strins. like the slices of a melon, then sersed together with double scams, over cach of which strong paper, or some similar suistance, is tightly glued or gummed; the whole of the outsije is then coated with India rubler or other varnish.
Wien it is dry, hydrogen gas, which is ten times lighter than air, is pumped into the inside, and securcd by means of a cock. The car hangs from a stout ring which is supported by a fine network, surrounding the whole sphere. The whole machinc is moored to earth by atrong cord, until all is ready for the ascent. Wh:n the time comes, the corids are cut, an! the balloon rises. Nfe- it reaches a certain height, the travelers, if they choose throw down the sand which has served them as ballast-and, as cash lot goes overboard, the fairy machine shoots higher. When they wish to descend-atter a certain height the air becomas too thin for breathing, and it is often very coldthey turn the gat-cock slightly, and let a portion of the gas in the balloon escape. lisy the belp of this cock, they can reguli:te the escape of gas as they please, and so descend gently and safels.
Ano:her species of balloon is the old fire-balloon, which is made in various rrays, though aeronauts seldom use it for their ascents. In this balloon the bottom of the sphere is left open, and under an opening stands a brazier, in which either woul or cotton, or, still oftener, a spoage saturated with spirits of wine or turpantine is set, and lighted. The balloon rises in consequence of the fire, which as I explined before, makes the air in the sphere thinuer, and fills it with smoke. The common fre-b:illoons which are set off on holidars, are generally made of strong, thin paper, colored blue or red; the cdijes are strono:y pasted together with gum arabis, or some such adhosive sqiss anze, and the whole is coated cither with gum arabic or with varaish. When tiese talloons are well made, so that no air can escape, and the paper cannot catch fire; they will rise as long as there remains warthing in the brazier to burn.

Yet another ballooon is made on the sume phan as the large balloons; it is made of gold-beater's skin, and is quite small. The sphere is filled with hydragen gas, and a miniature car is attached to the bottom. This will xise till it is loit to riew, and remain suspended in air t.ll tic winds and the damp destroy it.

In a room, it will cling to the ceiling for days together.
For amusement, the firc-balloons are the best to construct. A number of them; of various colors, present a very curious and pretty sight, as they ascend towark the sky. They have more than once been mistaken for strange comets by distant observers; aud waggish boys are atill, I believe, in the habit of playing practioal jokes with them.

## MONKEYS-IN BRAZIL.

In several parts of the interior, I had been told that, to get at the kernel, the shell being too hard to broak with thsir teeth, the monkeys carry the nuts to a rocky place, and then break them with a stone; and I even mat with parsoas who asaured me that they had watched them in suck placet, through the bushes, and actually ${ }^{\text {ecen }}$ them engaged in the operation. This account, like that of the carrying away of Indian corn, I always considered fabulous till I arrived at Supc. In an excurrion we mado over the Serra, immodiately behind the Fazenda, where it is composed of nearly bare, rugged limestone pakks, in eeveral almost inaccessible places we cams upon large heaps of the broken nuts, generally on a bare, open part of the rock, and along with thent a number of roundish pieces of stone targer than the fist, which had evidently been emplosed in breaking the shells. These Senor Legocira told me were, the places resorted to by the monkeys for the purpose of breaking the nuts collected in the low grounds; and that in his shooting excursions over the mountains, he has frequently seen them take flight on his approach. That they both can, and really do, make use of a stone in ordur to break that which is too hard for their tecth, I have frequently wisnessed in a little pet monkey thai zccompanied me on my journey. I obtained it in Piawhy, and it was the only one of the many tame animals 1 carried with $m s$ that reached Rio de Janciro alive; it was a female of the species we are now speaking of, and ultimately became very geatlo. Jerry was the faroite with all, and indeed, in all respects, fared like ourselves ; it became so fond of tex, which it drank every morning and evcring, that it. rould not go to slerp without i:s usual allowance. Its farorite food was farina, boiled rise, and bananas, but scarcely any thing came
amiss to it; a raw egs wate a choice. morsel, and on being given to it, it broke onc end by gently knocking it on the floor, and completed the whole by picking: off the broken bits of shell, and putting it in the point of its long, slouder finger ; throwing back its head, and holding the egg erect between its two baniles it no00 contrived to suck out the whole contents. Whenever any thing wase given to it that was too hamd to break with ita toeth it always looked about for a stone, and litting it with one hand, by repented blows would attempt to crack it ; if unnucoemful by these meano, it would try to find a larger, which it would hold in both ita hands, and, rising erect on its legs, would let it fall, leaping backwards at the nams time to avoid any injury to its toen. I have often watched the mioane it emploged to obtain any amall object that happeped to be a little beyond its reach. If it could lay its hand upon a little awitch, or alender twig of any sort, it would stretch iteelf out as fur as its cord would allow, and contimue working at the object till it got within its reach. These operations were certainly often very awkwardly performed; but they were always interesting. from the amonnt of reasoning power which the little animal exhibitod, and the persererance with which its object .wat att tined. Jerry almost always rode on the back of a large mastiff dog that ascompanied us, and in this manner performed a journey of severa! thousand miles. Thesc two animals were greatly attached to each other, and it was often un amusing sight to sec them gamboli: 3 together. Before starting, the dog used to go every morning to the place where the little monkey was tied, and wait till it ras put upon its beck, and its cor. 1 made fast to bis collar. In trasc ing, it was not at all particular whether its face was toward the head or tail of the charger, except when going down hill, when ita face was turned forward, and to prevent itself from slipping over the dog's Lead, it made use of its loag, prebensile tail as a crupper, by coiling the extremity around the ro tof that of the dog.-Wunderings in Brazil.

Wisdom is better than riches ; wisdum goarla thee, but thou hast to guard the riches. Hiches diminish in the using; but wiadom incereasea in the uic of it.

