

Presentation Skills

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Three Targets



Good slide presentation



Good slide organization



Good slide content



Good slide presentation

- ✓ Know your audience
- ✓ Connect with audience
- ✓ Start with a strong message
- ✓ Keep slides simple and concise

Connect with Audience

- Smile, relax, and enjoy
- Do not complicate with technicalities
- Interact with audience
- Tell a story

START STRONG

Start with:

a **fact**, or

a **finding**, or

a **question**



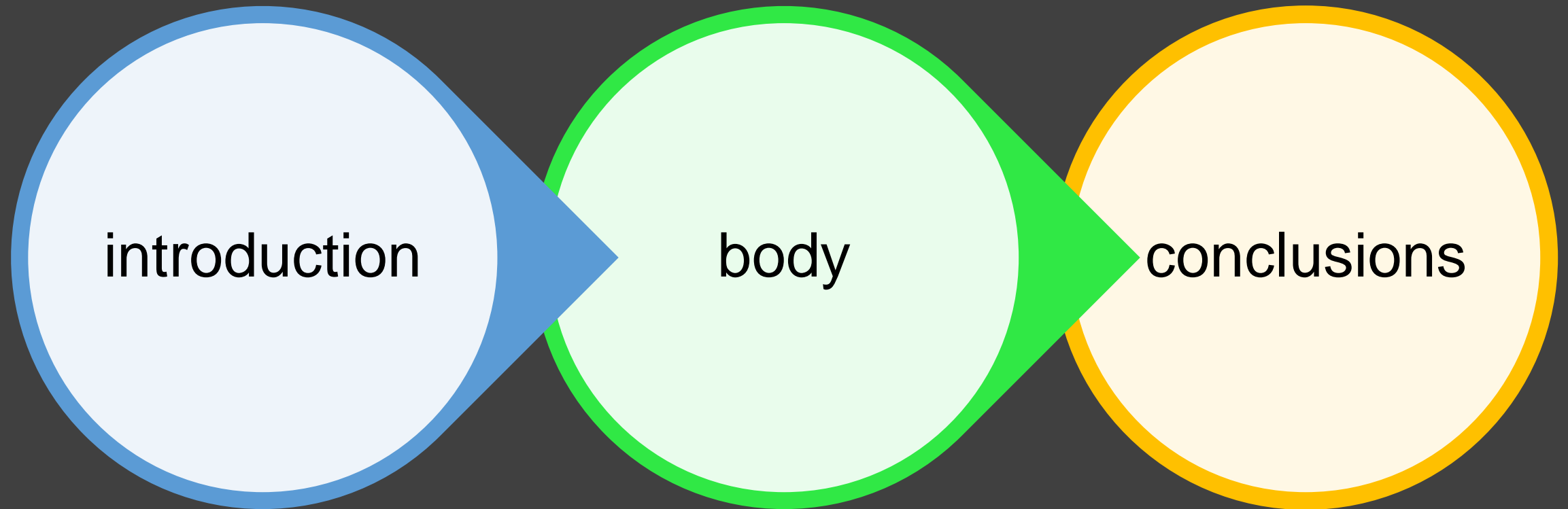
Keep it simple

- ✓ No more than one idea per slide
- ✓ More than **2** and less than **4** points are ideal?
- ✓ Font should be “Arial” and alike and No font size < 30 pts.



