Single numbers & parts of a whole





Miscellanea

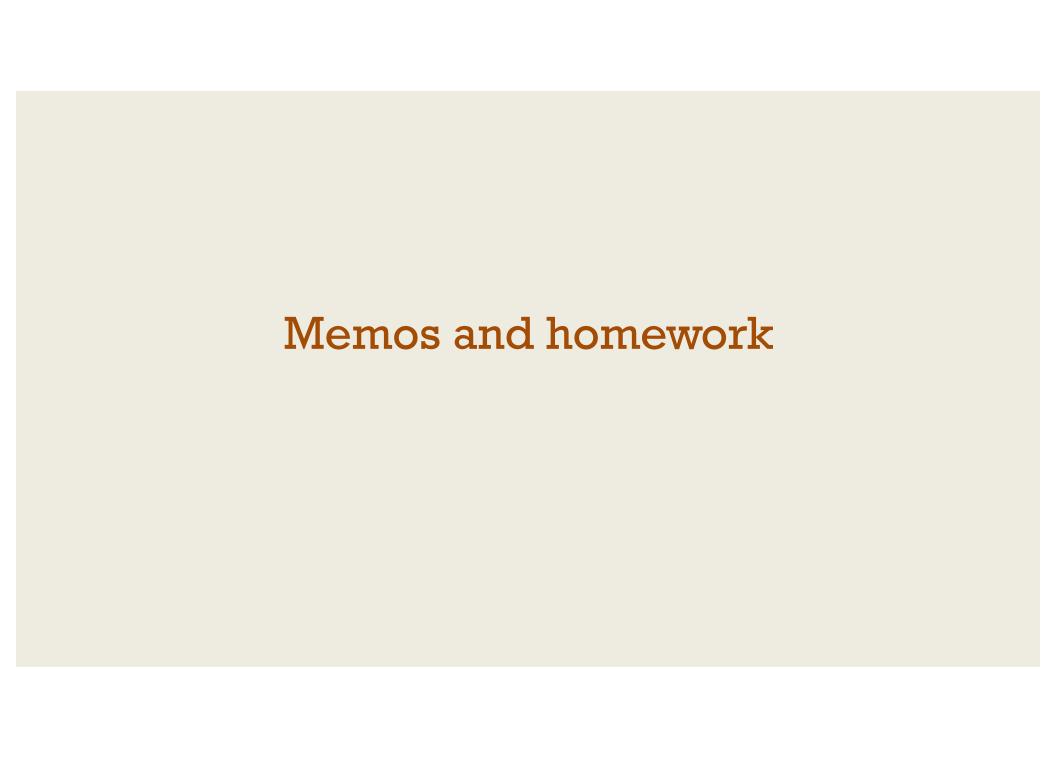
The Truthful Art

Working in Excel

R, Markdown, and R Markdown

Practice!





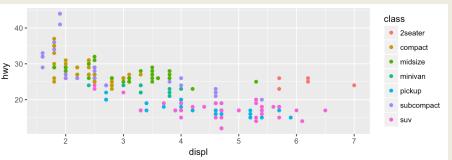
Course policies

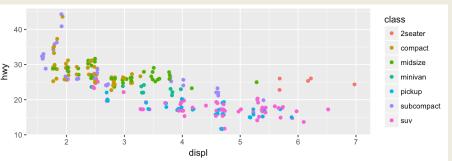
Class conduct and expectations

On the first day of class we'll come up with rules, expectations, and policies for things like technology in the classroom, attendance, participation, late work, etc. I will put those here once we all agree.

