

San Diego police calls for service Analysis

From 2019 to 2023

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Background

1,500,000

This is the number of 911 calls received by San Diego Police Department (SDPD) in the year 2019. On average, SDPD fielded one call every 21 seconds

Which geographic area generates the highest number of 911 calls?

What are the most common categories or types of calls received by the 911 service?

What percentage of the 911 calls is related to life-threatening emergencies?

During what times of day does the 911 service receive the majority of its calls?

Dataset and Methodology overview

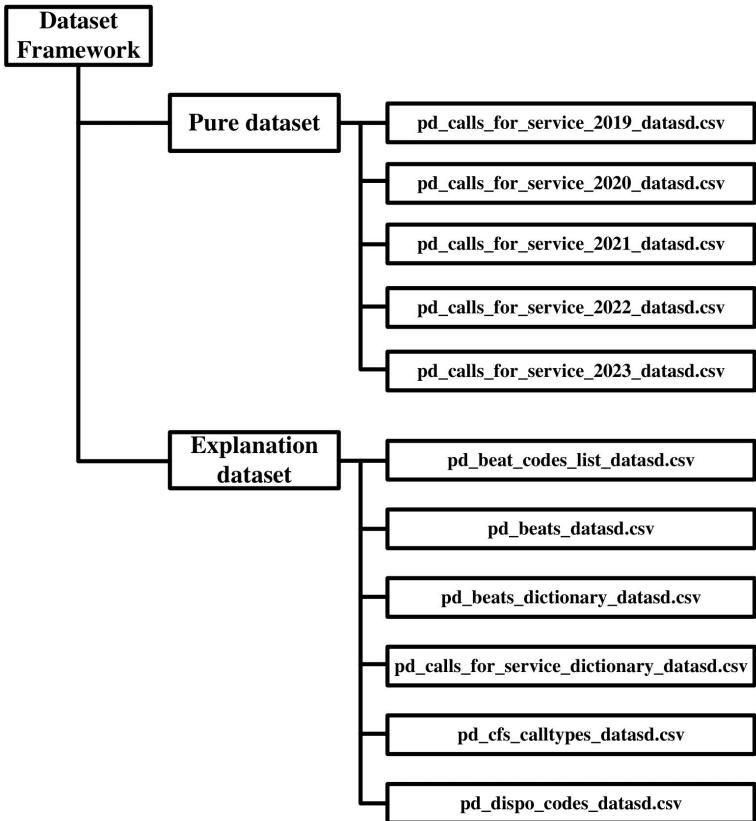
Data overview

- The datasheet we used are downloaded from City of San Diego website, which includes calls from 2019 to 2023.
- The combined datasheet has **~2.7million** rows, henceforth cleaning is necessary.

Disposition Codes, current

This is a preview. If you would like to view the full resource, please download it above.

DISPO_CODE	DESCRIPTION
X	DISPATCHED ALARM CALL CANCELLED BEFORE UNIT ONSCENE
A	ARREST MADE
AB	ARREST MADE, BOARD AND SECURE
AHR	ARREST MADE, HIGH RISK (CRISIS RESPONSE TEAM)
R	REPORT
RB	REPORT TAKEN, BOARD AND SECURE



Cleaning

intersecting	call_type	disposition	beat	priority
NaN	AU1	DUP	441	1
NaN	415	K	321	2
NaN	FD	K	523	2
NaN	AU1	W	511	1
NaN	586	CAN	523	4



call_type	classification	neighborhood	priority
ALL UNITS INFORMATION-PRI 1	DUPLICATE CALL, XREF'D	Mountain View	1
DISTURBING PEACE	NO REPORT REQUIRED	Grantville	2
FLAG DOWN/FIELD INITIATED	NO REPORT REQUIRED	Gaslamp	2
ALL UNITS INFORMATION-PRI 1	NO DISPATCH OR INCIDENT CANCELLED PRIOR TO DISP...	Barrio Logan	1
ILLEGAL PARKING	CANCEL	Gaslamp	4

Empty columns gone, opaque police jargons changed into human readable language (Ex: Beat -> Neighborhood)

Data Analysis and Visualization

Call Type and categories

TRAFFIC STOP FROM THE MOBILE COMPUTER
ALL UNITS INFORMATION-PRI 2
ILLEGAL PARKING SPECIAL DETAIL
UNK EMERG, HANG UP/OPEN LINE IN A MEETING/OUT OF SERVICE
BATTERY