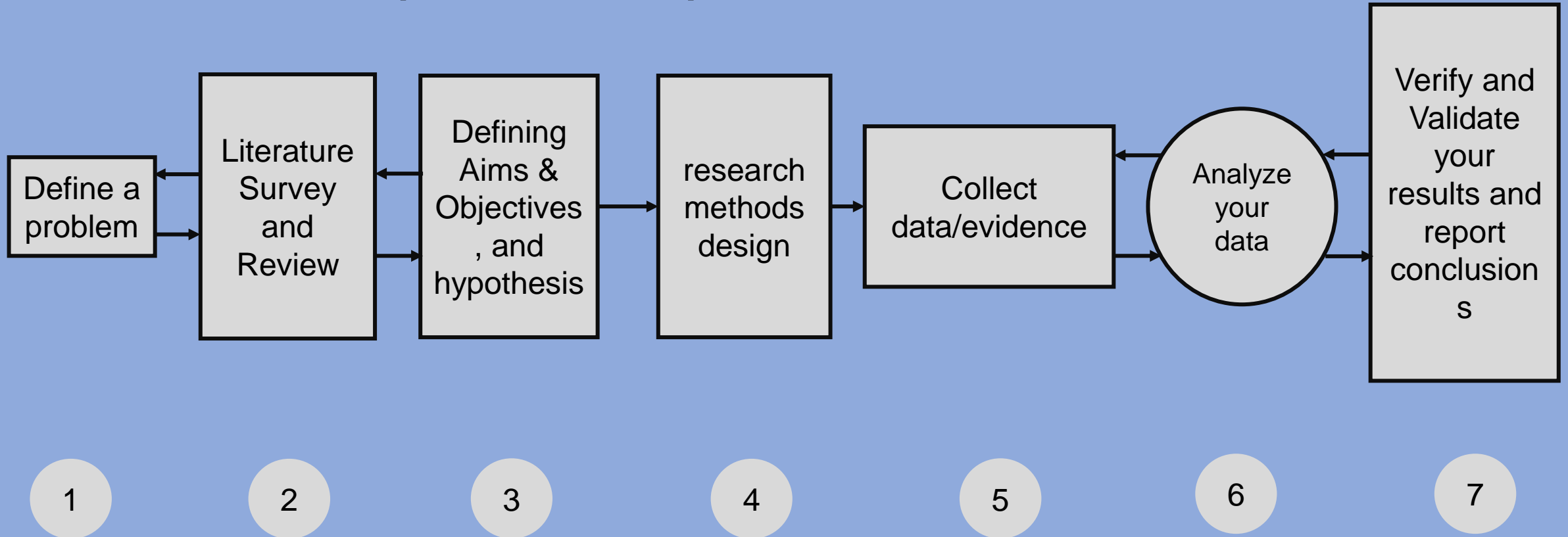
Good slide organization

- ✓ Well structured
- ✓ Slides follow a story
- ✓ Keep slides simple and concise



Recall

Research recipe – 7 Steps





Make sure storyline
is well connected



Good slide content

- ✓ Text, Algorithm, and Math
- ✓ Table, Figure, and Chart
- ✓ Reference

Methodology of the Project

Method 1

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Method 2

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Method 3

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Methodology of the Project

Method 1

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Method 2

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Method 3

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NO Paragraph.

Methodology of the Project

- Point 1
 - Sub method 1
 - Sub sub method 1
 - Sub point 2
 - Sub point 3
- Point 2
 - Sub point 2.1
 - Sub point 2.2
- Point 3
- Point 4
 - Sub point 4.1
 - Sub point 4.2
 - Sub point 4.3
 - Sub point 4.3.1
 - Sub point 4.3.2
 - Sub point 4.2

Methodology of the Project

- Point 1
 - Sub method 1
 - Sub sub method 1
 - point 2
 - point 3
- Point 2
 - Sub point
 - Sub point
- Point 3
- Point 4
 - point 4.1
 - point 4.2
 - Sub point 4.3
 - Sub point 4.3.1
 - Sub point 4.3.2
 - Sub point 4.2



**NO dense
bullet points.**

Algorithm/ Flowchart

Step 0: Choose Solution Search Space R, Objective function to be minimized f.

Step 1: Select Initial point S_0 , Initial Temperature T_0 , Temperature reduction coefficient t_r . Assign S_0 to S_{best} .

Step 3: Generate a neighbor solution $S \leftarrow N(S_0)$

Where, $N(S_0) \leftarrow S_0 + r \cdot V$. and $r \leftarrow [-1, 1]$. Accept/Reject the newly generated solution/point according to the Metropolis criterion.

$$\delta = f(S) - f(S_0)$$

if $\delta < 0$ then

$$S_0 \leftarrow S \text{ (accept new point)}$$

else

generate a random number $r \leftarrow [0, 1]$

if $r < \exp(-\delta/T_0)$

$$S_0 \leftarrow S \text{ (accept new point)}$$

if $f(S_0) < f(S_{best})$

$$S_{best} \leftarrow S_0$$

Step 4: Go to step 3 until max loop limit.

Step 5: $T_0 \leftarrow T_0 \cdot t_r$. (reduce temperature) go to step 3 until stopping criterion satisfied.

Algorithm/ Flowchart

Step 0: Choose Solution Search Space R , Objective function to be minimized f

Step 1: Select Initial point S_0 , Initial Temperature T_0 , Temperature reduction coefficient α . Assign S_0 to S_{best} .

Step 3: Generate a neighbor solution $S \leftarrow N(S_0)$

Where, $N(S_0) \leftarrow S_0 + r \cdot V$. and $r \leftarrow [-1, 1]$. Accept/Reject the newly generated solution

$\delta = f(S) - f(S_0)$

if $\delta < 0$ then

$S_0 \leftarrow S$ (accept new point)

else

generate a random number $r \leftarrow [0, 1]$

if $r < \exp(-\delta/T_0)$


$S_0 \leftarrow S$ (accept new point)

