

~ Fia (FIRE)



“~ In a nutshell” : **Fire** is due to the rapid exothermic oxidation of material in a reaction that releases energy during a chemical process called combustion, releasing heat, light, and various other reaction products. Fire is hot because during a conversion of weak double bonds with molecular oxygen to stronger bonds in the combustion products energy gets freed.

Given the right conditions the released energy leads to further exothermic oxidization and thereby further fire, an avalanche dynamic.

$C_{\text{solid}} + O_{2 \text{ gas}} \rightarrow CO_{2 \text{ gas}} + \text{heat}$ , the heat in turn can free more carbon atoms and lead to more such combinations releasing yet more heat. Note: Only gas can burn, it is thus necessary to heat a material initially so as to release enough gas to allow for combinations of Oxygen with carbon, in turn releasing more heat which allows further exothermic oxidization resulting in yet more heat and fire.

Mid-day in California 9/9/2020



Weil: “Brennan duat’s glei !”