DISTURBING PEACE
SELECTIVE ENFORCEMENT

PRISONER IN CUSTODY DISTURBING PEACE NOISE ONLY REQUEST FOR TOW TRUCK
CAR THEFT REPORT DISTURBING PEACE NOISE ONLY REQUEST FOR TOW TRUCK

TRAFFIC STOP WITH PLATE
TRESPASSING NO DETAIL ACCIDENT PED STOP/FIELD INTERVIEW

BURGLARY ALARM MENTAL CASE

DISTURBING PEACE W/VIOLENCE

LOUD PARTY CHECK THE WELFARE

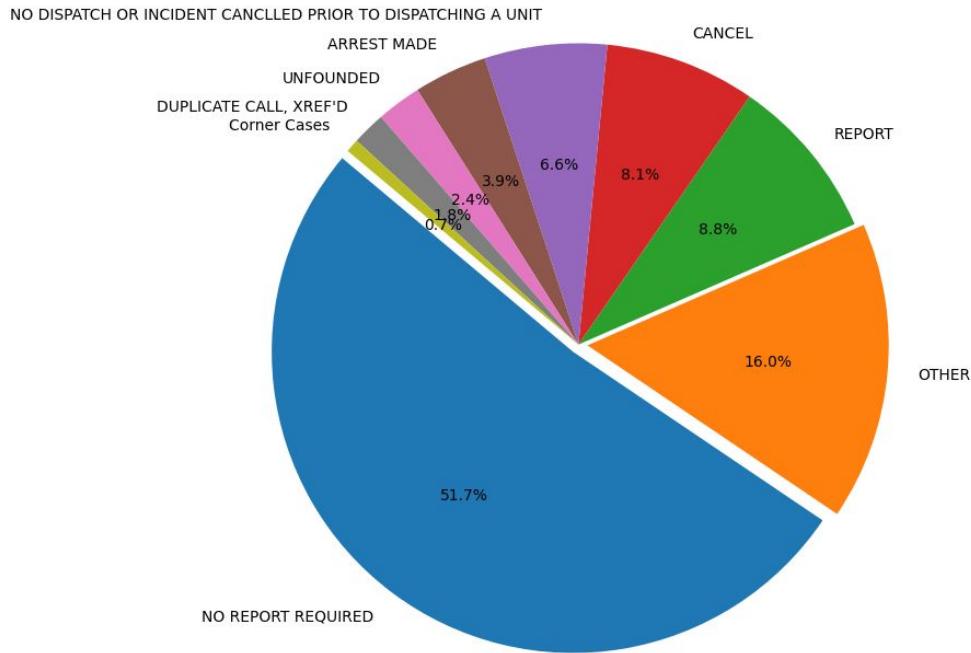
FLAG DOWN/FIELD INITIATED FOLLOW-UP BY FIELD UNIT HAZARDOUS CONDITION

INFORMATION FOR DISPATCHERS



Case Disposition

Proportion of each classification category

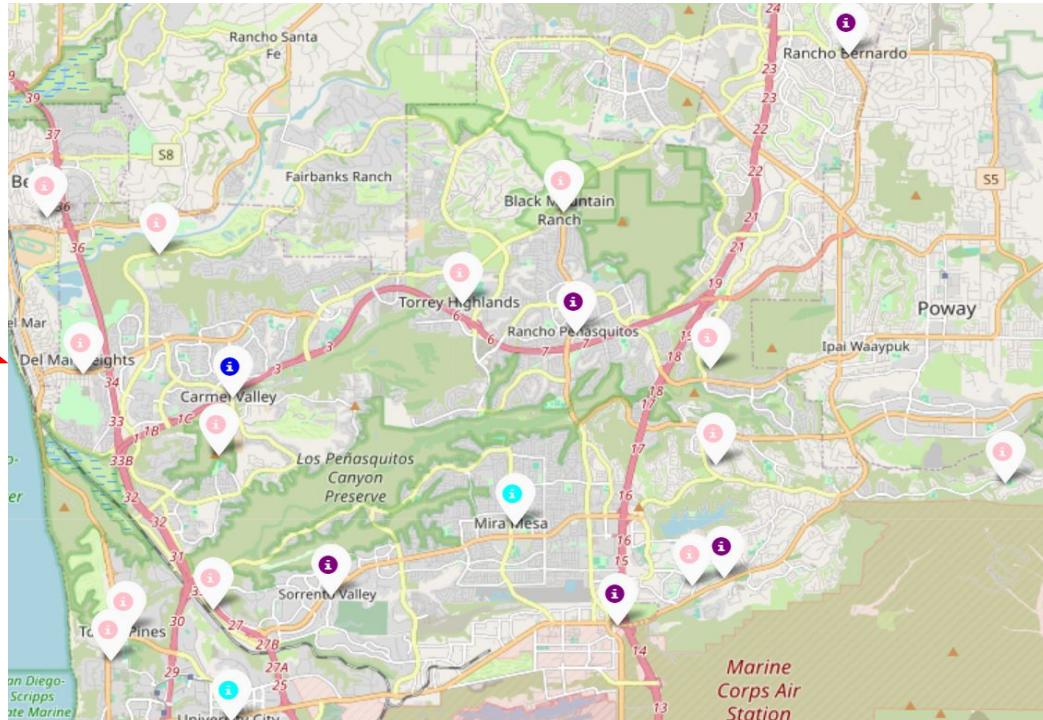
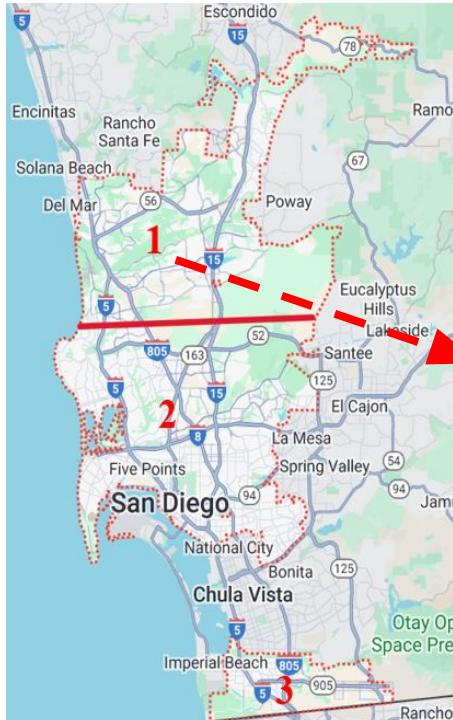


NO REPORT REQUIRED	1385288
OTHER	429195
REPORT	237040
CANCEL	216838
NO DISPATCH OR INCIDENT CANCELLED PRIOR TO DISPATCHING A UNIT	176132
ARREST MADE	105668
UNFOUNDED	64290
DUPLICATE CALL, XREF'D	48150
STOLEN VEHICLE OR RECOVERED VEHICLE	9295
DISPATCHED ALARM CALL CANCELLED BEFORE UNIT ONSCENE	5819
NO FURTHER ACTION, HIGH RISK (CRISIS RESPONSE TEAM)	3501
NO REPORT REQUIRED, BOARD AND SECURE	205
OTHER, HIGH RISK (CRISIS RESPONSE TEAM)	183
DUPLICATE CALL	105
REPORT TAKEN, BOARD AND SECURE	79
ARREST MADE, BOARD AND SECURE	39
REPORT, HIGH RISK (CRISIS RESPONSE TEAM)	31
ARREST MADE, HIGH RISK (CRISIS RESPONSE TEAM)	7

“RATIO” Principle

1. Resource Allocation to manage cost
2. Tactics to effectively prevent crime
3. Investment in professional teams and equipment
4. Optimization towards streamlined process