if $f(S_0) < f(S_{best})$

$S_{best} \leftarrow S_0$

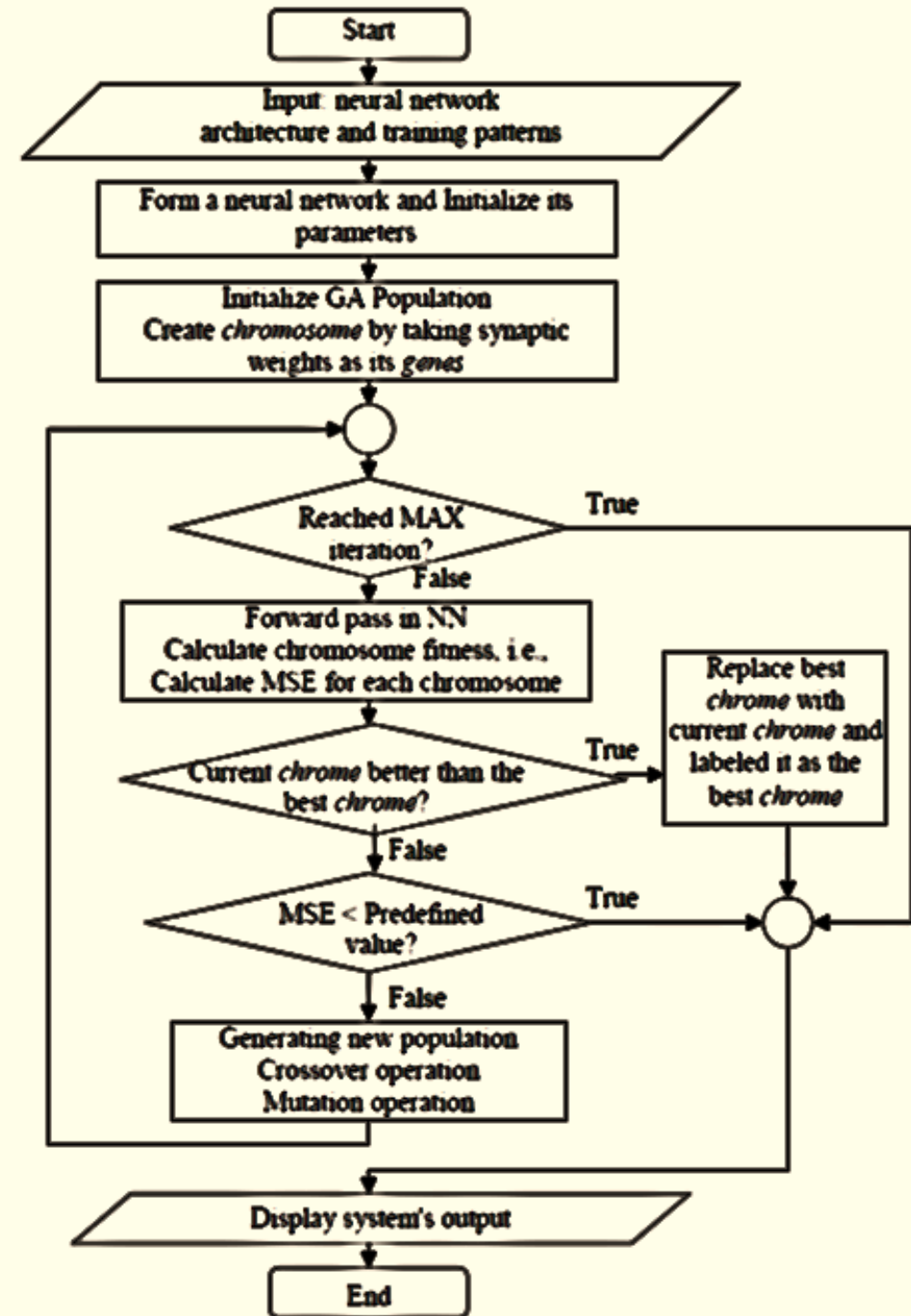
Step 4: Go to step 3 until max loop limit.

Step 5: $T_0 \leftarrow T_0 \cdot \alpha$. (reduce temperature) go to step 3 until stopping criteria

- 
- Avoid dense algorithm
 - If you must? Keep it Simple
 - Focus on significant part only

Algorithm/ Flowchart

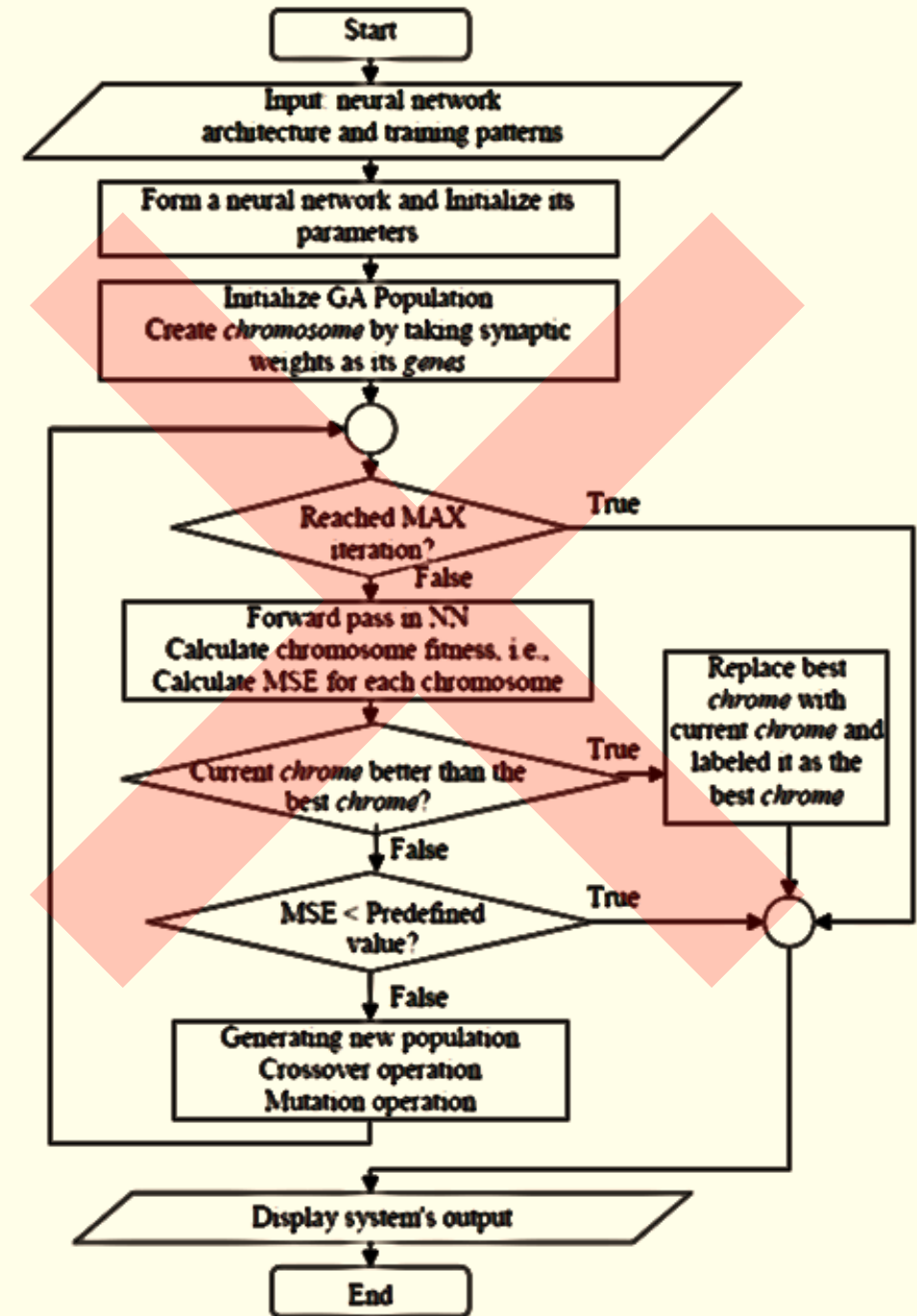
- This example is a copy paste image
- Unclear
- Not readable
- No one have time to read
- Can you explain it in 30 sec?



