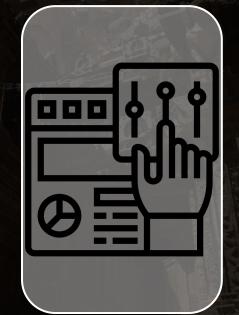
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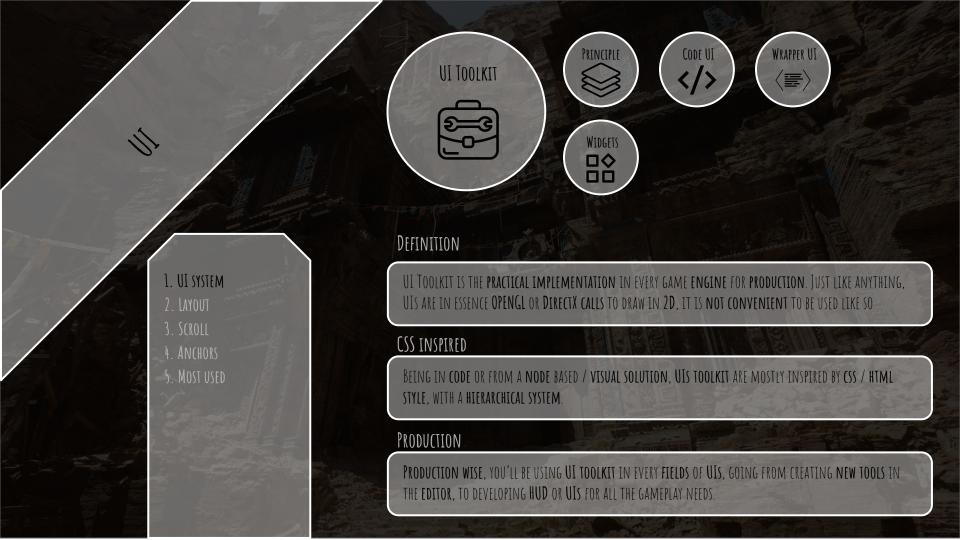


