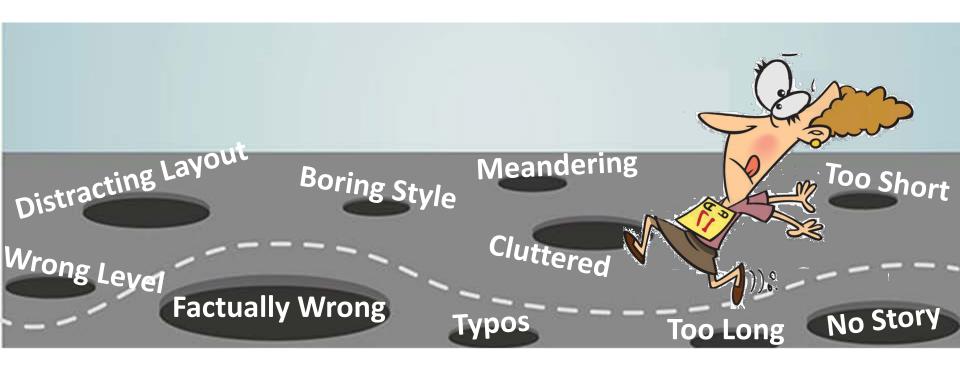


Advice on Scientific Presentations

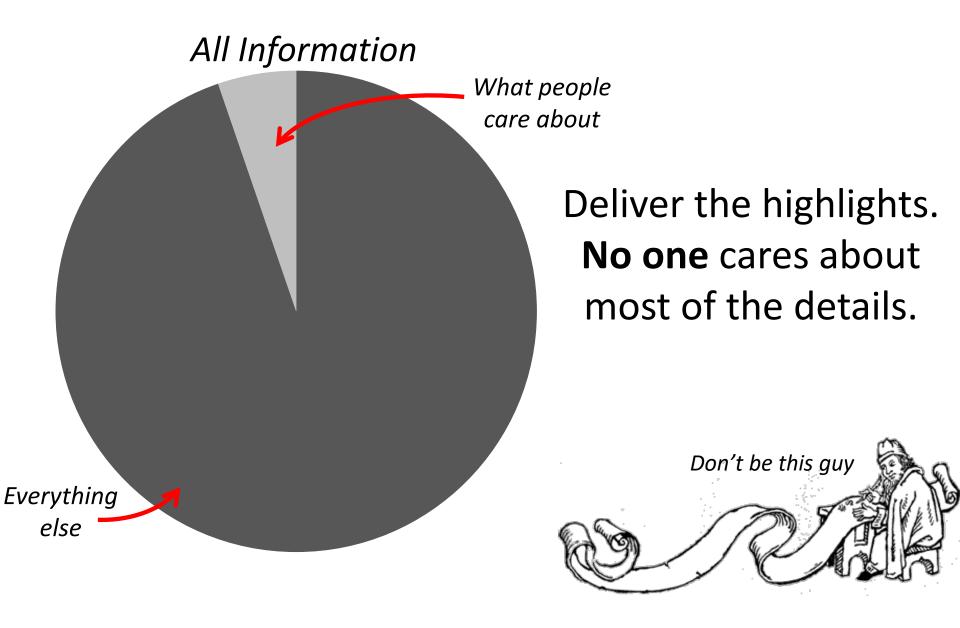
Zach Meisel PHYS 7501, Fall 2021

*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

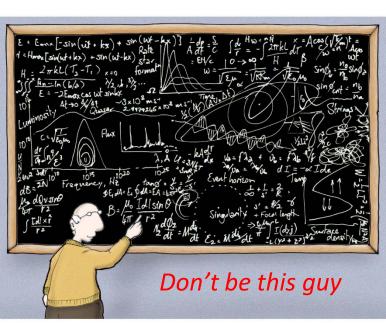


Before you start, decide on your story

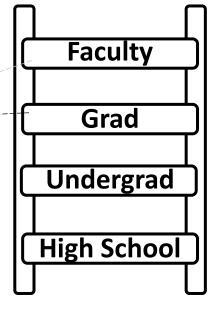


Decide who will make-up the audience, then go one level down





Astrophysics made simple



...or else this will happen



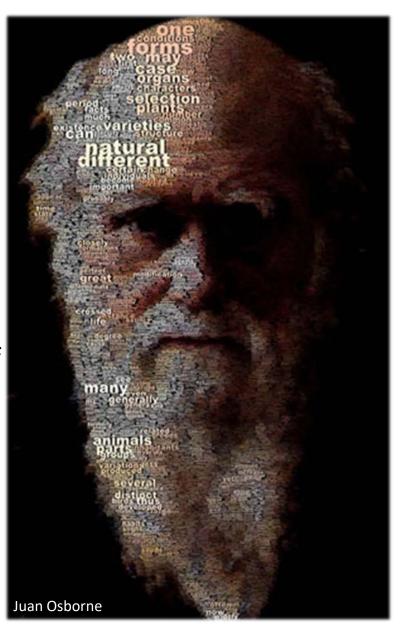
"I really enjoyed your presentation. During the third hour, my spirit left my body and went to the beach!"

