"A primrose growing by a brim, A yellow primrose was to him, And it was nothing more.

Consider for a moment the part that Consider for a moment the part that muscles play in the civilization of the face. Whatever man has achieved in the subdual of the world, or in the elevation of the species, though it may have originated in the mind has been wrought out by the muscles. * Muscles are more than servants for the mind: for no master is entirely in-

the mind: for no master is entirely in-capable of doing things without ser-vants; but without muscles the mind, so far as the plane of activity is con-cerned, would be absolutely powerless. The most ghastly evidence of this truth is the fact that men in a state of trance are often burned alive; unable by so much as a wink or a breath, or a change of expression in the eye, to tell their weeping friends that they are not yet dead.

The muscles make one half the body by weight, and each muscle fibre is harnessed to the brain by a nerve filament, along which the power to act is transmitted. Education from one is transmitted. Education from one point of view is learning how properly to send power along these nerves; for to send power along these nerves; for on the relative strength and coordina-tion of these nerve currents depends all the difference between the artist and the clod hoppper. This fact brings us naturally to a consideration of muscle training and the part it has played in history. Naturally in the upward evolution of the race, muscle-prowess would attract

the race, muscle-prowess would attract attention before mind-prowess. The attention before mind-prowess. The early heroes of every people have been men capable of doing wonders in physical strength. The same laws hold during childhood and youth. Strength, during childhood and youth. Strength, swiftness and muscular dexterity al-ways win applause in youthful circles, especially if physical courage or "game" qualities be associated there-with. This characteristic remains true throughout life, wherever the energies are not unduly drawn to the mind. The history of ancient Greece, how-ever, shows that the greatest physical development can co-exist with the

ever, shows that the greatest physical development can co-exist with the greatest mind development. The peo-ple of today can scarcely conceive the the ple of today can scarcely conceive the state of perfection reached in sym-metrical muscular development in that early age of the world. If a collection of the best trained athletes could be made from all over the world, we should hardly approach the perfection of physical manhood and womanhood exhibited by the body of the Greek people.

And that such eminence should hav And that such eminence should have been rearted by an entire people, is little to wonder at: for the Greeks or-dered their entire lives, from the be-getting of children to the last act of homage and devotion, with a view to physical perfection. The olympic physical perfection. The olympic rames, which occurred every four years, were of such natural moment, that every other activity, even war itthat every other activity, even war it-self, was suspended that the people might attend them. So vast and varied were these displays of physical man-hood, that if all the boat races, horse races, foot races, bicycle races, spar-ing matches, foot ball matches, and other athletic exhibitions that take place during any season, were com-bined, with all their spectators. into other athletic exhibitions that take place during any season, were com-bined, with all their spectators, into one vast tournament representing the muscular prowess of modern times, it would not begin to compare in size, enthusiasm or actual physical results, with the regular meetings of the Greek people to celebrate the national games.

So highly prized was the simple laurel So highly prized was the simple laurel with which the victors were crowned, that walls were often torn down that a youth bringing such honors to his na-tive city might enter unmolested, and his name became the theme of poetry and the burden of song.

Physical education was maintained

at a high plane in Rome, owing to the exigencies of war; also during the mid-dle ages. owing to knight-errantry, exigencies of war; also during the mid-dle ages. owing to knight-errantry, which involved the joust and tourna-ment; but when gunpowder was in-vented, a soldier's value came to de-pend less and less upon his muscular power and dexterity, and so physical training fell into disuse. As a result of the effeminacy which came to the race, in consequence, Ger-many fell an easy victim to the Napol-eonic wars, but it took the Germans a long time to realize the cause of their

long time to realize the cause of their weakness. It was first pointed out by Father Jahn, who by the aid of the government established Turner-bunde or Turner-platze for the physical de-velopment of the nation's youth. His theories as to the effect of such train-ing in re-enforcing martial valor were

theories as to the effect of such train-ing in re-enforcing martial valor were realized most gloriously for the father-land when the French were routed and driven again beyond the Rhine. Since the days of Father Jahn, physical education has been largely re-duced to a scientific basis. Of its re-sults as to health and power, all are now agreed, But there is still much diversity as to the best methods of attaining such results. The German school of gymnasts follow the lines laid down by John. The Swedlsh fol-low a system devised by Prof. Ling. The French have their Delsarte, while America, if it has any system at all, may be said to follow the ecclectic. It does not seek to develop any series of muscles inordinately, but aims to equalize and harmonize the the whole; to which end, exercise are chosen to to which end, exercise are chosen to fit the condition of each individual as determined by careful measurements and medical diagnosis.