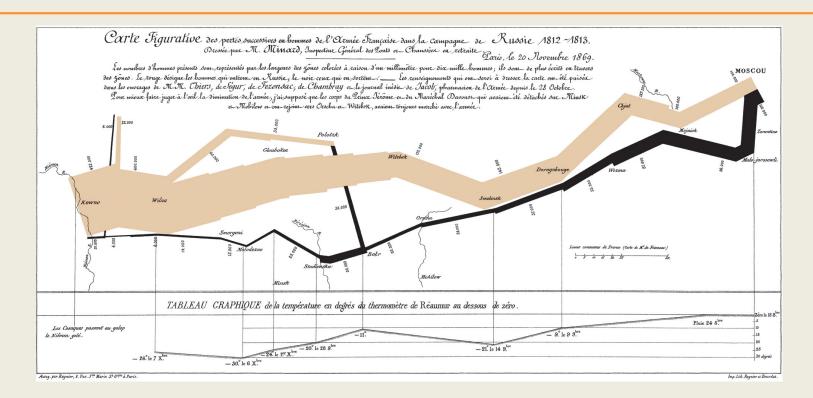
Facts ≠ Truth



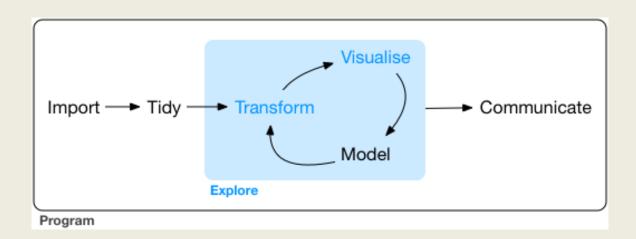




Simplicity vs. the Data/Ink Ratio



Purposes of visualization



Analysis

Exploration

Discovery



Qualities of great visualizations

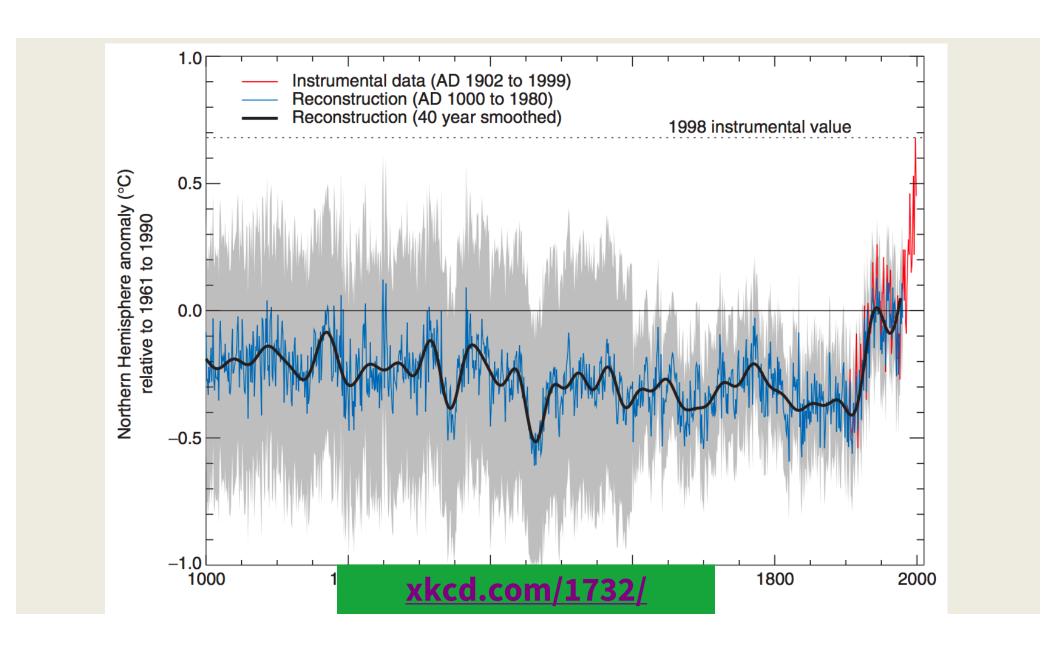
Truthful

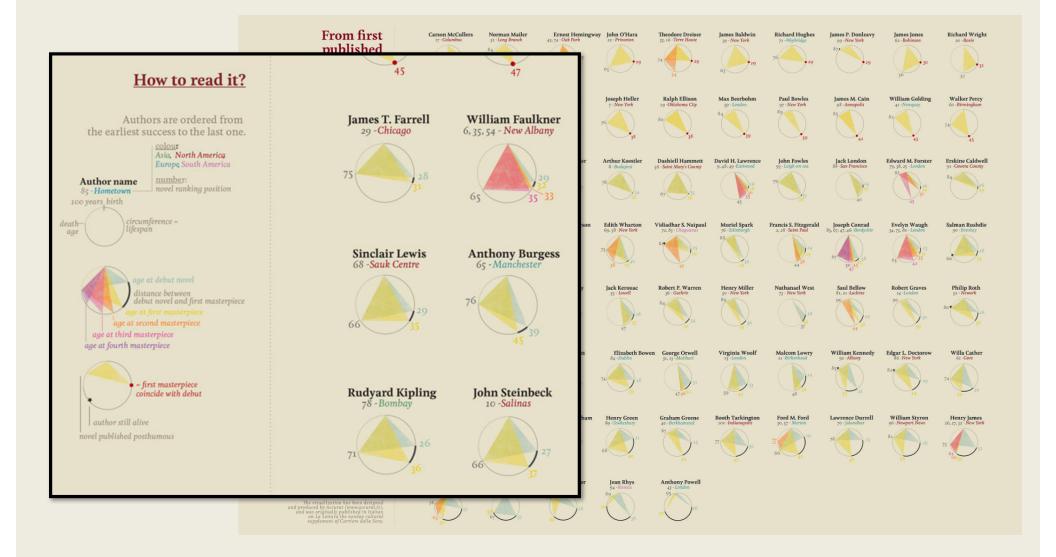
Functional

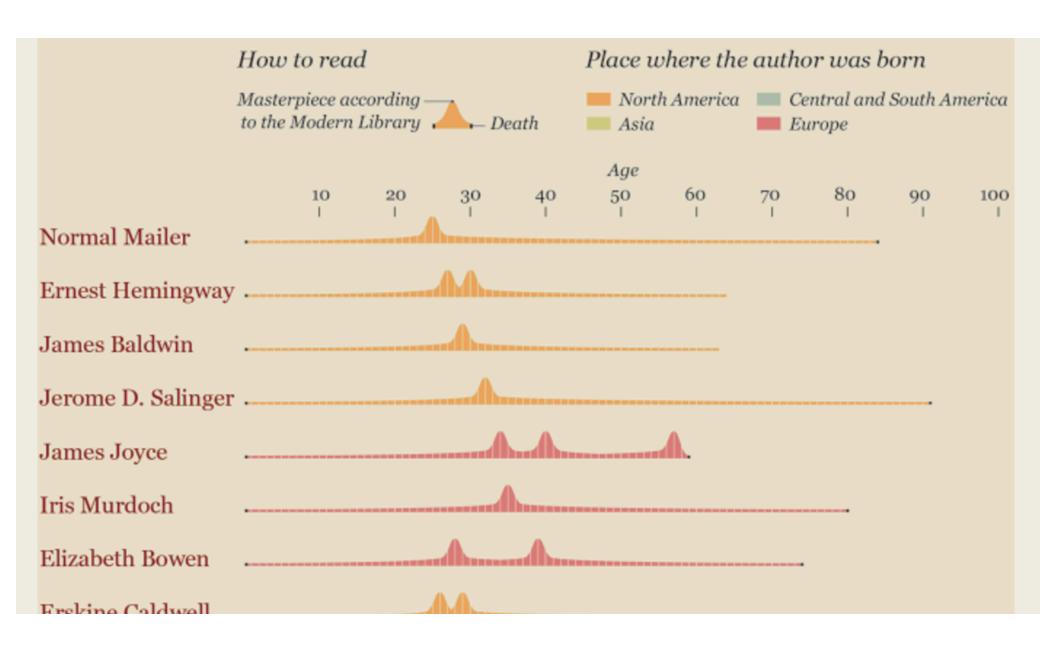
Beautiful

Insightful

Enlightening







Coins

30 times

What gets in the way of truth?

Patterns

Lies and deception

Storytelling and confirmation

Patterns

frontiers in NEUROSCIENCE



Superior pattern processing is the essence of the evolved human brain

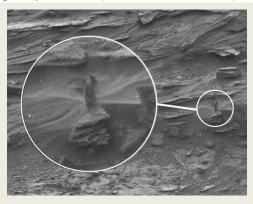
Mark P. Mattson 1,2 *

- Laboratory of Neurosciences, National Institute on Aging Intramural Research Program, Baltimore, MD, USA
- ² Department of Neuroscience, Johns Hopkins University School of Medicine, Baltimore, MD, USA

Edited by:

J. Michael Williams, Drexel University, USA

Humans have long pondered the nature of their mind/brain and, particularly why its capacities for reasoning, communication and abstract thought are far superior to other species, including closely related anthropoids. This article considers superior pattern





