

Narration	Time
.hæM p~ sg lkÁ7lÆ Object Oriented Concept ~ Ruby	00:01
ë~ sg lk kL	00:06
†™wE lclasses	00:08
†~ objects	00:09
-ÐZ j §Z Æä™ãlz methods ~ Ruby	00:10
ëVÆ	00:13
gzl 12.04y jgz Ubuntu	00:14
• ì g™wE l Ruby 1.9.3	00:16
.ì ~gzC†fD»ñiLÀ gzlì R0k&¼0 Å\ MhÆKÃsg lk kL	00:19
.NY6V, dz~g0ñÆsg lk´ Å7xL	00:24
.¶lëG~l }le ttt „ ¬ äëž, †šc0¬ Ðä™qzÑ	00:28
.• DY6~l }le kL[ l	00:33
6~l geclases gzl ruby hyphen tutorial	00:35
.ì yliª óVÆ Object oriented qL Ruby	00:41
;ì √w qL¼f0J• Cstring Ð=Z ~ Ruby	00:44
.ì • ù» functions gzl data ´ 0class qL	00:49
.ì Y lk»Æp k] â¥±t	00:53
.ì instantiation qL Å class 0object qL	00:56
.ì Cf qLÑÐ classeg lz Å s>ÿz Å class qL	01:00
.ì @lk†» class ^ Æ kL	01:05
.ì Cf àlz äf »B, Æend t	01:08
.• ÛšwV qL Å class [ l	01:11
class Product	01:14

eÃ ruby	01:16
end	01:17
.' eṫfqzÑD{ ã xṫclass	01:20
.Ãeäf ~ camel case 0VfpÖZ{SciDq1~ T 0xṫ	01:24
0 0!	01:28
UserInfoInformation	01:30
ProductInformation	01:32
.ì @fWE l» underscore ~ ä™µÃpÖlÆxtÆV•Ãàlz^	01:34
user underscore information	01:37
product underscore information	01:40
.N~bã5q1~ gedit „ Dj šCª~ , g lkðl' lÆRuby	01:45
., šXṫclass_definition.rb Ãkl	01:48
.ì wVwdq1ÅŒlÆclassesk0} ÷	01:52
• M™UNeÃ™Uzq~ yxšD70%ozD™lg7b lk	01:57
.ì Hãlzª í Ãe Ã Order òṫK~ ~wVklä ~	02:02
.• D~q{ZÃ class ™hŽ 0kz¼0[ l	02:05
.ì Hí Ãemyinstance 0 instance variableq1ä ~Q	02:11
ì ÅqH=zq1Ãklgzl	02:15
.ì Hí ÃeÌ myclassvar ýkzk~q1ä ~	02:18
.ì H³ =zq1Ãklgzl	02:21
.• D™i ¢eÃ¼nÆWE lÆclass0[ l	02:24
puts Order dot instance underscore variables0, ™UN	02:30
., ™i ¢n 0kl P¼ 0puts nÆí Ñ5q10~Dí Ñkl	02:36
., ™±Dlgzl, ™i ¢DlnÆí Ñðf~hŽgzl, ™º 08»Ãkl	02:43

