(/learn/machine-learning/supplement/NSGSj/octave-matlab-on-gnu-linux)

(/learn/machine-learning/lecture/6Nj1c/multiple-features)

More Octave/MATLAB resources

Octave Resources

At the Octave command line, typing **help** followed by a function name displays documentation for a built-in function. For example, **help plot** will bring up help information for plotting. Further documentation can be found at the Octave documentation pages (https://eventing.coursera.org/api/redirectStrict/jz-klkM5MEwsVvv2aQFQOCnO7Df1P65xAdekY0F2xqIKVBPZCdmP-jPd9NKjEFmLzX7zrOYIykSEF3VXJSsKng.sjkxiWWizLKilbhD-C1dZg.dYE9qT-7j7igugbJ6f-bR7-_ADwX3ZBKfEiDDRPiMWuqZupUMwx0TITQAOpUo6uhMBkfjmox2I78Ds_ABHopI4GfGJmxyZbA4Pzs1qjA4tl1Qh16k9ADYMCDIvNjsSRph-FIyPhhILy5cOG0vQVbPDM5buqHGLOXgQcgsEQhAwetlR2Nxk1jMGRj93__JrYjsphejkw6rgLuR0ZsHz8q2nWmodMCOkvnr8ovL-OdZtCPdYI3pk-Fxm03EVN-_QJEi5k2SRB9VwtXJ2yxcuy-yhRlo4tlJYkbO4qTmPbnjw-yxepCYMAs3RkXL9yEqodGos-FjdC_bRFKdJXdPmWx3KWVW3MpItwTNL7ZIb5pGRA).

MATLAB Resources

At the MATLAB command line, typing help followed by a function name displays documentation for a built-in function. For example, help plot will bring up help information for plotting. Further documentation can be found at the MATLAB documentation pages (https://eventing.coursera.org/api/redirectStrict/ooLpa9BP7eVvF7Wl5fMLkB-EVoS536cWBSTZp2F2hvuYp221JlI-HFTSd8wjqyNZu1azKUncRWpqi4ltSbMODg.z4UydODHy4WN-KEzOUWCDQ.F0G9b-HAv_QECSg3K7O-wivEQOmCfBD-OSLFhoeY_8iS5Rq6PvITnvrh1_cnBJxtgk7wYeSguWpLq4aQ4nicl5-UzaX9qgoVwG5_pgl7zHkQbIi_tVZJ7jd2T-DL9-F71VVBiOPkjqe1vO-qqPAelYMFZJFASQaM1eNQqqJC2PklWBBI-DlyS_4z3rtcp5QviONu2dtRqZ0nrvjnFoqKY7HcPTrWKjF2nBC2WiwozhqeM_1bTElljsuCMtXTuGphc49JP_VYQ-M4YFMXWt6MUCnEKXuOw864sFmJNUm8wPSq2pslvDn57PlcA41kW24U).

MathWorks also has a series of videos about various MATLAB features:

Introduction to MATLAB

Learning Module
What is MATLAB? (https://eventing.coursera.org/api/redirectStrict/hbVdOY8eex-INNeK-74ZB1LU6qNLRLTSRnIpOzxQ7q9hCncV2E_87iK7We3CheIOvpEy6dZZ47DpNiUgzb9nyQ.DYsKZH4V4iNDzWm1vkBmUA.bchSTuOURfKK4rDBzKpxXf6_8dqkBbJDGMY8BqIC-ezsLdXA9Cn0SwJPq3H3oEmtr_Ir0kDVM31inGdtnSpgySkCLgeJ4uhuCMZBtL6-TXtgg9p5gcSFH9BjJcK6r6sdb4
The MATLAB Environment (https://eventing.coursera.org/api/redirectStrict/3WhhzGRAHHFigvITc9bq9vOniazpEpTCiZWBNdYxgLAcgrAopxn72M1MalqrbbfPppbQKIsmWf9WTF0PSkGYGNX7Q_UDfsstlskUuIGZ0Gd0YNWbwsc59r53AAFTcaKUcCOgCkIFVtm0J94ycigFSCX8BpcMbDrdDaomh_3HVQjmXBJ_XJsylmJ9rcUHvE3QKkN15sl5cMPrpHj_GBt1AunbO99nMpAgTsk9SRDofOTQrIUk_lzgv8kLkEiT9GSqyAR4eK3UvfwbB5al4ogDn9bw)
MATLAB Variables (https://eventing.coursera.org/api/redirectStrict/XnaF1XCnL0pKMkACBVzdX9dkTluH-9q-xZDQDcg20FTRsywDcHJahMbMu_6OzIdrJkefgFKlqxLbAKUQjuqxTtwyNWwYK0bajmTJX7KkQkT4bVacRwpBKYDaLYQNzqttws1D6AzsccmrxYff340xYRB2Mhg51bzd9lDOVZbN_HkzHJgxUyBzqAmWfwCVHQYZyTrBODQZUEjtdhKxVapzyTf1vudCTPkvg2r0Yc_QQUKgGVmiEthcgSFtp-LE9O7ke59ICr7qeJOAIGzH9bo6j0ZK
MATLAB as a Calculator (https://eventing.coursera.org/api/redirectStrict/f199xOY5iudRlDWVBLpGjZ8JoAuNi_p5yQwklK98lMVVeoq9KXoTnqw.GmoLt8RtTulJTeu9GZ7iMcKkS2iXUF1Ykb_du7ZfTx_4gTxvOn3on-7LRX97nZGUozpNf8dS6mvf7q-3N0iPbKlvxS2gGwck6nlkr7rkk6YxRK7asv3svjy4xye61QSwFrKeFNFQSdBfS_dKDOqHGdhDRqqZi1LPWFi9oO1aYcVg2MaOSDNIrwc4AGmDG27vi4Y5J8vF0jHYKj7v6jqlVeDfmve5Wqm

