41 180	-41 960	-40 630	-40 445
^{63}Cr	-35 940(430)	-35 722(459)	-36 030	-37 290	-35 962	-35 773
$^{64}\text{Cr}^\dagger$	-33 480(440)	–	-34 950	-34 730	-33 545	-33 347
$^{67}\text{Mn}^\dagger$	-34 090(620)	–	-34 480	-34 960	-33 141	-33 294
^{67}Fe	-45 190(430)	-46 069(218)	-46 530	-46 940	-45 991	-45 577
^{68}Fe	-43 620(430)	-43 825(365)	-45 360	-45 170	-43 853	-43 665
$^{69}\text{Fe}^\dagger$	-39 350(600)	–	-40 230	-40 390	-39 156	-39 380

...and excessive equations
(unless schematically broken-down)

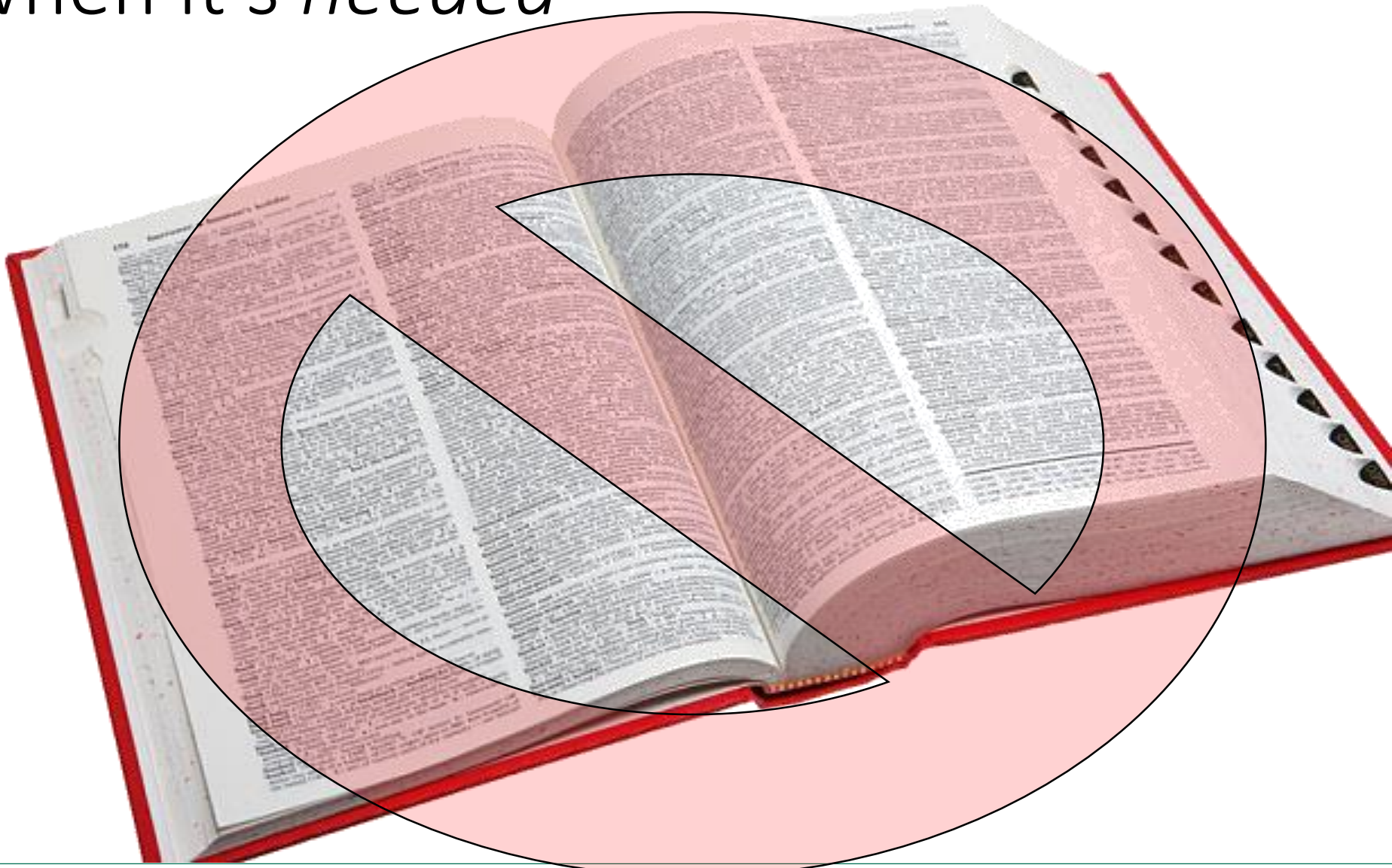
Not OK

OK



**only absolutely essential equations should be shown*

Present relevant information (variables, references) when it's *needed*



Finish On Time!

