

Presentation Tips

► METIS



METIS

Agenda



Content



Agenda



Content



Slides



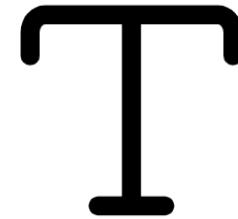
Agenda



Content



Slides



Text



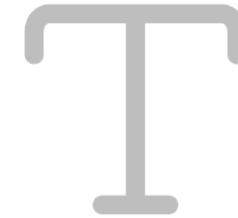
Agenda



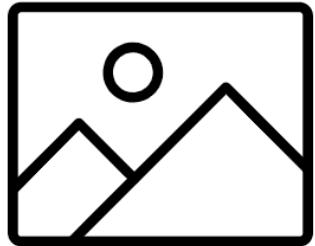
Content



Slides



Text



Images



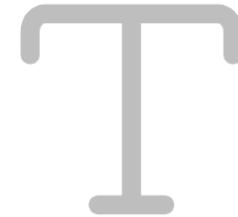
Agenda



Content



Slides



Text



Images



Audience



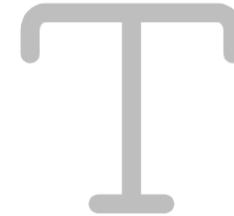
Agenda



Content



Slides



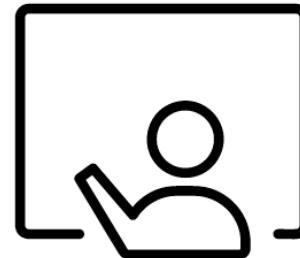
Text



Images



Audience



Presentation





CONTENT

2017 | \$

What to include?

- Introduction

- ▶ 1 slide
- ▶ Motivation, objectives and goals



What to include?

- Introduction
 - ▶ 1-2 slides
 - ▶ Data, Models, Metrics, Tools
- Methodology



What to include?

- Introduction
 - ▶ 1-2 slides
 - ▶ ROC Curve, Accuracy, \$ Saved, Adj. R2, MSE
- Methodology
- Results



What to include?

- Introduction
 - ▶ 1 slide
 - ▶ Recommendations, interesting insights
- Methodology
- Results
- Conclusions



What to include?

- Introduction
 - ▶ 1 slide
 - ▶ If you had more time, what else would you do?
- Methodology
- Results
- Conclusions
- Future Work



What to include?

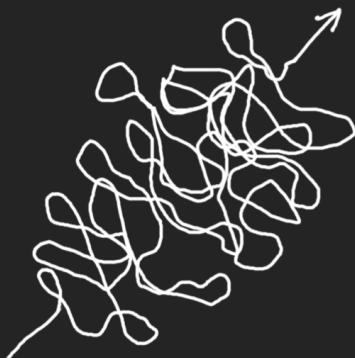
- Introduction
 - Methodology
 - Results
 - Conclusions
 - Future Work
 - Appendix
- ▶ Many slides
 - ▶ Everything else