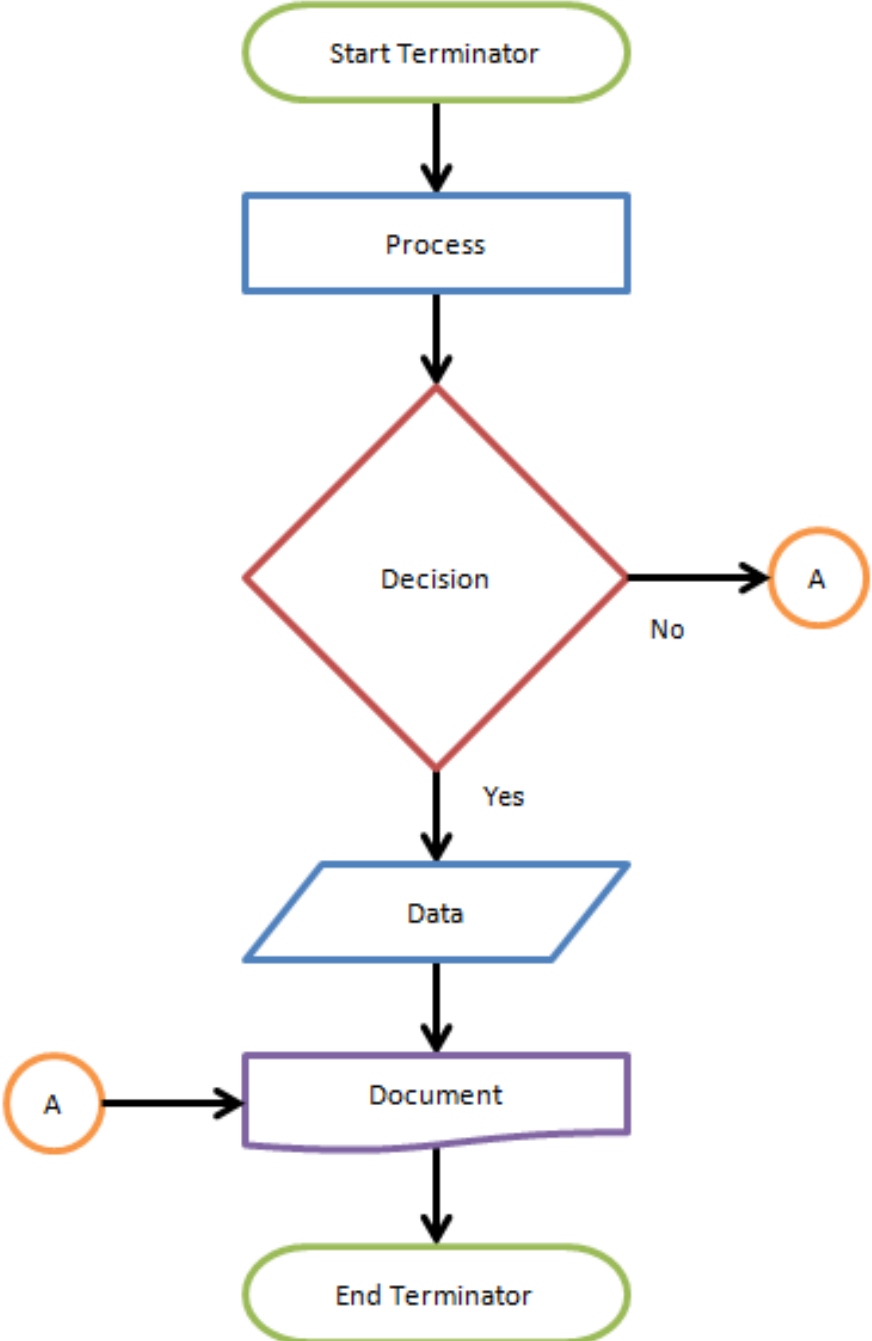
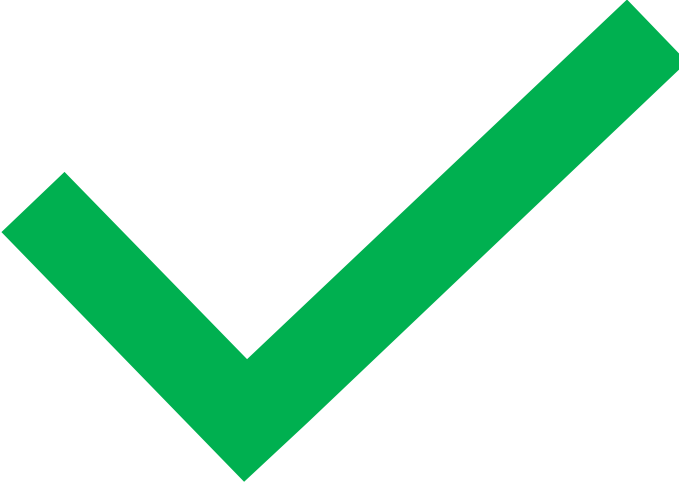
Algorithm/ Flowchart