., <sup>TM</sup> Y <sub>d</sub> ĜĀĀk[ l	02:51
, <sup>TM</sup> U <sub>gzl</sub> NY6î R	02:53
ruby space class underscore definition dot rb	02:56
.B Š2 ^f M <sub>gzl</sub>	03:02
.çñ ĪĀinstance variable lfHãzCĪ\ M	03:05
puts Order dot class underscore variables., <sup>TM</sup> U <sub>N</sub> [ l	03:09
., <sup>TM</sup> ± <sub>gzl</sub> , <sup>TM</sup> ° 8»nÇĪÆí ÑĀĀ~Èu <sub>k</sub> l	03:15
., <sup>TM</sup> Y <sub>d</sub> ĜĀĀbĀ,, bŠĀ¬ <sub>gzl</sub> NY6î R[ l	03:21
ÔDB Šclass variableÔlfHãzCĪ\ M	03:26
.• ĩ tÆ <sup>TM</sup> classCĪ\ M[ l	03:32
?i H object • ÛŠÔD M	03:35
.i ø <sub>Ĝ</sub> »k <sup>-</sup> object qĭ	03:40
.i áDk <sup>-</sup> object ÔÈ »T	03:43
.ÇÇgk <sub>z</sub> gzl' S {" s>ÿz~ k <sup>-</sup> object	03:46
• D <sup>TM</sup> Ĝ <sub>eb</sub> Š <sup>3/4</sup> object \ M	03:52
.• D <sup>TM</sup> Ĝ <sub>eb</sub> <sup>®</sup> object»k <sup>-</sup> ñfD <sup>TM</sup> wE legzÅ *q <sub>10</sub> ë	03:54
.• ĩ g <sup>TM</sup> Ĝ <sub>eb</sub> <sup>®</sup> object»k <sup>-</sup> Product ëVÆ	03:58
.i ŠOobject VÆ	04:02
product = Product.new	04:05
.i @B initialization Å object çt	04:09
.i nÅProduct Ôobjectt	04:12
?i H “initialize” method• ÛŠ[ l	04:16
.i @fcall% <sub>z</sub> D <sup>-</sup> object Ôinitialize method	04:20
.• D <sup>TM</sup> Ô initialize method ëD ä <sup>TM</sup> w» Ônew 6object	04:26

.i \$f زÅ parameters k 0Æ initialize method	04:31
.i @M Æegz Å def t 0b SÅ k  Ruby vŠ	04:37
. • Û Šw Vq l	04:43
.N b Å5q l ~ gedit „ b SÅ, g lk Ruby ÆR 0 l	04:46
., Šx ħ object underscore initialize dot rb Å k gzl	04:50
.i w Vw dq l Å e Å object initialization 0 k 0 } ÷	04:55
• M TM U N e Å TM U zg ~ y x q Š D 0 0 % z D TM g 7 b q lk	05:00
.i H í Å e Å k - ò ħ Order q l ä ~ V Æ	05:04
.i H ã z Å initialize method q l ä ~ Æ i ħ Š 7 g W % Q	05:08
0 H í Å e Å ħ puts q l n Æ ä TM ħ a I have created an object q l ä ~	05:13
.H í Å e Å Order dot new ä ~ 0 ħ x	05:20
. ħ } TM Ô initialize method t	05:24
., TM U ħ gzl NY 6 terminal	05:27
ruby space object underscore initialize dot rb	05:31
.B Š 2 ^ f M zl	05:36
I have created an object. i ñ M Å ħ M	05:39
., TM i ħ argument q l ~ ħ gzl NY 6 gedit : lz [ l	05:43
. • D TM ~ p ~ puts [ l	05:48
. ' e ħ TM ħ a = z Å argument ñ f G k 0 t	05:51
, TM U N D M	05:55
Order dot new("I have created an object").	05:56
.i ħ Š argument q l Å "new" method ä e V Æ	06:04
.i @YH k 0 Å initialize method 0 argument t	06:08
, TM U ħ gzl NY 6 i R	06:13