Mathematical Functions (https://eventing.coursera.org/api/redirectStrict/K42GQg7wEbG3Hqra_VQSZr94lsFdXTH5ZQXkQbrRVLhsJ_hFLx8D lzPOJgtQB8lLOjEjg.UsZ7fGICLeeFlfMxdhe5wg.2HdDKBTYyfoNzkyKEebC5y_xCgyzGGC5TDoUid8myWSr3QqkKaE_mNHYhvCvJJthssgnCR6Bw PtM2nGIGyk9xMpmN6irl34Bt7tf3QIgHr7eOs97jmIv5X2v1adcKhCLIISwCmEwnBR8h3VYfpQknayuu4NHXWU1_zOVnaT0gUYOdueZwzWhFIA IA)

Vectors

Learning Module
Creating Vectors via Concatenation (https://eventing.coursera.org/api/redirectStrict/hPuDNRlWWOckiYvRLbJcjSTSH2C9LQ4BbrpE_7zqj9AL 78_2WQBlQU8GkYtVqCdsGioy1e1pMa1GG23UIRm1C7zwhzbKnkBGNSaCo64a1x9hr7RIEdq5IkrrxTGx3JFEmLPoM9awY9cvnxefvwhdwN4an oGtkgFsQANPNj738YObWqnxCUtUthaag1dvgJ5AVfbUT_mUYb-Xg39s8nqCYmUm_ekZQ1sidRn5A1T3jiajyvEg)
Accessing Elements of a Vector (https://eventing.coursera.org/api/redirectStrict/gftuyS5-Bfo4SxAIKEFEIgk5HbWwu-WbtS3-phfOI8VohmU5 WJst2ihtkw9vYWOyLsXaizwp8Wd_Sms0t2lNkWo-VGwFSjvf6fnSye6DvWFpiuBSYd-xAier70ZF2anGyhnGlzpHlChlUZXdtK4r47wGxDJrE1GTZLF d3IRwmmJAx2oUycu4OAE4AogwkOxt5xhL4KtQOf6DDqd-hmsA_ZMHJy4N0_YC_LpcanAkxxzAZSmx9x67zKmoLy7cb8l0nAPuVutw)
Vector Arithmetic (https://eventing.coursera.org/api/redirectStrict/hVNyctiLFKYmO0lMcUcxrs7n4VcGZbShu3_ndqlIs3zRFMaMrUzZVRwfLZs Y_4gHy6B56PMbTDvJ1aMsIBjSMyyOBxNQqxReFZHaMj5KWE6RdPAeB1E_b5DvgywGZC48asqfmxXduHKJ5o-JNgYSqyi0VbJY9ZnvQAy0CTJZde bcOjcNOlNv2wekNniC3CGxufur1sJZbawOCwnRK9tHm6TxjX8abDQve0-37F4klK6jYmyLEubetzyK_xmw76XT_gKMXuQglY)
Vector Transpose (https://eventing.coursera.org/api/redirectStrict/6-isQCOWo89SZLaY7Vf905uEDSTYP5Br-ss1Na5NtefYiJmnevm_qeA6EXI vcqT8McmLS7f8hlrBJYfJXN26j1VnRLjOlodPMD_DJb-QoNfh3VD-2GJMG-X363rhCEKVTPbtxLvSQfHhq7fr-hlwz_ovOGfrNqPMEg_BEjETUSoJ9Nv 9ot_7vbDTUnhvUOvfaAbZ3uPxdk29YvjLruz4GITIlSo4zluEmTzerHeXnllbFlyUoui0tIotg4JGiJpM)
Creating Uniformly Spaced Vectors (The Colon Operator) (https://eventing.coursera.org/api/redirectStrict/twBy_aD2vUKpOZSkmuscSaedKsgdWPZM377bSxZXuv184yp0G_N3LgHpi79EheqqedIMF9 ehRWsFH9qHEsTnRbVUgsITYXl4Yj8lKt0ve-I3Q3Xbcc4J67XC1F7sk9GvG3kM0TmXmgS1gprMaim8YbYpaukWEIbdoUGcZjFWVtDGkc7uXv9NQpkDfF8Y2y0l0I2DKsB5elOmJvjjFsbBcUhxsg
Creating Uniformly Spaced Vectors (The LINSPACE Function) (https://eventing.coursera.org/api/redirectStrict/mjxgAAPB-LNFHhYrHNJeNF_ pLuyWz_OfdCyCHMgz8BS3HDVPLj7nSSUpOjQvY8gQFOcjneWgR3yevHbQNphJC_5gsRUfbmQ_PzdtzbSyZeE5Pg1ZeoUg1-GxmIVwYRuEGvW MA6AVYNbJcVe-r1_J-ZgQwtLw8jv_a_yeHTYgre6mwYCAAHacKCx8qSz01nmdBMAGA7BqalFbOGbHp8BXuYL0ZIt_0MY)