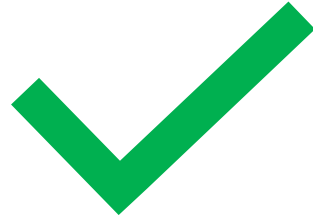
- This is a bad example
- Make it simple
- Focus on significant parts only



Algorithm/ Flowchart



Avoid Equations



If you must? Keep it Simple, For example:

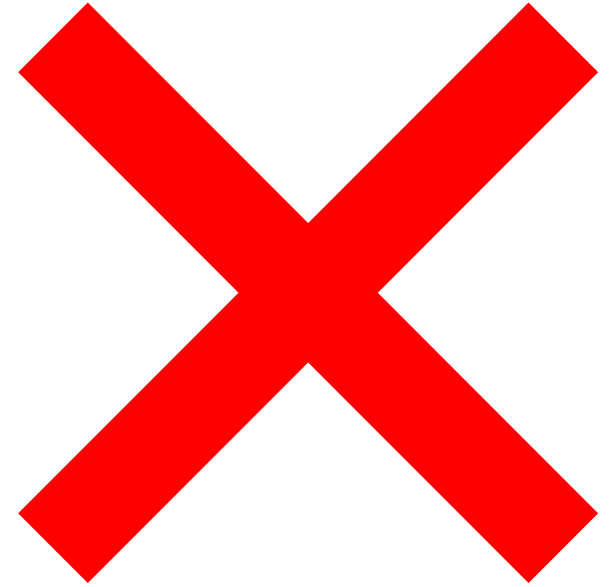
Einstein's theory of mass–energy equivalence is expressed as:

$$E = mc^2$$

E - Energy, m - mass, c - speed of light

Tables

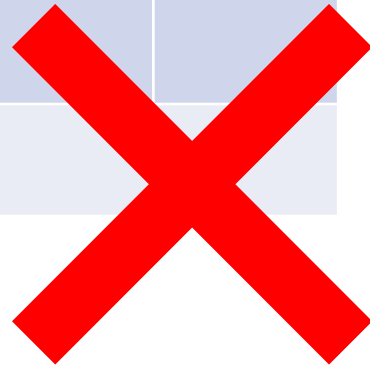
- Avoid Table
- If you must, keep simple
- Highlight significant results



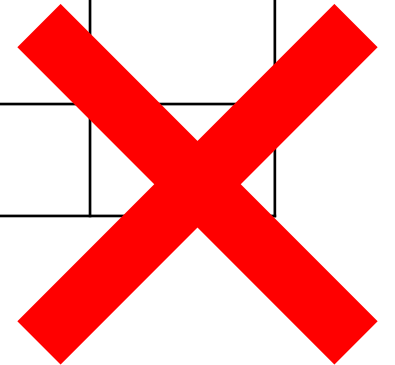
Tables

These examples are horrible!