Tell your story with key figures

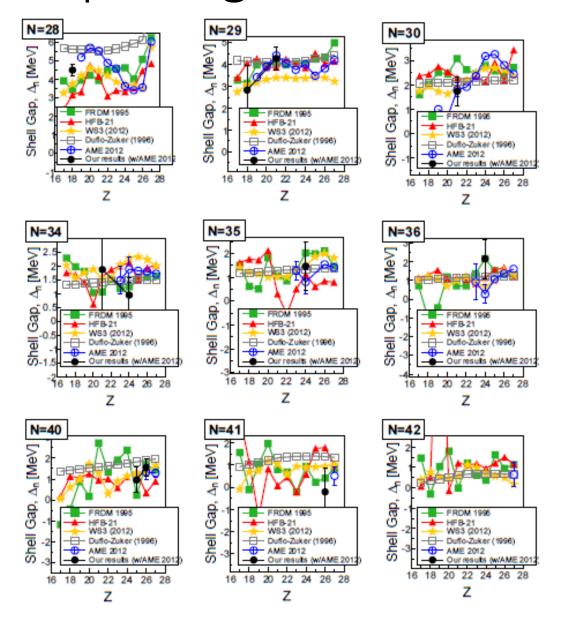


Do not use walls of text & avoid bullets

- 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



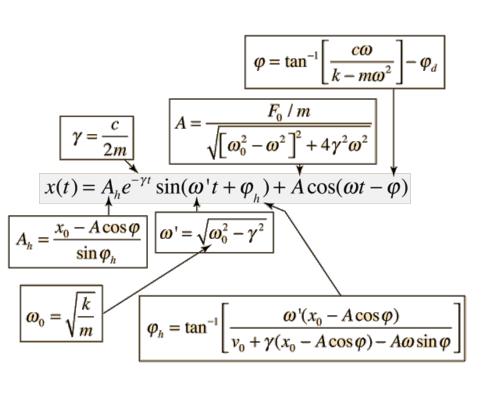
...as are large tables (use a graph instead!)

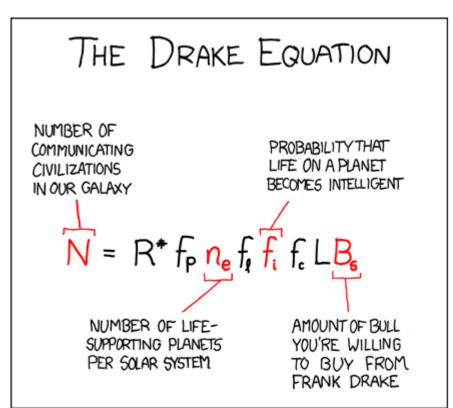
Isotope	This experiment	AME2012	FRDM	HFB-21	DZ	WS3
$^{48}\mathrm{Ar}^{\dagger}$	-22 280(310)	_	-21 240	-21 900	-21 889	-22 044
$^{49}\mathrm{Ar}^{\dagger}$	-17 800(1100)	_	-14 880	-16 110	-15 648	-16 406
$^{52}\mathrm{Sc}$	-40 300(520)	-40 167(142)	-39 360	-40 110	-39 241	-40 400
$^{53}\mathrm{Sc}$	-38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

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

Not OK

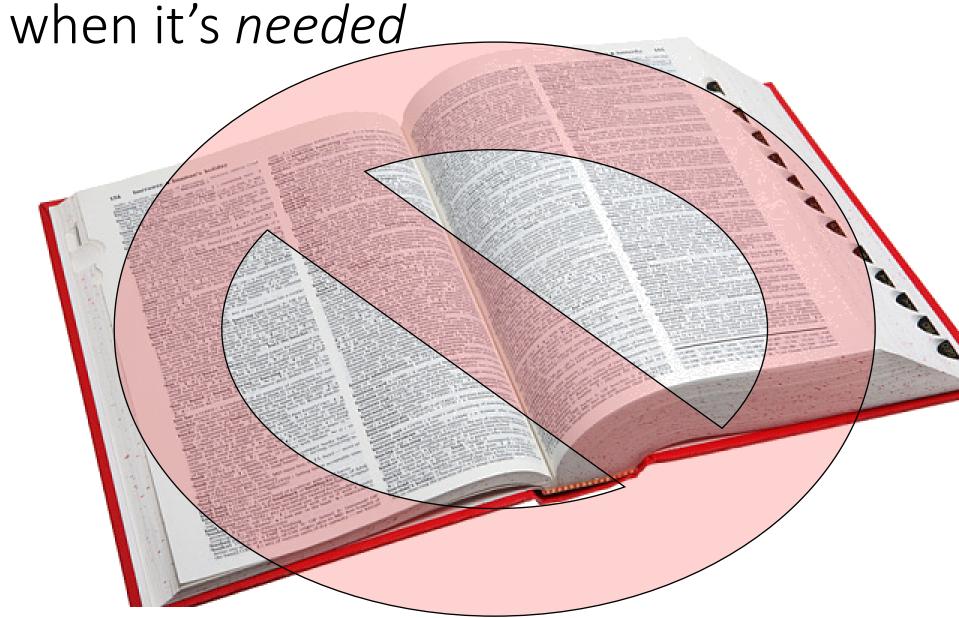
OK





^{*}only absolutely essential equations should be shown

Present relevant information (variables, references)



Finish On Time!





