

APES TAUGHT TO EARN AND SPEND MONEY

Yale Laboratory Primates
Distinguish Good From
Bad 'Coins.'

By Science Service
NEW HAVEN, Sept. 29.—You
don't have to have all your brains
to handle and use money.

This is the conclusion that might
be drawn from experiments with
the famous monkeys and apes at
Yale who have been taught to earn
varicolored chips and then spend
them for food delivered to them by
automatic vending machines.

These "financier" apes and monkeys
have aided in a new experiment,
designed to explore further the
mechanism of the brain. Drs. C. F. Jacobsen and J. B. Wolfe of
Yale's laboratories of comparative
psychobiology have reported that
even after injury has deprived the
apes of what the scientists call the
"frontal association area" of the
brain, they retain some of their
financial ability.

Can Distinguish "Coins"

They can earn money. They can
distinguish valuable "coins" from
worthless ones. They spend their
wealth for food at automatic vending
machines appropriately called
"chimpanzees."

A financier or banker so unfortunate
as to suffer a lesion of his
frontal association brain area might
be able to go on as usual spending
his money. The ability to
recognize the value of money and
to exchange it for valuables is one
which survives even in the face of
a lack of this important part of
the brain. But he might easily be
cheated. For, like a young child, he
might not know the difference be-
tween nickels and dimes.

The injured banker would suffer
a loss of memory of events in the
immediate past, it appears from
Dr. Jacobsen's experiments on primates,
which were conducted with his associate, Dr. Wolfe.

Healthy Memories Best

The animals were allowed to
watch the experimenter hide a cov-
eted morsel of food or a "coin"
which they could later exchange for
food under one of two cups. If they
were released immediately, they
would practically always go imme-
diately to the correct cup and se-
cure the reward. But if they were
held in check for even so brief a
time as two seconds, they would
have forgotten which was the right
cup. Healthy animals can re-
member where to look for as much
as five minutes.

Similarly, the injured animals
were able to reach out of their
cages, secure a stick for a tool, and
with it draw in a banana which lay
temptingly just out of arm's reach.

More than that, when the treat
was farther away, they could use
the stick to reach for a longer one
and then make use of the longer
stick to get the food. But when
the food was placed outside one end
of the cage and the stick outside the
other end, the problem was too
much for them. They could not
keep in mind the location of the
food long enough to go to the other
end of the cage for the stick.

Similar to Senility

Nevertheless, the memory of how
to use the stick, and how to perform
the complex trick of taking a coin
and placing it in a slot machine to
secure food, were retained. The
apes were even able to select a yel-

HOLES IN TIMBER HID RANSOM HOARD



The carpenter's ingenuity was exhibited by Bruno Hauptmann in making this place of concealment for \$840 of the Lindbergh ransom money found in his garage in Bronx, N. Y. This closeup picture shows how bills had been hidden in holes drilled into one of the garage timbers. The little .25-caliber automatic was concealed in the slot at left, made by joining three auger holes. Police had searched the garage for nearly a week before finding the cache.

Art Gallery Will Open on Monument Circle Monday

Best Works of Old Masters Among Arthur Zinkin Collection
Will Be Exhibited, Is Promise.

An art gallery is to be opened Monday on Monument Circle, at the East Market street corner, in which will be displayed the paintings of a large number of the old masters, it was announced today.

The collection, assembled by Arthur Zinkin of this city, has been acquired from several important sources, and includes examples of celebrated artists of the English Dutch French and Italian schools.

The collection comprises paintings by Thomas Gainsborough, Sir Joshua Reynolds, Sir Thomas Lawrence, Raeburn, Phillips, Northcote, Titian, Valasquez, Van Dyck, Raveinstein, Clouet, Goya, Fragonard, Romney, Watts, Hopper, Abbott, Harlow and many others.

The collection has been acquired by Mr. Zinkin over a period of several years, and the examples of the works of the masters have been selected with great care.

Most of them have graced the walls of noble houses in Europe, and some of the palaces of royalty.

The site of the gallery, on the north side of the East Market street corner of the Circle, an extension of the quarters now occupied by Mr. Zinkin in the Meridian Bookshop.

Low chip which would buy them a piece of food in preference to a green one, which was the "lead coin" of the experiment and had no exchange value. They forgot, however, a previous ability to choose a red chip which would buy two pieces of food in preference to the yellow one with half the value.

The association area of the frontal lobes of the brain are thus shown to be essential to the ability to keep in mind more than one aspect of a problem while handling them to obtain a solution, and necessary for memory of events of the immediate past. Dr. Jacobson concludes.

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