A	B	C	D	E
K	32	58		
L		fd		
M		dg		
N		df		



A	B	C	D	E
K	32	58		
L		fd		
M		dg		
N		df		



Some text some text some text some text some text some text some text some
text some text some text some text some text some text some text

Tables




Tables easily become unreadable

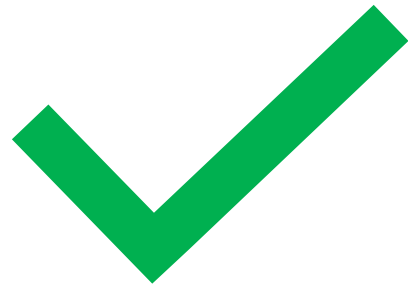
Algorithm	Error 1	Error 2
Algorithm A	70.9	19.5
Algorithm B	60.5	18.5
Algorithm C	23.2	3.2
Algorithm D	24.5	4.6
Algorithm E	110.0	35.8

Tables


Arrange a table for best readability

Algorithms	Error 1	Error 2
Algorithm E	110.0	35.8
Algorithm A	70.9	19.5
Algorithm B	60.5	18.5
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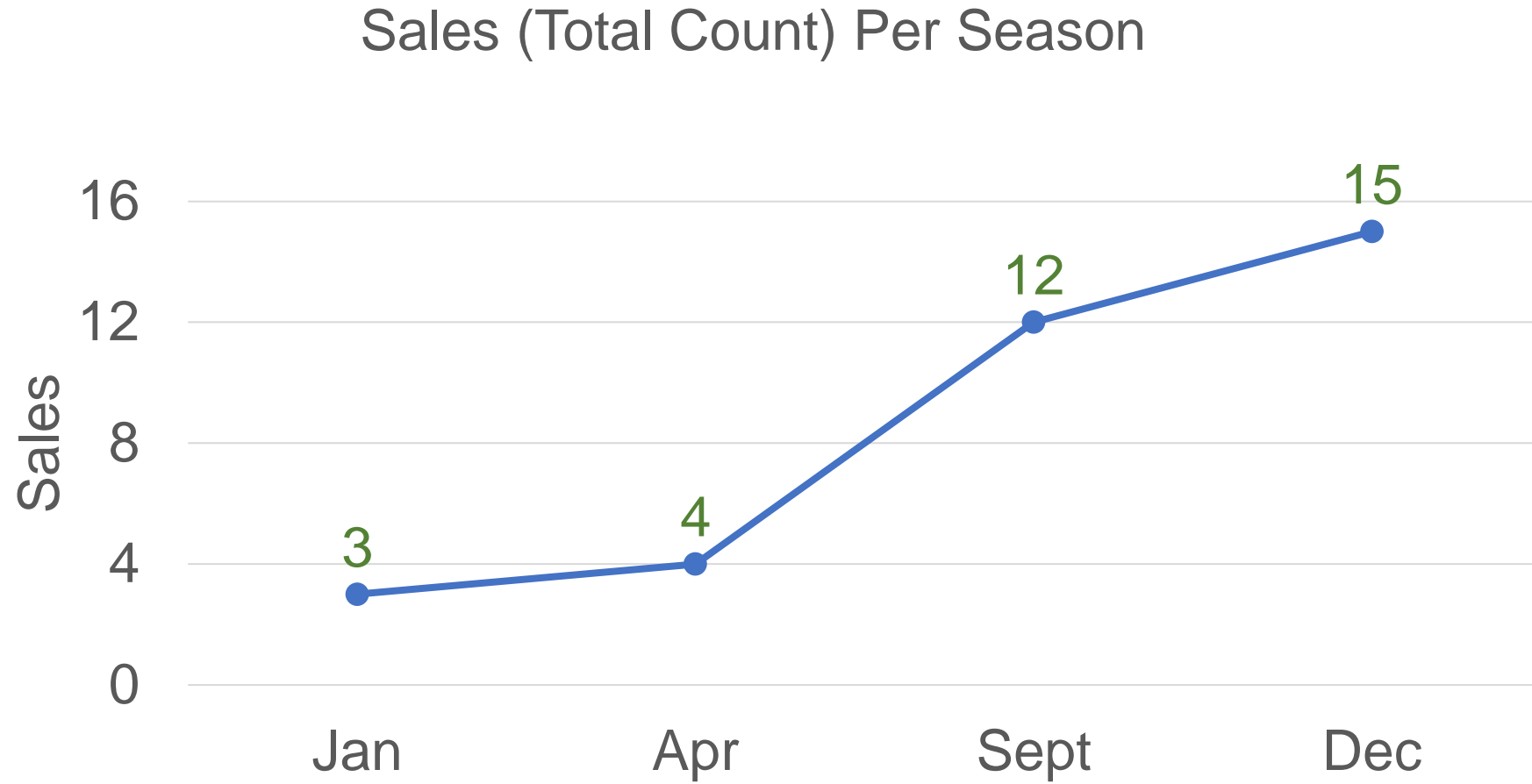
Tables