and medical diagnosis. For all-round physical education, it would be hard to find a better school than the old-time New England farm. And perhaps the duties of an agricul-tural vocation are, all things consid-ered, the safest and truest means or national motor education today. Without the vigor of body there acquired, the race would soon deteriorate, what-ever be its artificial systems. In a New England museum devoted to farm New England museum devoted to farm relics are products which show that our fathers and our mothers were skilled in the muscle-craft, belonging to eighty-two distinct industries. What system of physical culture can show such variety of development as this? The muscles of the body are divisi-ble into two distinct classes, viz: the fundamental and the accessory. The, fundamental are first developed, and as their name indicates, are the muscles on which all great movements depend. The accessory, on which de-

depend. The accessory, on which de-pend all the finer and more delicate adjustments of the body do not fair-ly begin their growth before the eighth year, and in many people they are particular uncertainty.

partially wanting. These last are facts which every teacher should bear in mind, for on them depends a most important pedainclude a principle. It is by means of the accessory muscles that variety and intricacy of voice, finger, or other the accessory muscles that variety and intricacy of voice finger, or other manipulation become possible. To keep a child at exercises requiring fine dis-crimination, at an age when these muscles are undeveloped, is therefore muscles are undeveloped, is therefore little short of crueity, and must reach disastrously upon his nervous system. The most common instances of the violation of this principle, is in set-ting very young pupils to writing. The tolling of the tongue, the grim-aces, and the nervous twitching of the body during this exercise, should all be regarded as danger signals, which if not heeded are likely to end in chorea or St. Vitus dance.

delicately poised are they that they respond instantly to every change of thought or emotion. By practice they may perhaps be repressed to a degree but if left to themselves they make the face and form a canvas on which our innermost souls are portrayed to the eye that has learned to read the soul's language. soul's language. Nor need this language be known to

Nor need this language be known to the consciousness of him who ex-pressed it. The planchette is a little instrument which gives easy play to automatic muscle communication, and with it thoughts and ideas not in con-sciousness are committed to writing. A common form of the experiment is to place the hand on a pane of glass fitted with a pencil, and made to roll freely over the sheet of paper by means of three marbles. As before intimated, weakness or

As before intimated, weakness or disease of the ancessory muscles re-sults in chorea or St. Vitus dance. It disease of the ancessory muscles re-sults in chorea or St. Vitus dance. It is essential to the health of these mus-cles that they be perfectly free to ex-press any form of thought or emotion to which the mind is subject. Repres-sion retards their development and leaves them weak and subject to dis-

The question of college athletics is directly to the point in a consideration of motor education. In general, it may be said that whatever builds up the physical system, tends to absorb energies which, if not turned to mind. generally go to fertilize vice and cor-ruption. College sports must there-fore be placed on the side of morality. They also serve as a direct barafit.

fore be placed on the side of morality. They also serve as a direct benefit in re-enforcing mind-power, and in de-veloping manliness and self-control. Boxing, for instance, is one of the surest cures for sudden anger; the contestant who fails to take his pun-ishment in good grace, i.e., Ioses his temper, meets swift retribution for his want of self-control. These sports are often 'unnecessarily rough, not to say brutal. But on the whole, it is better to lose a good man occasionally in foot

brutal. But on the whole, it is better to lose a good man occasionally in foot ball than to have eleven young men spoiled by effeminacy, or debauchery. The new direction of motor educa-tion is along channels which, while they furnish exercises sufficient for growth, train the muscles at the same time to useful handicrafts. This thought has led to manual training schools, concerning which a few thoughts may not be amiss. In kindergartens and primary schools the aim should be to make

In kindergartens and primary schools the aim should be to make toys, for this is the line of most active interest. There is a veritable mine of pedagogic truth yet to be developed in this direction. Russia has considered pedagogic truth yet to be developed in this direction. Russia has considered toys of so far-reaching an influence in education, that she has held two toy congresses, the purpose of which was reform and further development. In the higher departments many schools have found it a valuable stim-ulus to have students construct the annaratus needed to illustrate the sub-

apparatus needed to illustrate the subapparatus needed to indistrate the in jects of science under consideration in their classes. Of course in all grades children should be permitted to keep

children should be permitted to keep what they make. The general purpose underlying all physical training should be to increase the complexity and speed of the mus-cles. First, children should be taught to do as many things as possible. The stid Common idea was for the student old German idea was for the student to travel-become a journeyman-and learn now from this master, then from that, all the trades useful to man. The ideal would be to have a student build be all mathed of manual the skilful in all methods of manipulation and master of one method.

Second, he should be taught to do what he does with accuracy and speed. or St. Vitus dance. The accessory muscles have well been called the muscles of thought, since it is upon these almost entirely that mind depends for expression. So