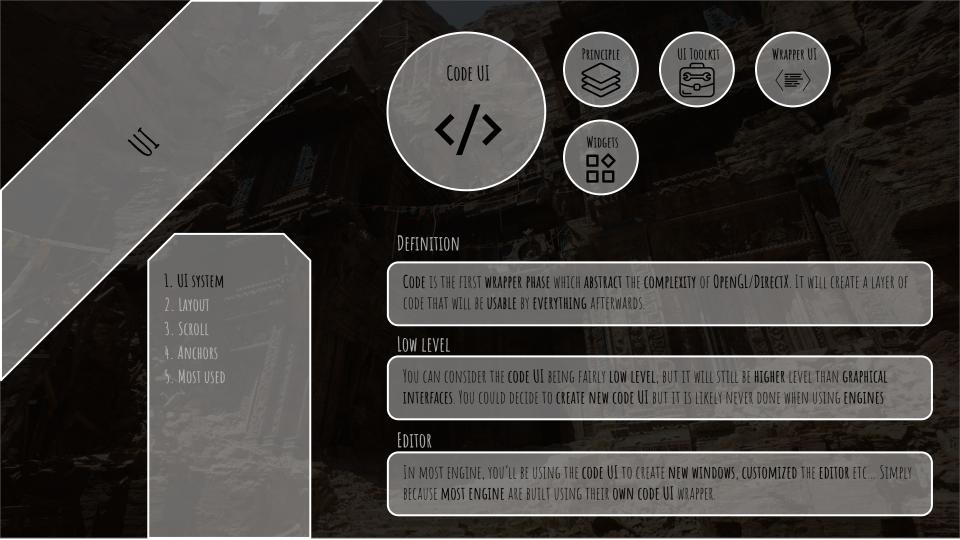
NICOLAS SERF SERF.NICOLAS@GMAIL.COM

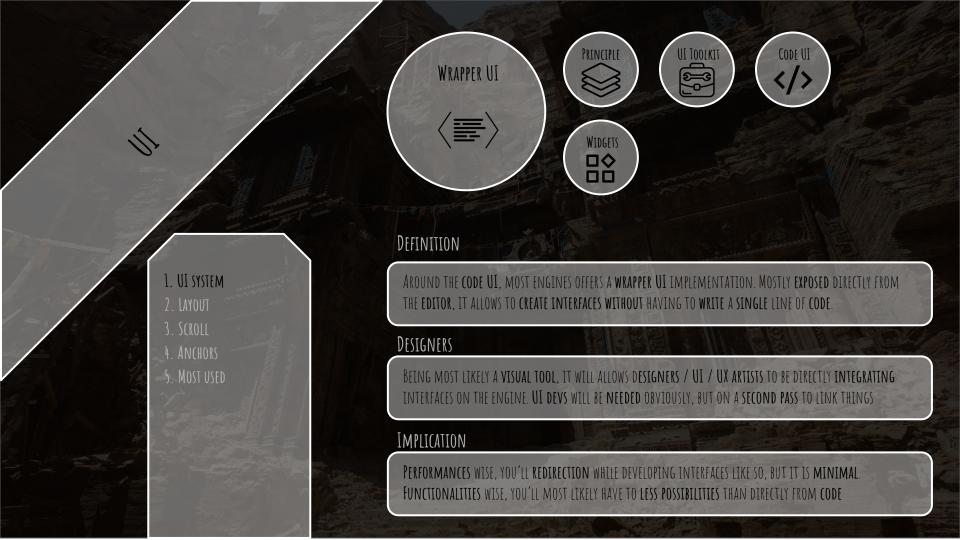


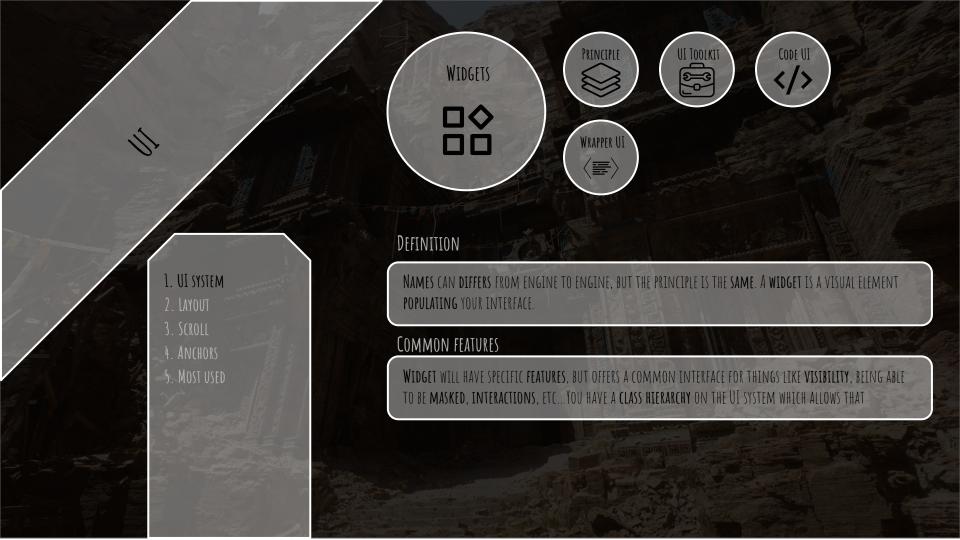




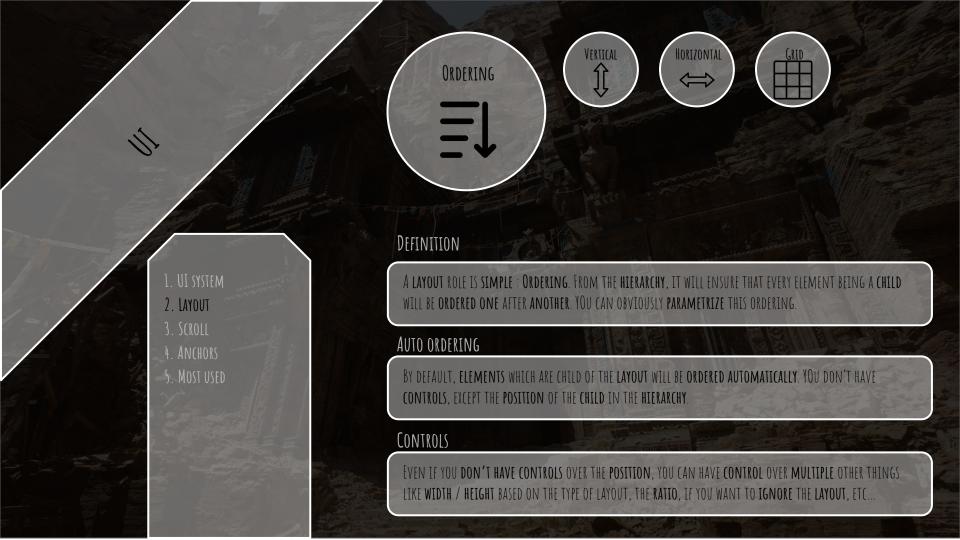


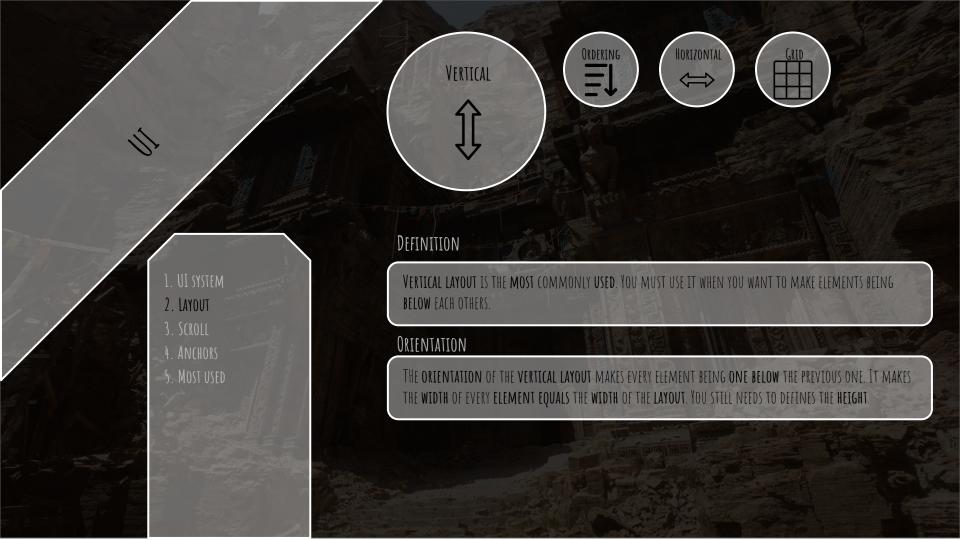


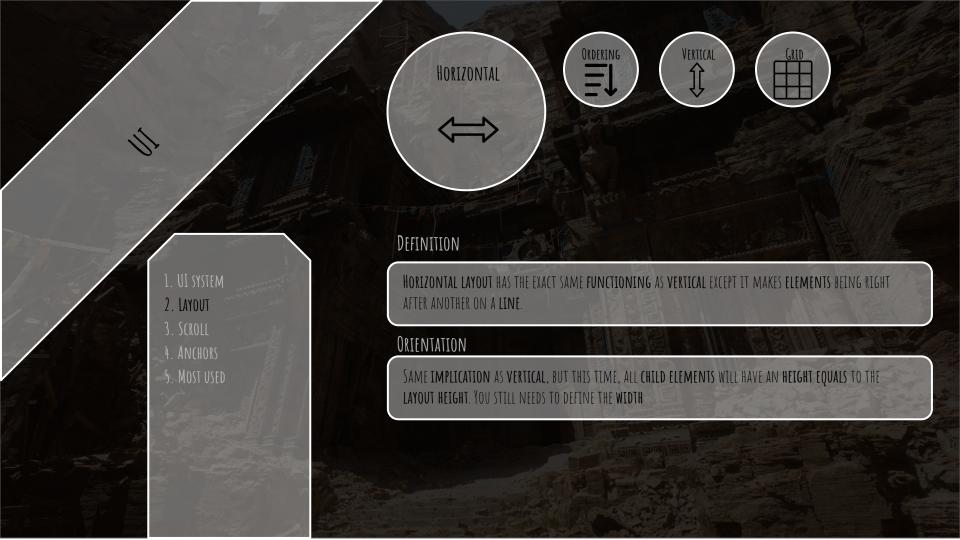


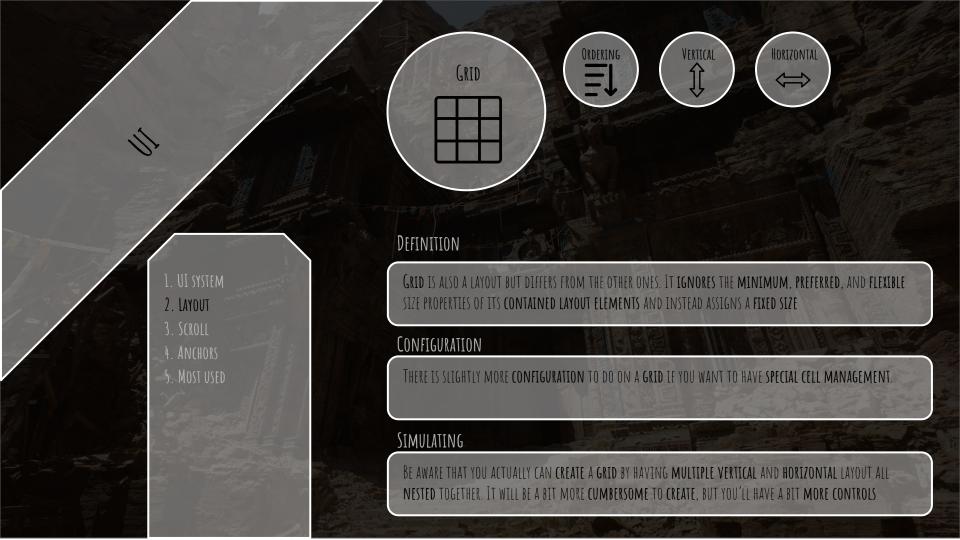








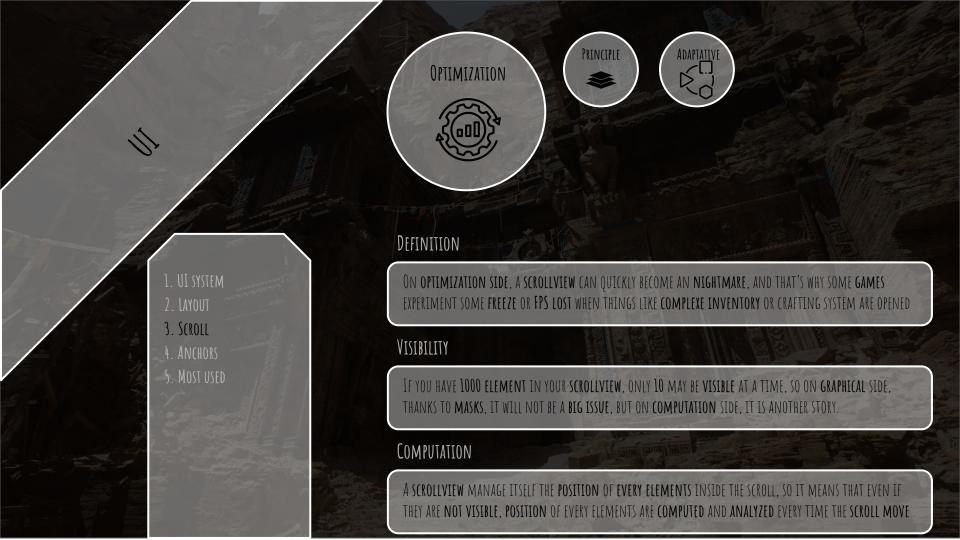