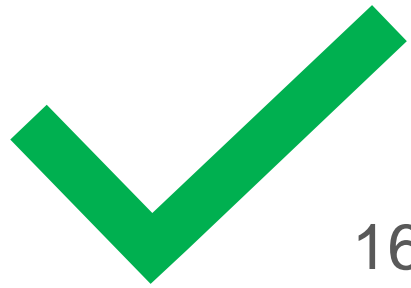
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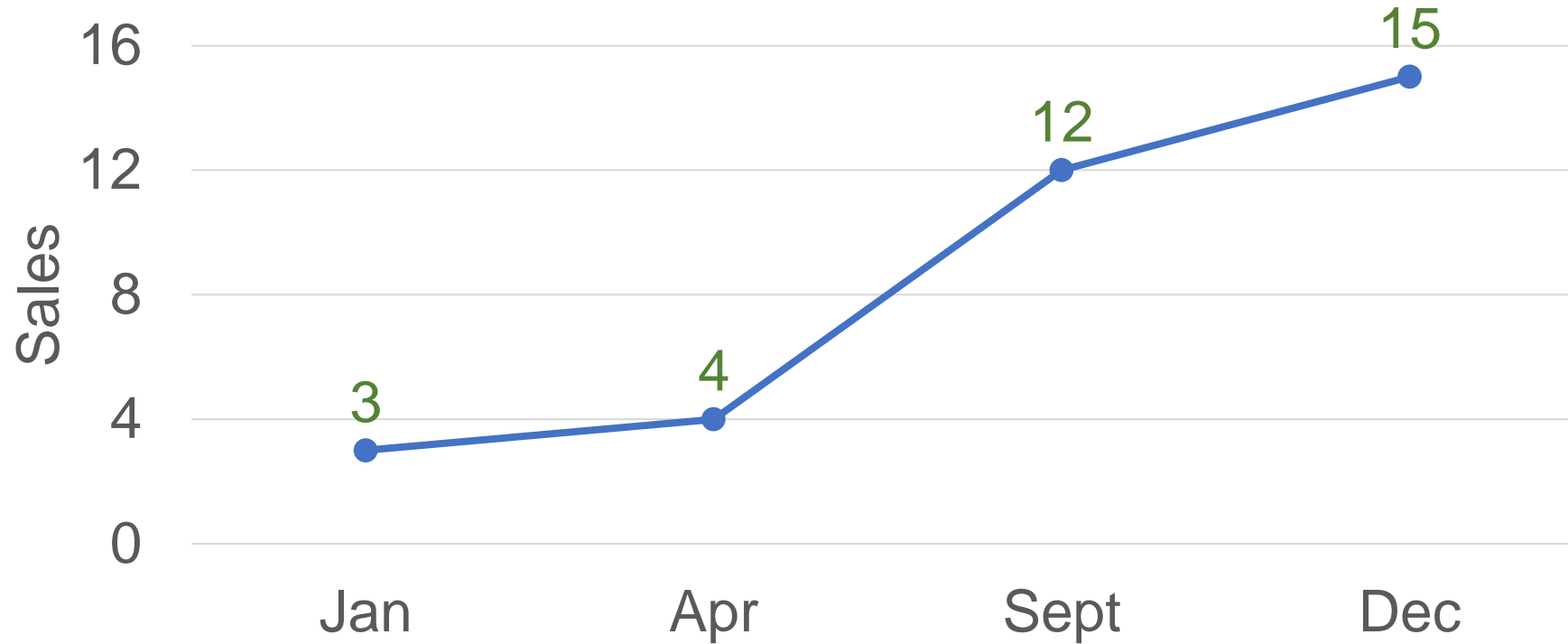
Graphs