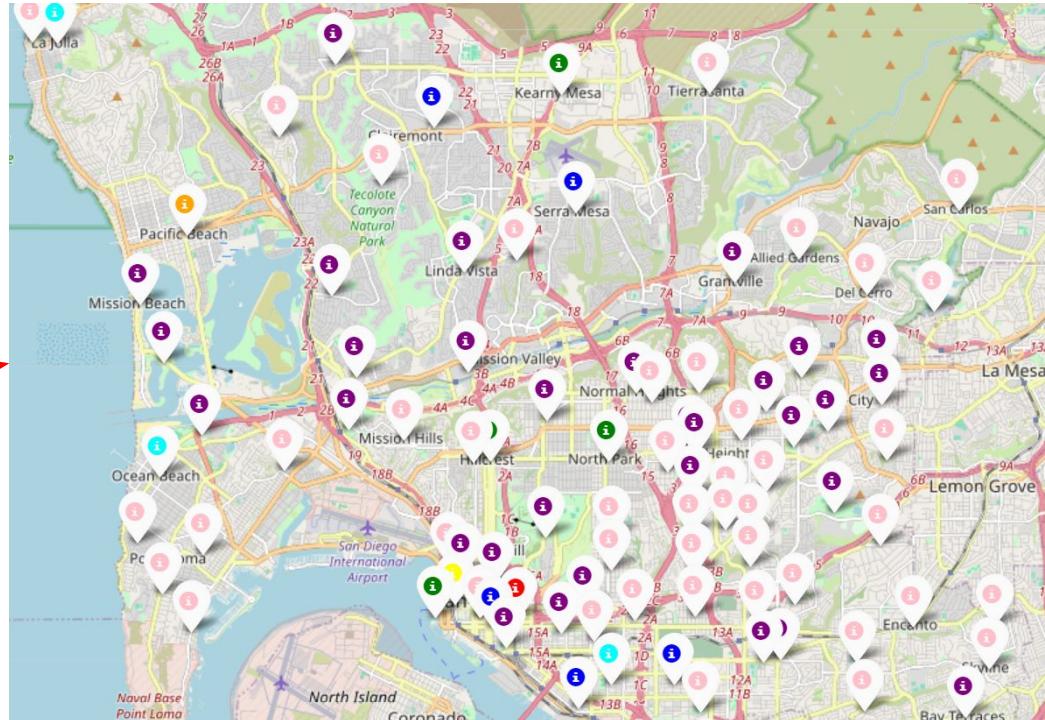
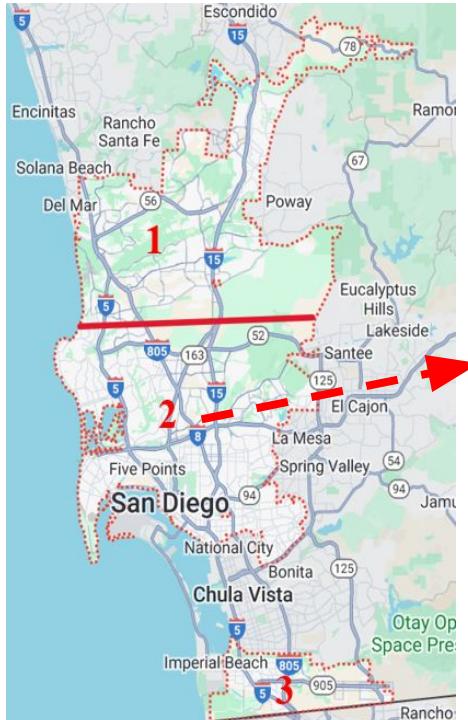
Map visualization



Notation:

- 0 - 15,000
- 15,001 - 30,000
- 30,001 - 45,000
- 45,001 - 60,000
- 60,001 - 75,000
- 75,001 - 90,000
- 105,001 - 120,000
- 135,001 - 150,000

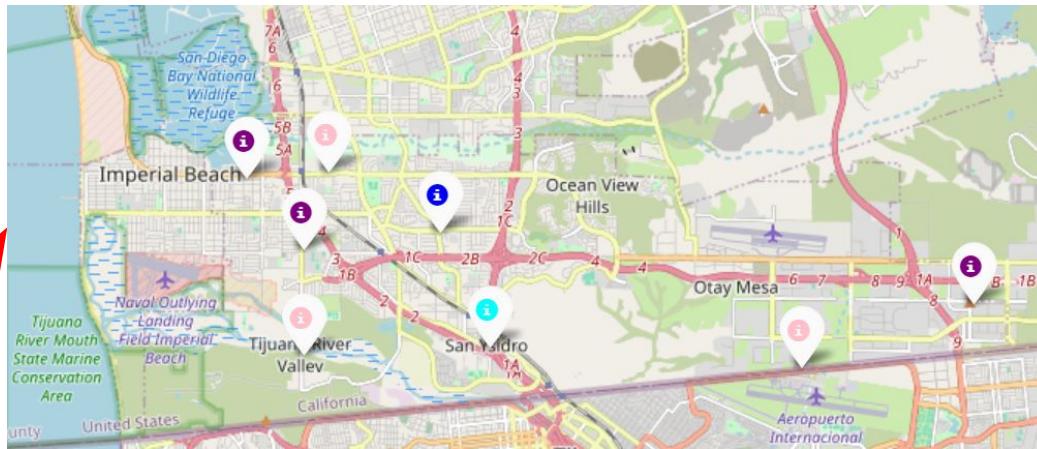
Map visualization



Notation:

0 - 15,000	●
15,001 - 30,000	●
30,001 - 45,000	●
45,001 - 60,000	●
60,001 - 75,000	●
75,001 - 90,000	●
105,001 - 120,000	●
135,001 - 150,000	●

Map visualization



Notation:	
0 - 15,000	●
15,001 - 30,000	●
30,001 - 45,000	●
45,001 - 60,000	●
60,001 - 75,000	●
75,001 - 90,000	●
105,001 - 120,000	●
135,001 - 150,000	●

Conclusions

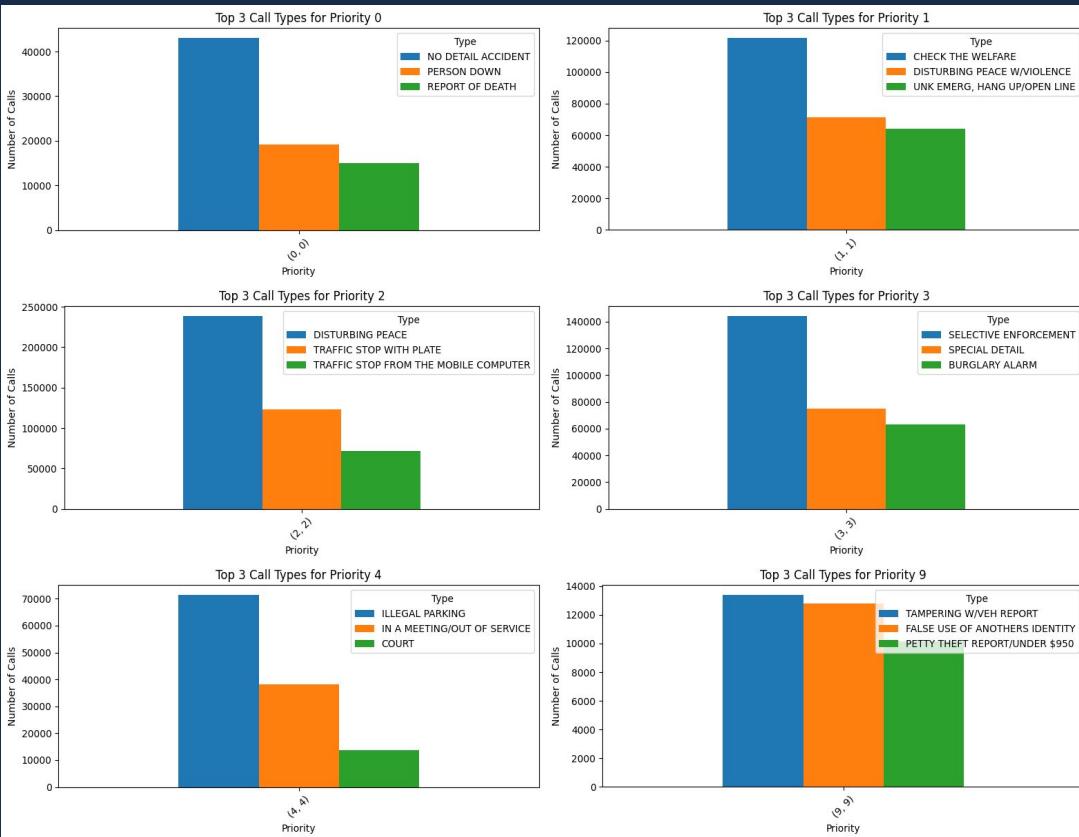
What we got!

- 1 Identification of peak times and areas with high call volumes.
- 2 Distribution of call types and their dispositions and insights into potential correlations between call characteristics and geographic locations.
- 3 Recommendations for optimizing resource allocation based on peak times and hotspot areas.
- 4 Insights into the effectiveness of current policing strategies in different areas and potential suggestions for targeted interventions to address specific types of incidents.



Thank you!

Priority



Priority

0

Imminent threat
to life

1

Serious crimes in
progress or a threat to
life

2

Less serious crimes in
which there is no threat
to life

3

Minor crimes or
requests for service
which are not urgent

4

Minor requests for
police service

9

Limited or no suspect
information

Check out the following pages for more examples of slide layouts in this template!