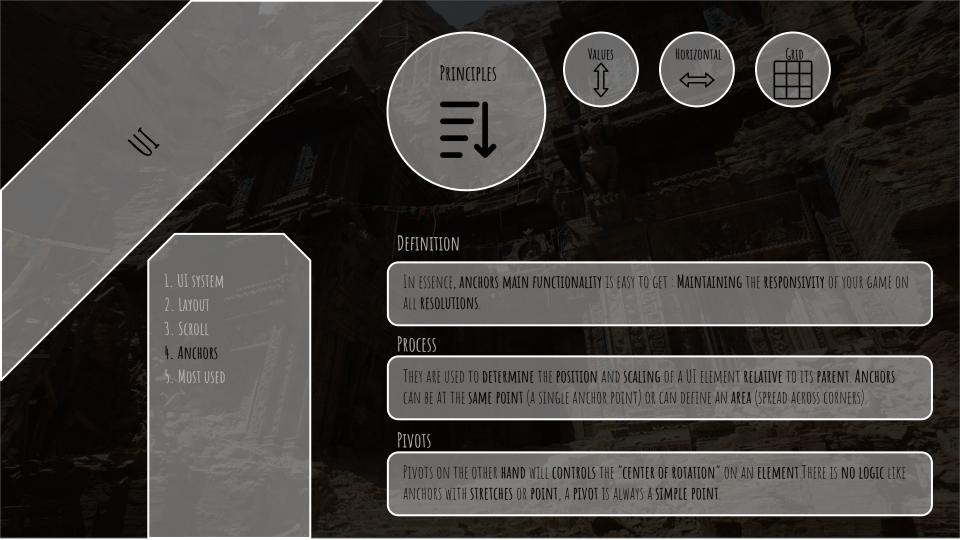


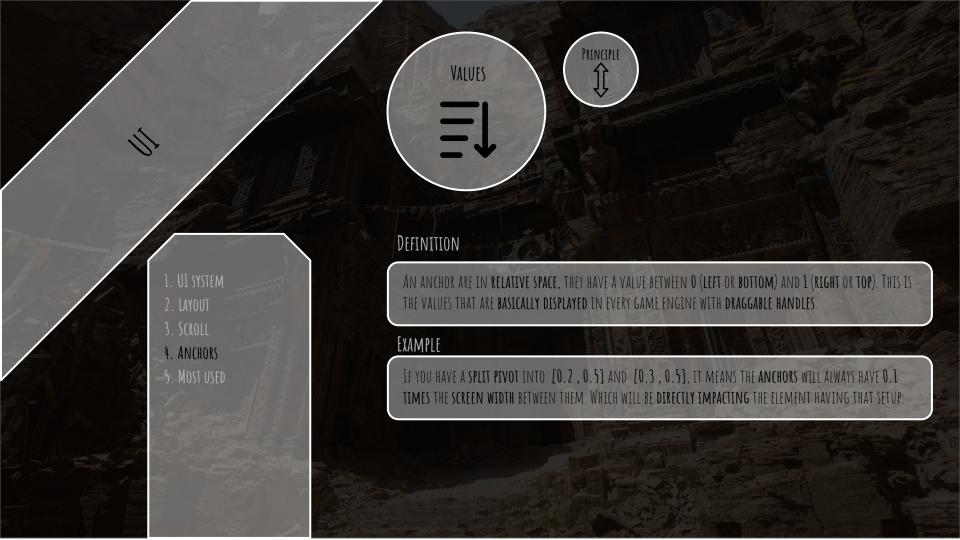




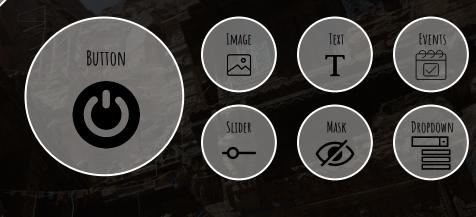












- 1 III CYCTEM
- 2. LAYOUT
- 3. SCROLL
- 4. ANCHORS
- 5. MOST USED

A BUTTON IS AN UI ELEMENT YOU CAN INTERACT WITH, IN ORDER TO RECEIVE A CALLBACKS. THEY ARE OMNIPRESENT IN MOST UIS WHICH ARE INTERACTABLE.

EVENTS

THERE IS **VARIOUS EVENTS** ON A **BUTTON**, LIKE **ONHOVER**, **ONHOVEREXIT**, **ONCLICK**, **ONPRESSED**, **ONRELEASED**, ETC... YOU MUST CHOOSE CAREFULLY WHICH TYPE OF EVENT YOU ARE LOOKING FOR.

IMPLEMENTATION

THAT'S A DETAIL BUT IT IS IMPORTANT, YOU WANT BUTTONS TO BE CONSISTENT IN A GAME, HAVING THE SAME REACTION ON HOVER, THE SAME LOGIC WHEN YOU CLICK, ETC... YOU'LL MOST LIKELY CREATE A WRAPPER ABOUT IT.



- 5. MOST USED

AN IMAGE IS A NON-INTERACTABLE ELEMENT WHICH IS USED TO DISPLAY TEXTURES, PNG, ETC...

RATIO

JUST LIKE **regular image**, you must be careful when it comes to **ratio** of an image. You can **preserve** an ASPECT RATIO IN MOST ENGINE, BUT IF YOU SCALE IT BY HAND, YOU'LL HAVE A STRETCHED IMAGE.