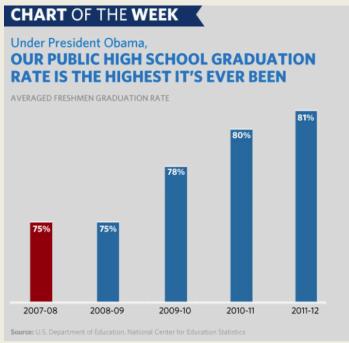




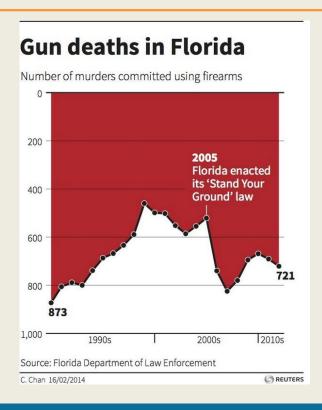
twitter.com/FacesPics

Lies and deception





Lies and deception





Storytelling and confirmation

Rural



Urban



		puhr	c					MEETS EXPECTATIONS	abic is
Grading Rubric Final Policy Memo				Total	=		MEETS EXPEGI	The topic of the infographic is	
		Final Policy 112					OS EXPECTATIONS	The topic of the infographic may be	The topic of the infographic is hard to ascertain and needs to be hard to more specific.
				IXO IT	70	EXCEE)S EXT	tonic of the infographic theyer to	hard to ascertain and made more specific.
			- tory	Below ext	COMPONENTS		anhic is	The topic of the infographic may be a bit too broad to allow the viewer to a bit too broad the main points.	
			Satisfactory	The probler		-topic of	f the infographic is nature and is intended to	a bit too broad to allow the same abit too broad the main points.	- raphic chosen
		Good	a lem is	described of	\	enecific in t	f the infographic is nature and is intended to convince the viewer.		The type of infographic chosen
	uent	ar includes a		ttle Of HO	TOPIC	inform or o	nature and is interior convince the viewer.		The type of infographic chosen does not convey the informatic does not convey the content being or support the content being or supp
\	Excellent	The paper includes a	Nonverbal S	Lan	1011	1		e. The type of infographic chosen	The type of the does not convey the information does not convey the information does not convey the content being well or support the content being presented.
EGORY	significant problem	description	Eye Contact	Kills			cographic chosen (i.	The type of infographic chosen but another type may lead chosen but another type may lead chosen clarity for the viewer.	presente
for		problem, research	ontact		4 - Exce	n4i-	etc.) high	represents that another type mey chosen but another type m	
intion=	milles				Holds attention of audience with the	ouonal		t to more	Too many different types of
1 -40	the DIUUIS 1des			/	audience with the	r entire	Consistent use of	robl	
*	accribitor and		Body Language		direct eye contact	use of	Consistent use of a	able	hat makes it had the c
\	description includes sufficient research and sufficient research and facts to make the case	concise of solitariaspect is unclear	Distribute		looking at notes of	seldom	Consistent use of contact with audien still returns to notes	direct eye Displayed minim	able
\	facts to mean is		Poise	/ h	Movements seem in the audience viscolars	siides.	still returns to notes	ice, but Displayed minimal contact with and	avo 1
	The description of the comprehensive, yet				elp the audience visplays relaxed	iuid and	Mada	contact with audience reading mostly from	NO eve
	comprehensi	(16-1)		000	isplays relaxed, se		Made movements or that enhance articular		
	concise. (20-17)	ons The paper in		- Wi	nfident nature abo th no-mistakes			lon / CIV littl	notes. note.
	recommendation or recommendation of the reco	ons options for maker,			th no-mistakes.	, ,	Ollicki. Tuustake	ucscrint:	0.7
	recommeribes t	wo or opered	erbal Skills				displaye limited	Displan	1 100 more
Engaging and	terful	he recomme E	nthusiasm				displays little or no ten	trouble ros	No movement or des
down and	of full	24	asiasm		4-Excond			mistakes. mistakes.	
ling thesis as approassignment pun				Dem	4 - Exception Onstrates a strong, we feeling at	al T			ODVIONA
pur	opriate to represents sour adequate under of the represents represents sour adequate under of the represents represents sour adequate under represents rep	is; thesis Mostly if	eaking Skills	/ Dositi	a Strong		3 – Admirable		recovering from mista
	of "Vuate unde	nd and thesis is too broa	SKILLS	during	sentire presentation	pic Go	casionally shows posi lings about topic		8 Hom mista
Consistent eviden originality and den ideas:	Do	opic.		I UNES o	-1		lings about topic	tive Shows some per interest.	
originality and dep ideas; ideas work	pth of Ideas supported			at a go	and e				
what what as a unic	Sufficiently: eu-	t is Main poi		nreembe	od pace so audiend rs can hear	e The	enter's voice is clear.	toward topic presented.	Shows about
(with	are logical and			offer	tion		pace is a little slow or times. Most on it	Present	Shows absolutely no inte
(with evidence); supported is valid and specific. Organization is	Port	supporte sufficient		off slide	s. not rea	id memb	t times. Most audiences can hear		
and allication is no.		"s loosely Timin	10			Dresen	Pers can hear		e Present
and appropriate to assignment; paragraph are well developed appropriate	Competent	Lengt	n of Presentation			1-0501	tation.	difficulty hearing	fast, and speaks too quietly for a majority of stud-
are well developed and appropriately divided;	hs organization, without composite	Limited a	of Presentation	4-	Exceptional			presentation.	101 a mai
ideas linked with smooth	str. Petent para	organize	11011	Within two	aceptional			ontation.	hear & understand.
Smooth	structure; lacking in effective transitions.	thesis; pa mostly stand-alones with weak or non		allotted tim	Exceptional o minutes of	3	- Admirable		anderstand.
	araisitions.		Darage		- //	Within f	- Admirable our minutes of ime +/		
		- ISIUODO S	Paragraphs were imple, disconnected str	-		allotted to	ime +/-	2 - Acceptable Within six minutes	
		1 4		ucture is weak;	autilia.			time to six minutes of it	
			inag	ucture is weak; nsitions are missing, opropriate and/or	paragraph or series isolated paragraph			Within six minutes of allotted time +/-	1 - Poor
				70/0	isolated paragraphs	of			Too long or too short



Let's do some stuff!