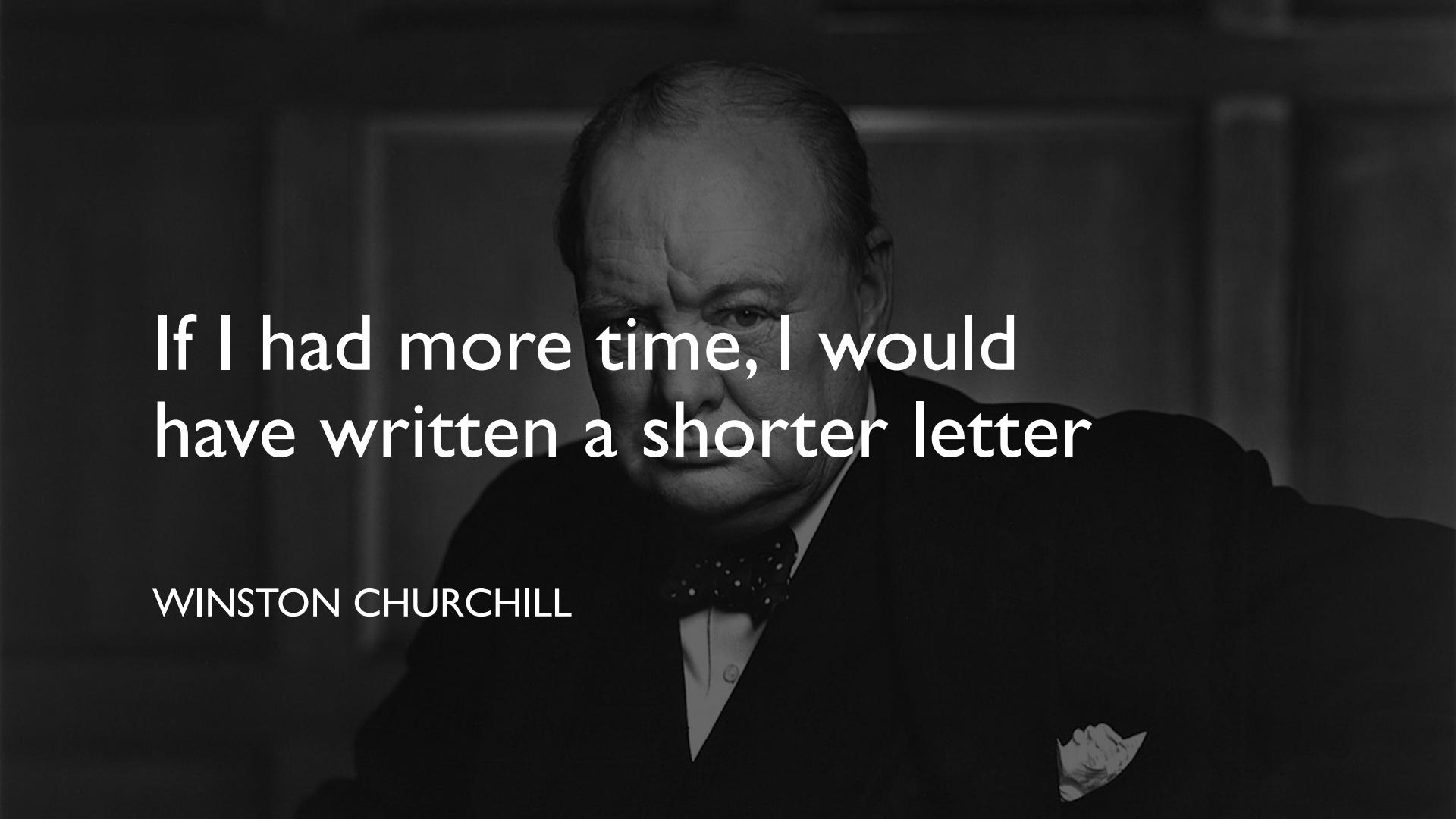


Most of your work will end
in the cutting room floor

What to include?



Work Performed

A black and white portrait of Winston Churchill. He is shown from the chest up, wearing a dark suit, a white shirt, and a patterned bow tie. His hair is thinning at the top, and he has a serious, contemplative expression, looking slightly to his right. The background is dark and out of focus.

If I had more time, I would
have written a shorter letter

WINSTON CHURCHILL



SLIDES

ΣΕΛΙΔΑ | 8

“

Perfection is achieved, not
when there is nothing more
to add, but when there is
nothing left to take away



”