ruby space object underscore initialize dot rb	06:16
.B \$2 ^f MzL	06:20
.DB \$"I have created an object" 0:0\$ fH 6 \ M	06:22
.DVf` TMÈ » object initialization \ M [ L	06:29
. • D <sup>TM</sup> C <sup>a</sup> class Ž • functions 0 methods ~ Ruby 0, <sup>TM</sup> Šc	06:33
.i @fHí Āe ~ Ušend gzldef i ŠC ~ class	06:39
.i @fHμ Ī underscore 04 ž egz R	06:45
: • sfzq • MYGÝ B,Æ4MethodŽ characters ¼	06:48
(question-mark)?	06:54
= (equal to)	06:56
.i @ŽÈ ¼ ~ method 0I <sup>TM</sup> C	06:58
. • ŪŠBV¼ [ L	07:02
.N ~ bĀ5q1 ~ gedit „ bŠĀ, gIkRuby ĀER0' L	07:05
., Šx <sup>ċ</sup> class underscore methods dot rb Ā<lgzL	07:09
.i wVwdq1ĀeĀK ž k <sup>-</sup> k0} ÷	07:14
• M <sup>TM</sup> U <sup>TM</sup> NeĀ <sup>TM</sup> uzg ~ yxŠD 70%z D <sup>TM</sup> g7bIk \ W	07:17
.Hí ĀeĀ class q10 <sup>ċ</sup> Animal ä ~ VĒ	07:21
walkgzlbreathe • k ž Žk0} ÷Q	07:23
. • ñfí ĀeB,Æ<egzĀ end gzldef VâŠt	07:28
.H> 0h70 Animal object ä ~ Q	07:32
.B,Æa Lg0H <sup>3</sup> animal y k0Dlä ~	07:36
.HÔ q1~ Āeq1ĀK ž walk gzlbreath ä ~ Q	07:40
., <sup>TM</sup> ^ YĀĀxž6 [ L	07:48
., <sup>TM</sup> U <sup>TM</sup> gzlBĀi R	07:51

ruby space class underscore methods dot rb	07:53
B Š2 ^f MzL	07:58
:i N IÃUÃ\ M	08:00
"I breathe"	08:02
"I walk"	08:03
.• õfـb	08:04
.• GwE lwalk gzlbreathē kز Š ä \ lēYi n kž	08:05
.• ÛŠ\ IŽŌi ēŠ3 iHĖG lputs lfHí Āe ~ kز yŕŌ	08:10
.• D <sup>-</sup> bŠ <sup>3/4</sup> kز á lzB,ÆUgâquestion b1 ž• ÛŠŌh×	08:16
.N <sup>-</sup> bÃ5qŀ~ gedit „ bŠÅbĭkRuby ÆRŌ' l	08:21
class underscore methods underscore with underscore trailing Đgzl	08:25
., Šxťunderscore characters dot rb	
.i wVwdqŀĀkز k <sup>-</sup> B,ÆeÃUgâquestion k0} ÷	08:35
• M™UŊeÃ™Uzg ~ yxgŠĐŕŌ%αz D™ŀg7bĭk	08:40
.i àclass „ àlz↯ ä ~bġîÆwVŲÆ	08:45
.i ŀgquestion mark b1 ز breathe VÆ	08:48
.• DfWE l~ ä™yRŠ i=zboolean x↯kز , l	08:52
.i Bž Š. ěHÆRuby t	08:55
.i @fÔ <sup>a</sup> invokeز Æ™GŠeŌanimal dot breathe question-mark	09:00
,™UŀgzlBÃi R	09:06
ruby space class underscore methods underscore with underscore	09:09
.,™±52 ^f MzLtrailing underscore characters dot rb	
.čñ IÃTrue ~ iH#^fIÃ\ M	09:22
.• D™ŀ ĀeÃ walk Ōmethod } ušēh×	09:26

• <b>equal-to sign “=(value)”</b>	09:30
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, <sup>TM</sup> í Āmethod ñfD <sup>TM</sup> WE lí , "=" ô nÆä <sup>TM</sup> î ði=z	11:01
. <sup>TM</sup> Ý qgzL Ñi=z ñfD <sup>TM</sup> WE lk; zšÑ!z qgzlč 3Đs>ŸzÑ 0Æclass	11:05
.B Šzez [ ø6,, sfzq	11:12
.ì @Ž Ü»• z6sg lkÁ7ł	11:14
.• MNŠÆ <sup>TM</sup> eByfleĐl\ ıY:B ez Šhl	11:18
:š• z6sg lkÁ7ł	11:22
ôî C` \ ægz ñfD <sup>TM</sup> WE l», g lkÁ7ł	11:24
.• ï ŠvuÑ/Bz ä <sup>TM</sup> k0± í Ñy Mzl	11:27
.K 6contact@spoken-tutorial.org ô nÆ] âYh×	11:30
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