TITLE SLIDE WITH PHOTO

Swap out the photo to make it your own.

This is a statement.

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- To update the logo on one of the cover designs, select the logo image and click **Change Picture** from the **Picture Format** tab. To adjust the crop, click the arrow on the **Crop** button and choose **Aspect Ratio/Original** or **Fit**.
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Simple Agenda Title

- Topic 1
- Topic 2
- Topic 3
 - Sub-Topic
- Topic 4

Section Title Goes Here

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- When routing to stakeholders for review, consider saving the file as a PDF to prevent edits that could introduce formatting issues.

Stylish Agenda Title Goes Here

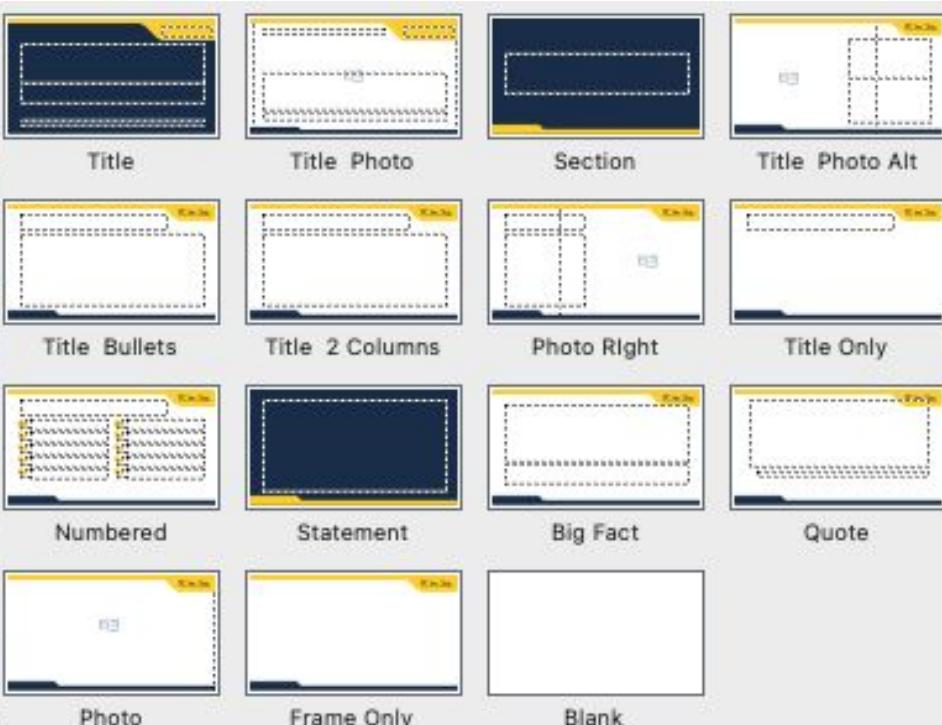
-  Item number one goes here
1
-  The second item goes here
2
-  Third item goes here
3
-  Item number four goes here
4
-  A fifth item can go here
5
-  Item six goes here
6
-  Page can fit up to ten agenda items
7
-  Extra items can be removed
8
-  Penultimate item goes here
9
-  Final item goes here
10

Fonts

- This Template uses **Teko** and **Source Sans 3** (previously called Sources Sans Pro). Both are approved brand fonts available for free. Teko can be downloaded via [Fontshare](#). Source Sans 3 can be downloaded via [Google Fonts](#).
- Font files have also been included in the Zip file for this template for convenience.
- Be sure to install the needed fonts before using this template.
- When pasting in content from other sources, use **Paste and Match Style** to prevent unintended style and font changes.

Template Layouts

- There are 18 individual slide layouts in this template design. To access these layouts, click the arrow on the **New Slide** button in the Home tab and choose a layout from the dropdown.
- To change the layout on a selected slide, select the **Layout** button from the Home tab.
- Footers can be updated universally by selecting **View/Header and Footer** from the top menu.