ANTOINE DE SAINT-EXUPÉRY

$\frac{1}{2m} \frac{d^2\psi}{dx^2} + V\psi = E\psi$ $\Psi e^{-\frac{i}{\hbar}kx} = \int \psi(x) dx$ $k = \frac{\omega}{4\pi \epsilon_0 \epsilon_r}$ $V_k = \sqrt{k \frac{M_e}{R_e}} \vec{F}_m = \vec{B} I \ell = \frac{\mu_1 I_1 I_2}{2\pi d} \ell$
 $E = \hbar\omega$ $\Delta t = \frac{\Delta t'}{\sqrt{1 - v^2/c^2}}$ $4\pi r^2$ $X_L = \frac{U_m}{I_m} = \omega L = 2\pi f L$
 $U_{ef} = \frac{U_m}{r^2} = k \frac{Q_1 Q_2}{r^2}$ $U = \frac{W_{AB}}{Q_E} = \frac{|E_{PA} - E_{PB}|}{Q_E = k \frac{Q}{r^2} Q}$ $|Q_A - Q_B| / T = \frac{4 n_1 n_2}{(n_2 + n_1)^2}$
 $\vec{B} = \mu_1 \frac{NI}{\sqrt{2}} \vec{V} = \frac{mc}{2\pi r m_e}$ $m = N \cdot m_0 = \frac{Q}{N_A} \frac{M_m}{M_e}$ $R_m = \frac{C}{T} f^2$
 $K = P^2 / 2m$ $m_0 = \frac{M_m}{N_A} = \frac{M_r \cdot 10^{-3}}{N_A}$ $\ell_t = \ell_0 (1 + d\Delta t)$ $I = \frac{U_e}{R + R_i} 2^{S \frac{\sin \alpha}{\sin \beta} - \frac{t_g \tau'}{t_g \tau} - \frac{d}{f}}$ $\omega = 2\pi f$
 $\lambda = \frac{h}{\sqrt{2eUm_e}}$ $R = \rho \frac{l}{S}$ $E = mc^2$
 $f_0 = \frac{1}{2\pi} \sqrt{\frac{g}{l}} \quad \Psi_{Q_1} = \sqrt{2/L} \sin \frac{n\pi x}{L}$
 $\oint \vec{B} d\vec{l} = \mu_0 \iint \vec{J} d\vec{S}$ $\vec{S} = \frac{1}{\mu_0} (\vec{E} \times \vec{B})$
 $C(s)$
 $V_k = \sqrt{\frac{3kT}{m_0}} = \sqrt{\frac{3kTN_A}{M_m}} = \sqrt{\frac{3R_m T}{M_r \cdot 10^{-3}}}$
 $\gamma = \frac{\ln 2}{T} \quad F_h = Sh \rho g$
 $\left(\frac{E_\ell}{-}\right) = \frac{2 \cos \vartheta_1 \cos \vartheta_2}{R}$
 $E = \frac{\hbar k^2}{2m} 1$
 $M_\odot = \frac{4\pi^2 r^3}{3G T^2}$
 $f_0 = \frac{1}{2\pi \sqrt{P_L}}$
 $\sigma = \frac{Q}{S_T^2}$
 $P_C = \frac{1 \text{ AU}}{r}$
 $M = \vec{F} d\ell \cos \alpha$
 $S_R = \frac{U}{I} \vec{F}_V = \oint \vec{D} d\vec{S} = Q$
 $\frac{W_2}{R} = U_e I t$
 $F_h = \oint \frac{F_n}{R}$

+

-

×

÷

Reading is a Priority

- ▶ Read the color of the words as fast as you can



Stroop Effect

BLUE

GREEN

YELLOW

PINK

RED

ORANGE

GREY

BLACK

PURPLE

WHITE

BROWN

BLACK



Reading is a Priority



>



Bad Slide

Having too much text can be distracting. It is recommended to limit the number of words that are used on each slide. Otherwise, the audience will be reading instead of listening to you. You should not be competing with your slides. A rule of thumb is to use no more than 30 words per slide. However, less is better.



Better

Having too much text can be distracting. It is recommended to **limit the number of words** that are used on each slide. Otherwise, the audience will be reading instead of listening to you. You should not be competing with your slides. A rule of thumb is to use **no more than 30** words per slide. However, less is better.



