PREPIAIKS New perspectives for emergency managers











Visual + Effective Communication for Emergency Information

Claudine Jaenichen



Agenda

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Introductions (5 minutes)

Watch the PrepTalks (20 minutes)

Discussion (30 minutes)



Introduction



- Claudine Jaenichen is an information designer specializing in the relationship between design and cognition. Her recent work in applied design research serves a precise communicative role for, or in, cognitive demanding events.
- She is an associate professor of design at Chapman University. She also serves on the Executive Board for the Design Network for Emergency Management, the Board of Governors for the Communication Research Institute, and the Executive Board for the International Institute of Information Design.



Topic 1: Human Psychology and Emergencies



- **Denial:** Our brains want to normalize situations to fit what is happening into previous experiences. If we don't have training or experience with a specific emergency, we will create a non-disaster context that seems to make sense.
- **Deliberate:** The deliberation, or "milling," phase is when people want to confirm the danger and potential actions with others and seek more information.
- **Decide:** This moment occurs when individuals accept the reality of the situation and decide to act (or not).



Topic 1: Human Psychology and Emergencies



- How can community leaders provide opportunities for people to practice evacuation plans?
- If schools are conducting drills how are students encouraged to have their families talk about and practice drills?
- How do your messages and your outreach encourage individuals' belief that they are empowered to act, and a belief that those actions can save their lives?



Topic 2: Visual Design Basics

Visual design is using rules for images, colors, fonts, and other elements to successfully communicate with a purpose consistently and repeatedly.

Design Elements

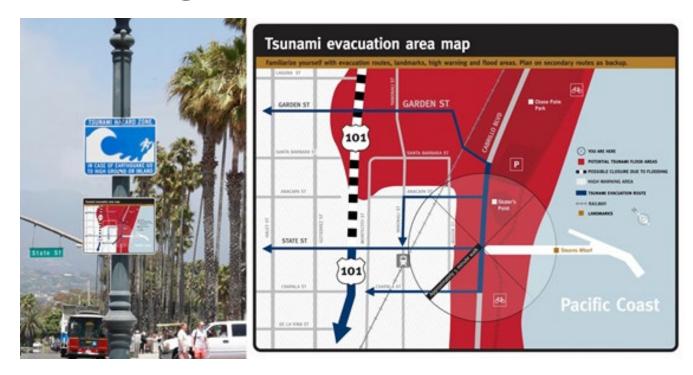
- <u>Lines</u>: connect two points and can be used to help define shapes, make divisions, and create textures.
- <u>Shapes</u>: self-contained areas. To define an area, the graphic artist uses lines, color, and/or texture.
- <u>Color palettes</u>: used to differentiate items, create depth, add emphasis, and/or help organize information.

Design Principles

- <u>Unity</u>: all elements on a page visually or conceptually appear to belong together.
- Gestalt: helps users perceive the overall design as opposed to individual elements.
- <u>Space</u>: Incorporating space into a design helps reduce noise, increase readability, and/or create illusion.



Topic 2: Visual Design Basics



 How are your evacuation maps, infographics, and other visual communication materials developed?



 Identify ways that you can include the visual standards adopted by the Design Network for Emergency Management in your communication materials.



Topic 3: Improve Evacuation Information with Personas

A persona is a composite representation of a segment of the population that you want to consider when planning for evacuation, alerts, or sheltering, just to name a few.

For emergency management, develop personas by asking questions like:

- What are the socio-economic characteristics of this persona?
- What is their access to alerts and warnings?
- What are some challenges they face in the event of an evacuation warning?
- Do they have children? To what extent are they aware of the evacuation plans of their children's schools and/or caregivers?
- What is their prior experience or training?
 - Identify if another government office in your jurisdiction developed personas for your community.



 Consider a project to create, or expand on existing, personas for use in all of your emergency management planning.



Topic 3: Improve Evacuation Information with Personas

"Joe"—the retiree



Persona Joe, 79 years old, has been living in the same city since his early twenties. He is married of 51 years and have shared the births of seven grandchildren. Joe and his spouse are retired and live in a residential home for active

seniors. Their adult children live other states and rely on medical transport to get them to-and-from errands, outdoor activities and doctor appointments. Joe requires a cane to walk due to a permanent knee disability. Ten years ago they had to evacuate their home due to a wild fire.

Characteristics

FAMILY

- ☐ Parent/Guardian
- ☐ Single parent
- Grandparent
- ☐ Caretaker
- □ Dependent

PROFESSION

- ☐ Student
- □ Employed
- □ Self-employed
- □ Unemployed
- Retired

Demand Group

- Permanent resident
- ☐ Employee—live in another city
- ☐ Living in city less than 6 months
- □ Visitor/Tourist

Modality

TRANSPORT NEEDS

- Personal car
- Shared household car
- ☐ Public transport
- ☐ Walk/Bike
- Medical transport

DAILY ACTIVITIES

- □ Drop-off/Pick-up schoolchildren
- ☐ Carpool
- Commute to school or office
- Public transport to school or office
- Other

Daily demands

50% OF THE DAY I AM...

- ☐ Driving
- At home/errands
- At work
- ☐ At school
- Other

25% OF THE DAY I AM...

- ☐ Driving
- At home/errands
- ☐ At work
- ☐ At school
- □ Other

25% OF THE DAY I AM...

- ☐ Driving
- At home/errands
- At work
- At school
- □ Other

Evacuation event

NOTIFICATION

- I do know how I would be notified to evacuate if I were not at home
- □ I do know how I would be notified to evacuate if I were at home
- I don't know how I would be notified to evacuate my home
- I would call the police/fire dept for more information
- I would rely on the news/radio
- I would rely on neighbors

LIMITATIONS

- □ There is a language barrier if I was given verbal evacuation instructions only in English (this also includes sign language)
- □ I am visiting, or just moved, and unfamiliar with the city
- Myself or a family member has special medical/physical needs
- I don't have access to a cell phone or the internet

FAMILY WHEREABOUTS

- I do know the evacuation process at my child/children's school
- I do know the evacuation process at my own, or spouse's, workplace
- □ I don't know the evacuation process at my child/children's school
- □ I don't know the evacuation process at my own, or spouse's, workplace
- ☐ I would not evacuate until I pick-up my child/children from school
- □ I would not evacuate until I pick-up my aging parent(s) from the convalescent home/hospice

EXPERIENCE/TRAINING

- I have evacuated before
- ☐ I have not evacuated before

PrepTalks. New Perspectives for Emergency Managers.