SCALING

THERE IS MULTIPLY SOLUTION WHEN IT COMES TO FILLING AN IMAGE ELEMENT WITH A PNG. IT DEPENDS FROM ENGINE TO ENGINE, BUT YOU CAN HAVE TILING, FILLING, PRESERVING, ETC...



- 1 III CYCTEM
- 2. LAYOUT
- 3. SCROLL
- 4. ANCHORS
- 5. MOST USED

A TEXT IS A NON-INTERACTABLE ELEMENT WHICH IS USED TO DISPLAY TEXT, JUST LIKE THE NAME SUGGEST. YOU MUST BE CAREFUL ABOUT WRAPPING THE TEXT, OVERFLOW, AND OTHER THINGS.

FONT

WHEN IT COMES TO TEXT, YOU OBVIOUSLY HAVE FONT THAT COMES INTO THE EQUATION. A FONT CHOOSE IS IMPORTANT BECAUSE IT HAS IMPACT ON THE LOCALIZATION, IF THE FONT DOESN'T SUPPORT STRESS FOR EXAMPLE.

LOCALIZATION

OBVIOUSLY, WHEN YOU WANT TO DISPLAY TEXT, YOU'LL FACE LOCALIZATION, WHICH MEANS BEING ABLE TO DISPLAY A TEXT TO YARIOUS CULTURES AND LANGUAGES AND ADAPT TO IT AND IT COMES NUMEROUS CHALLENGES.





- 1. UI SYSTEM
- 2. LAYOUT
- 3. SCROLL
- 4. ANCHORS
- 5. MOST USED

A SLIDER IS AN INTERACTABLE ELEMENT THAT OFFERS THE POSSIBILITIES TO CHOOSE AN NUMERIC VALUE BY HAVING A SLIDER, SO A DRAG&DROP WIDGET THAT HAVE A VALUE ASSOCIATED WITH THE POSITION OF THE HANDLE.

MIN-MAX

EVERY SLIDER COMES WITH A MIN AND MAX VALUE, WHICH ARE THE VERY LEFT POSITION OF THE HANDLE, AND THE VERY RIGHT POSITION OF THE HANDLE.

WRAPPER

EVEN IF THE **SLIDER** CAN LOOKS LIKE JUST A **NUMERIC MODIFICATION**, YOU CAN ALSO TRANSFORM IT IN ORDER TO HAVE IT **NON INTERACTABLE** AND **DISPLAY GAUGE**.



- 1 III SYSTEM
- 2. LAYOUT
- 3. SCROLL
- 4. ANCHORS
- 5. MOST USED

A MASK IS AN INVISIBLE AND NON-INTERACTABLE THAT ALLOWS TO ENSURE THAT A WIDGET WILL NOT BE VISIBLE OUTSIDE THE RANGE OF THE MASK. IT WORKS WITH THE HIERARCHY ONCE AGAIN.

VISIBILITY

WHEN WE REFERS TO VISIBILITY, IT'S EITHER IS THE WIDGET VISIBLE OR NOT, IN A GLOBAL WAY. MASK ENSURE THAT A WIDGET CAN BE PARTIALLY INVISIBLE IF OUTSIDE THE MASK AREA.

HIERARCHY

IN MOST ENGINE, HIERARCHY IS IMPORTANT AND MANDATORY FOR UIS, BUT IT IS EVEN MORE WITH MASK BECAUSE THEY AFFECT CHILDREN.



- L. UI SYSTEN
- 2. LAYOUT
- 3. SCROLL
- 4. ANCHORS
- 5. MOST USED

A DROPDOWN IS A WIDGET THAT DISPLAY ONE OPTION AT A TIME, BUT CAN BE INTERACTED WITH IN ORDER TO HAVE A SCROLLABLE LIST OF OPTIONS FROM WHICH THE USER CAN CHOOSE FROM.

EVENT

JUST LIKE BUTTON, DROPDOWN HAS VARIOUS CALLBACKS FOR THE EVENTS LIKE: ONOPEN, ONSELECT OPTION, ETC...DROPDOWNS ARE OFTEN USED FOR OPTIONS MENU FOR EXAMPLE.

OPTIONS

DROPDOWN HAS A LIST OF OPTION YOU CAN EITHER FEED IN THE DETAILS, OR BUILD AT RUNTIME.