Best

< 30 words per slide

Average reading speed

200 words / minute



Avoid Unnecessary Animations

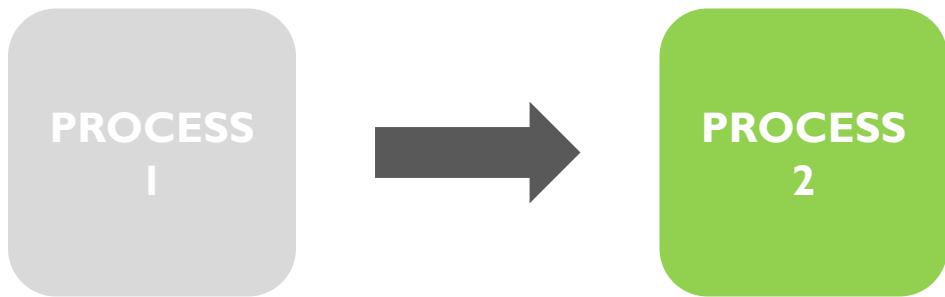


Better

PROCESS
I



Better



Better

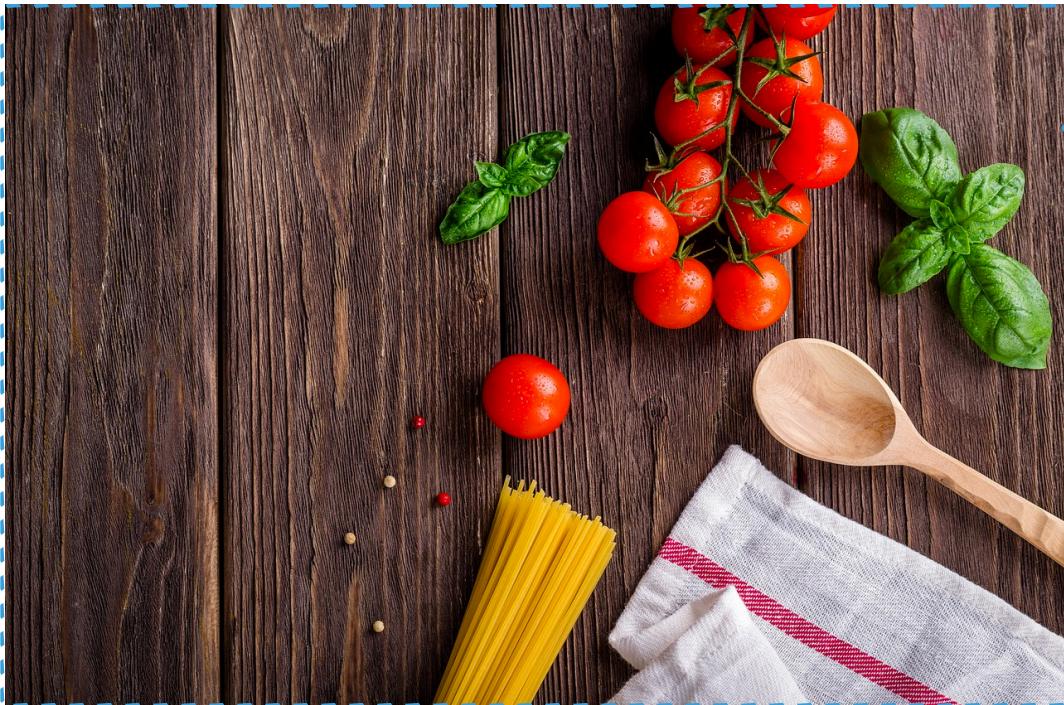


Align Objects



One cannot
think well,
love well,
sleep well,
if one has not
dined well.
Virginia Wolf

Align Objects



One cannot
think well,
love well,
sleep well,
if one has not
dined well.

