Earthquake Mapping: Data parameters

Data Visualization

Parameter 1:
<u>Magnitude</u>

Magnitude measures the energy released at the source of the earthquake.

attribute: color

Parameter 2:
<u>Mmi: Modified Mercalli Intensity</u>

Mmi measures the strength of shaking produced by the earth-quake at a certain location.

attribute: shape

Magnitude	Typical Maximum Modified Mercalli Intensity
1.0 - 3.0	I
3.0 - 3.9	II - III
4.0 - 4.9	IV - V
5.0 - 5.9	VI - VII
6.0 - 6.9	VII - IX
7.0 and higher	VIII or higher

Scale comparison

11.01.17

Earthquake Mapping:
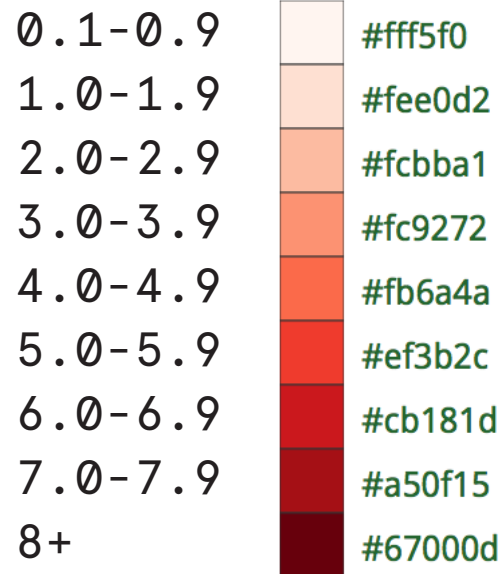# Modified Mercalli Intensity Scale

Abbreviated Modified Mercalli Intensity Scale

I. Not felt except by a very few under especially favorable conditions.

II. Felt only by a few persons at rest, especially on upper floors of buildings.

III. Felt quite noticeably by persons indoors, especially on upper floors of buildings. Many people do not recognize it as an earthquake. Standing motor cars may rock slightly. Vibrations similar to the passing of a truck. Duration estimated.

IV. Felt indoors by many, outdoors by few during the day. At night, some awakened. Dishes, windows, doors disturbed; walls make cracking sound. Sensation like heavy truck striking building. Standing motor cars rocked noticeably.

V. Felt by nearly everyone; many awakened. Some dishes, windows broken. Unstable objects overturned. Pendulum clocks may stop.

https://earthquake.usgs.gov/learn/topics/mag_vs_int.php

11.01.17

Visual Elements:
Color and Ground

magnitude color scale:
stepped red

visual ground:
neutral gray

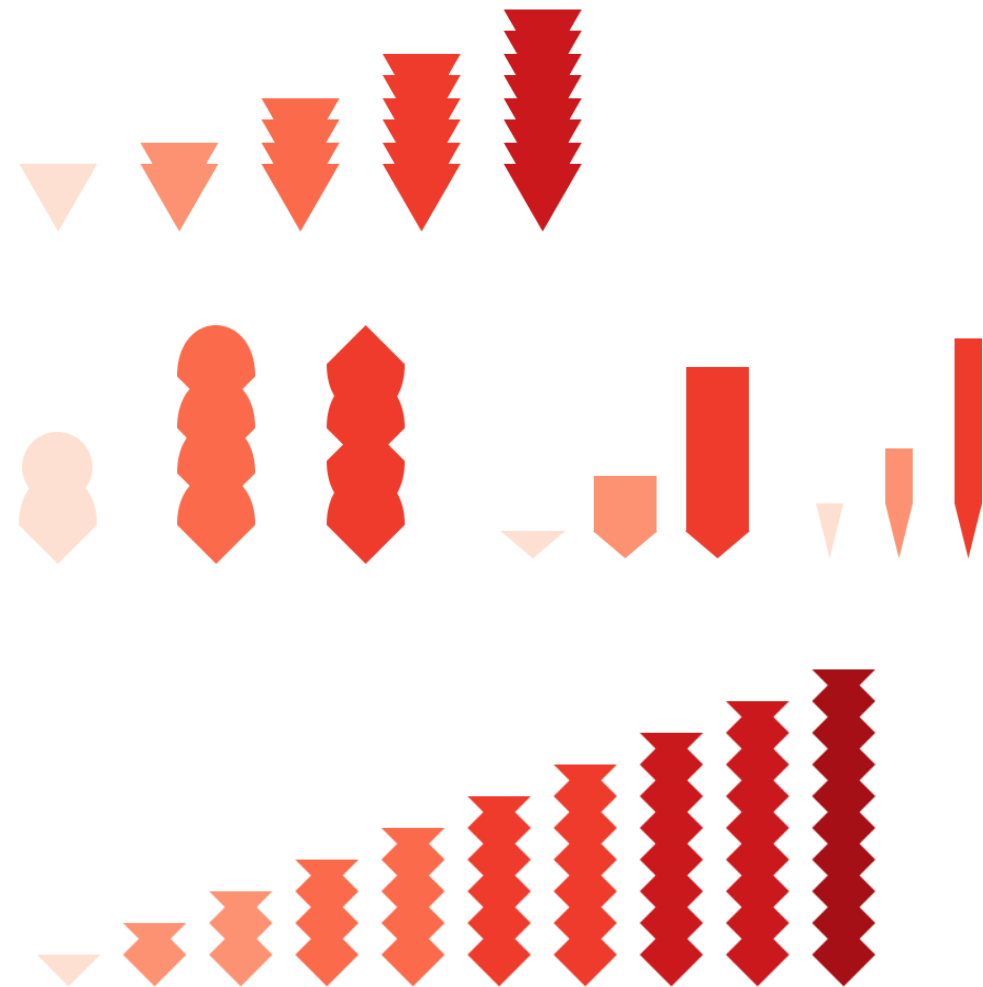|		
0.1-0.9		#fff5f0
1.0-1.9		#fee0d2
2.0-2.9		#fcbba1
3.0-3.9		#fc9272
4.0-4.9		#fb6a4a
5.0-5.9		#ef3b2c
6.0-6.9		#cb181d
7.0-7.9		#a50f15
8+		#67000d

Data Visualization

Visual Elements:
Map icons

inspiration point:
Constantin Brancusi

map icons:
 sketches & alternatives

Visual Elements: UI

Time selection:
sketches & alternatives

Button elements: inactive, hover, active states

past hour	past day	past week	past month
past hour	past day	past week	past month
past hour	past day	past week	past month

Slider/Scale elements

past day

past week

past month

past day

past week

past month

Data Visualization