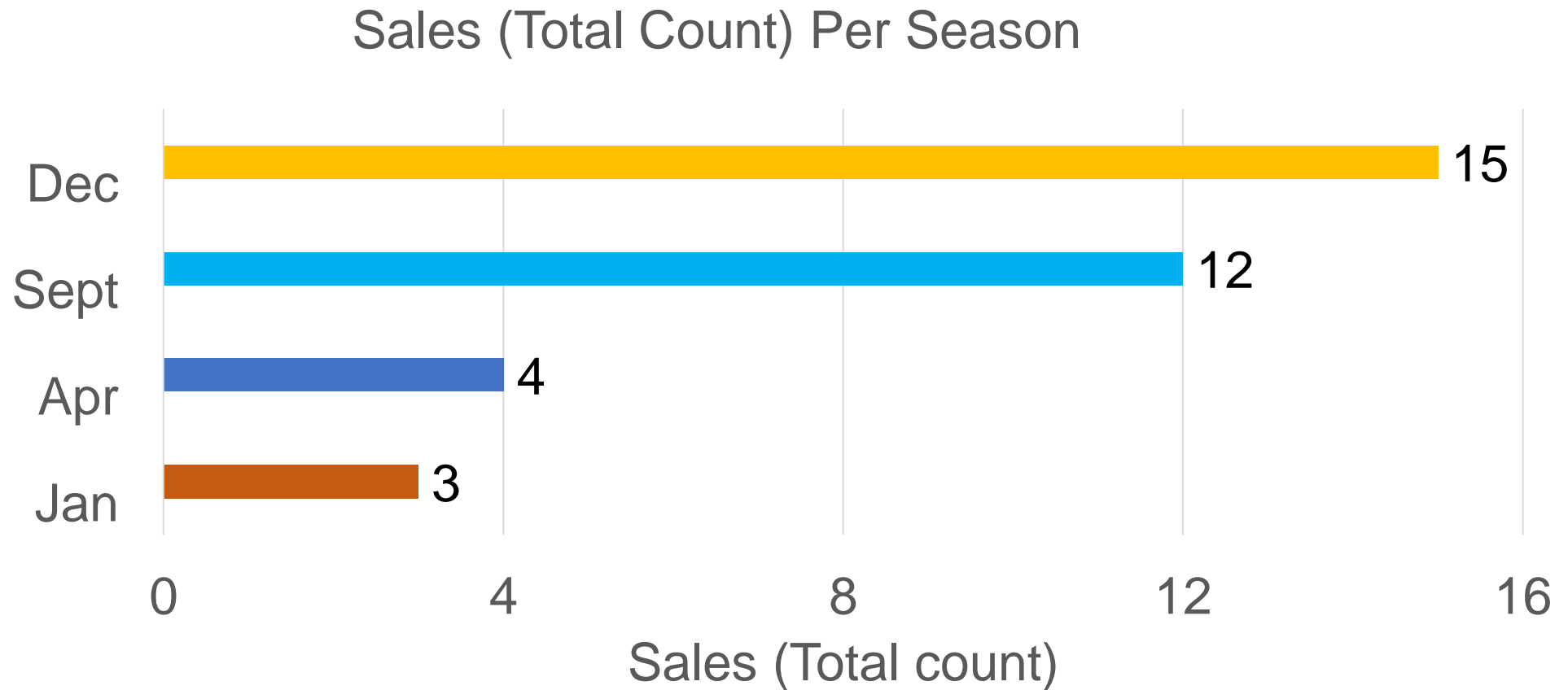
Graphs



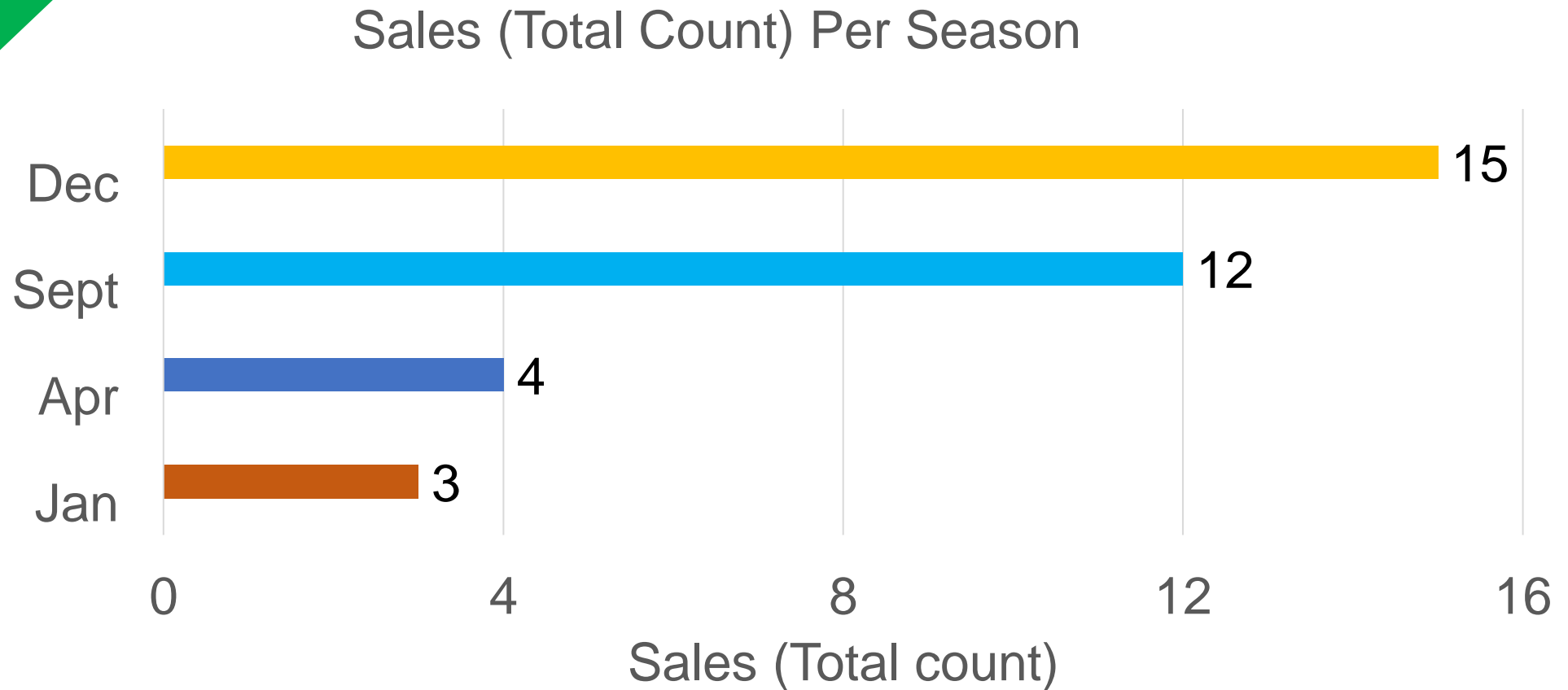
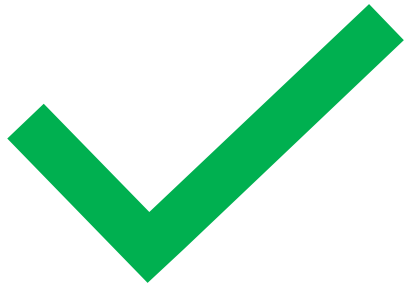
Sales (Total Count) Per Season



Graphs



Graphs



Reference

- Keep only significant reference
- Only the ones that matter to your presentation content
- Use a uniform style for all reference list
- Cite if you have used any direct quotes in your slide
- APA style suits best (personal recommendation)

Questions?