Virginia Wolf

Slides Summary

- Simple
- Align objects
- Avoid too much text
- Speelchek
- Avoid flashy animations and slide transitions
- 1-2 slides per minute





TEXT



2015 | \$

Font Size

40 point

30 point

20 point

10 point



Contrast

YELLOW TEXT

BLUE TEXT

YELLOW TEXT

BLUE TEXT



Avoid Gradients



Text Summary

- Appropriate Size
- Strong color contrast

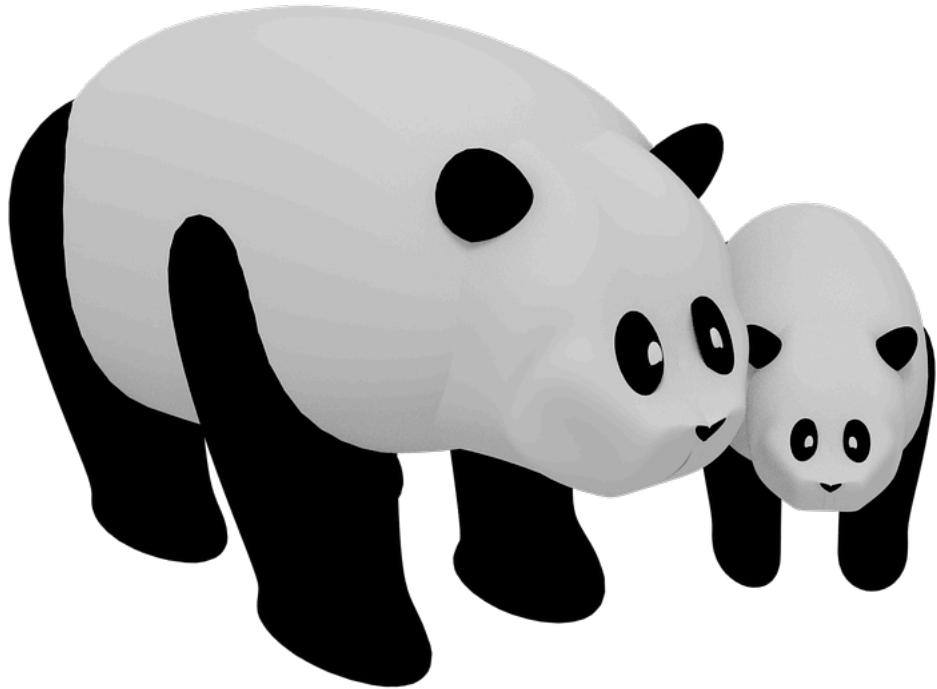




IMAGES

2015 | \$

PANDA

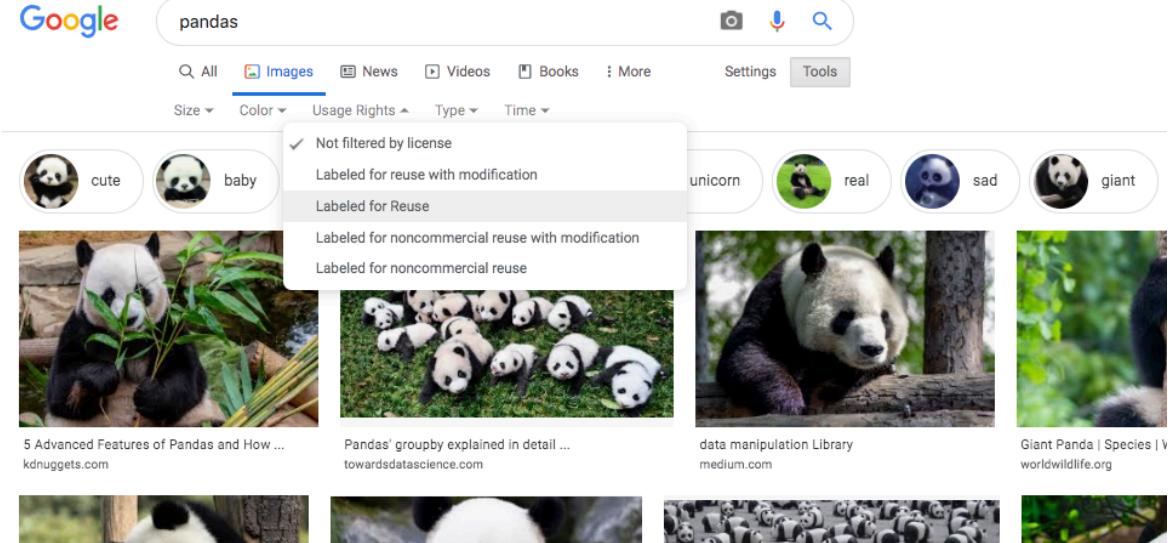


PANDA



Finding Images

- Google

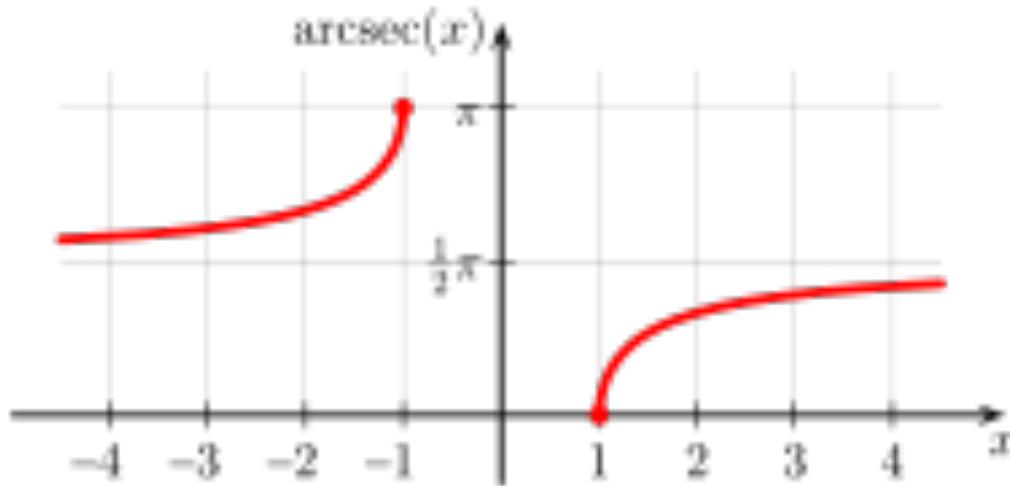


- iStockPhoto

- Noun Project for Icons



Avoid Low Resolution



SVG (Scalable Vector Graphics) format have high resolution
`fig.savefig('filename.svg', format = 'svg')`