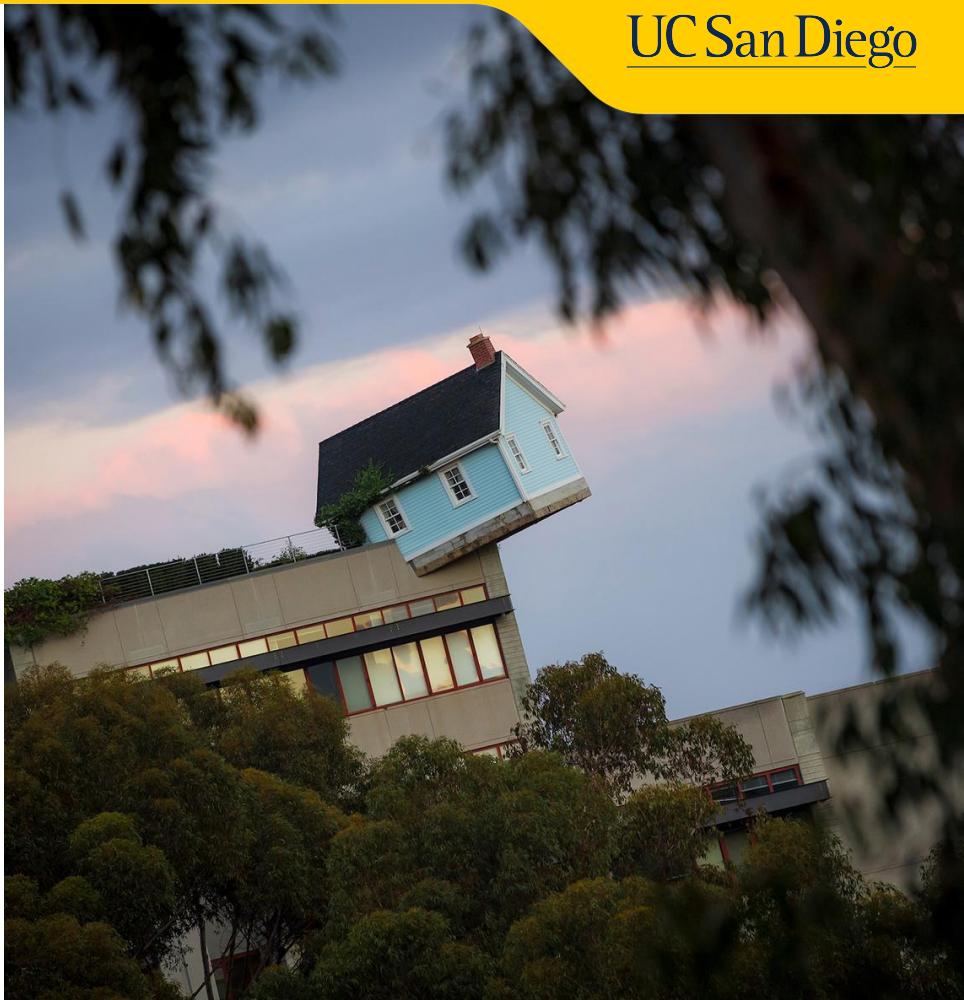


100%

of stats look cooler with a bold type treatment

Slide Title Here

- Bulleted text goes here.
- Be mindful of the space and avoid overlapping text with other design elements.
- You can swap in your own photo to the right.



Slide Title Goes Here

Content goes here. There is room for short sentences or paragraphs, whatever suits your content needs.

Be mindful of the space and avoid overlapping text with other design elements.

You can also link to a website, such as ucsd.edu.

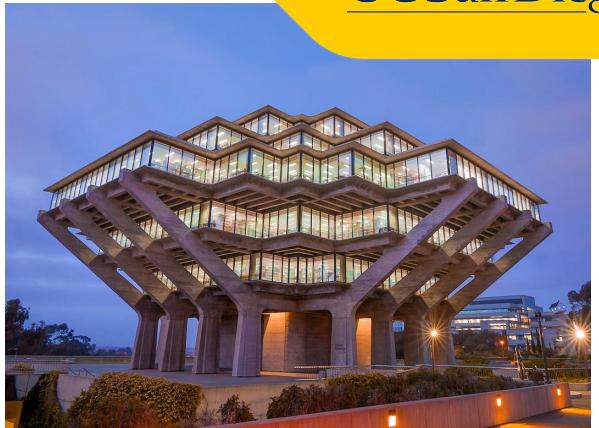
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“It is a truth universally acknowledged that a person with a brilliant idea must be in want of a brilliant presentation template.”

Unknown

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Slide Title Here on Multiple Lines

This is the subtitle. Both can be long or short as needed.