Images Summary

- Use high quality images
- Photographs > Clip Art





AUDIENCE

THE | S

Know your audience



Persona

- Age
- Education
- Income
- Race
- Religion



Know your audience



Persona

- Age
- Education
- Income
- Race
- Religion



Role

- Technical
- Business
- Decision Maker



Know your audience



Persona

- Age
- Education
- Income
- Race
- Religion



Role

- Technical
- Business
- Decision Maker



Expertise

- Novice
- User
- Expert



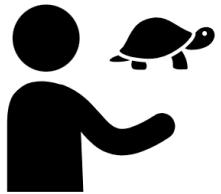


PRES

ENTATION

BY | S

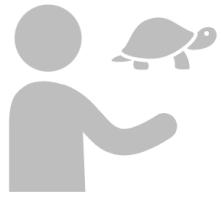
Speaking



Speak slowly
Pause often



Speaking



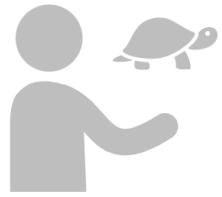
Speak slowly
Pause often



Energetic



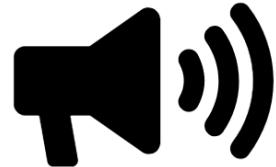
Speaking



Speak slowly
Pause often



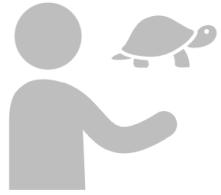
Energetic



Loud and clear



Speaking



Speak slowly
Pause often



Loud and clear



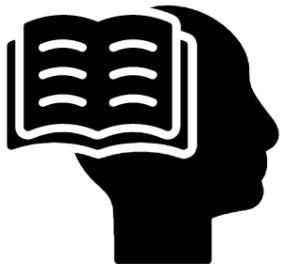
Energetic



Avoid verbal ticks
(ums, ahs)



Presentation



Know



Presentation



Know



Rehearse



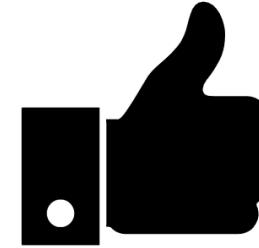
Presentation



Know



Rehearse



Positive



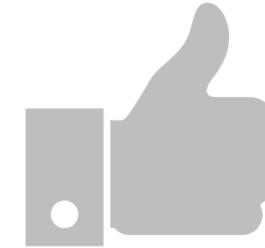
Presentation



Know



Rehearse



Positive



Look at your audience



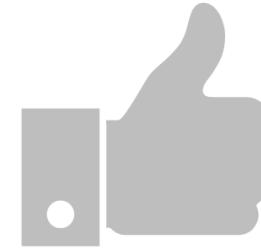
Presentation



Know



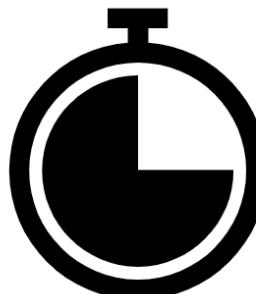
Rehearse



Positive



Look at your audience



Time



CUMULATIVE COVID-19 CASES: ALL STATES





Look at your audience

CUMULATIVE CASES PER 100K: ALL STATES

CASES PER 100K

3/20 3/21 3/22 3/23 3/24 3/25 3/26 3/27 3/28 3/29 3/30

0 50 100 150 200 250 300 350 400

NY	NJ
CT	WA
CA	LA
MA	DC
MI	CO
VT	HI
	NV
	GA
	DE
	FL
	UT
	ID
	WI
	AL
	MD
	AR
	MT
	OH
	WY
	AK
	AZ
	OR
	ND
	HI
	IA
	NM
	KS
	NC
	OK
	VA
	SD
	KY
	TX
	MN
	WV
	NE



Look at your audience

Don't block your slides

CUMULATIVE CASES PER 100K: ALL STATES

CUMULATIVE CASES PER 100K

400
350
300
250
200
150
100
50
0

3/12 3/2

3/20 3/21 3/22 3/23 3/24 3/25 3/26 3/27 3/28 3/29 3/30

NY	NJ
CT	WA
CA	LA
MA	DC
MI	CO
VT	IL
	NV
	GA
	DE
	FL
	UT
	ID
	WI
	ME
	AL
	SD
	MO
	MT
	WT
	AZ
	ND
	IA
	KS
	SD
	KY
	TX
	MN
	WV
	NE

Storytelling



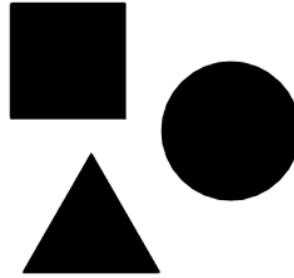
At most 3 takeaways



Storytelling



At most 3 takeaways



KISS
Keep It Stupid Simple



Storytelling



At most 3 takeaways



KISS
Keep It Stupid Simple



Pitch Your Ideas



Storytelling



At most 3 takeaways



Pitch Your Ideas



KISS
Keep It Stupid Simple



FUN!



Takeaway



Presentation
Skills

Math and
Coding Skills



THANK YOU!