Visualization

Learning Module
Line Plots (https://eventing.coursera.org/api/redirectStrict/GMrjh0yIAqdNwPS1luwH2KLH8oz-EySuDDVXVjWf56MWUM4Hdkc4pYJgC4bd_ecG3LEix4phgtE53NBXDzYT8g.JaRnjKSAaIInd5QQkd14IQ.nDYeawTFEV9Iw5EfUbH_60DkfwvcwS

bNT1gZc47vZolSDzoGMEafAvpdi5G6Hcv6TMLb9HPL6NsKK6r46El-PbxiWcZDfBo-EVALhTbKUr9dWkB-HDS6T5-AC3XhgDI-9bXi-PWGbR3sJfC

Annotating Graphs (https://eventing.coursera.org/api/redirectStrict/8JrPNdAfJlPiXtHArASE3iRUAVZkzEbG7jQuYgJbBa7WrLDKh6xw1TgChPl
EWFGcLgQjbyvxIx8MQlZEEU9qpFcmKfWAK2h8Qgw5_DfqetsWZRyRiVzHwPMkbfLlbQDrn0u-i8oUe3oLet1Aiwq273F0xJryk0bD1nprTvL4J02F
jGdY41wo3ShewOPqJ3DNaL4jaCOQlXAVcZRUG5qp8BbldY_E25-p6duRtzox4bZ13Bz3CRha2meQIRhFt9SGcXJsOYMAWdJ0)

Matrices and Arrays

Learning Module
Creating Matrices (https://eventing.coursera.org/api/redirectStrict/k60VRb5Z5pZprwQZ99SdzQyGRq0C-9L0-4QwMSJA63dTkIqGtVIim0vgQ
9QxBos1ZEPwBJUQzlcQ.XhZdj9GGO6fKcRkPcEHnAg.Tpoq15M3Zv5bqEcJNeQBIgWqf_VETc63yCWPHfzP1TLgUg2i_KFWwL8ZG7LDVYU32IoN
gVfiUUHOe-MJu6xjqwgapSRcNbzerP16eS4XDPU4POgthLrvE5qLARJrbxTt3KhKzjLrxj1RfLErCssJwmVhDo8nULqY3iqBI253OFU03winb8-
pob8idV2B0S0qM6wvlKJXJXtxnsdR5kiaOUOUAPIxpEB9hgWUUvu015xo1RtWh0)
Array Creation Functions (https://eventing.coursera.org/api/redirectStrict/XO2MHbFxCAGbfir5SJQcsCo-NCN3E4TDhxPIAZ9d-UfSGc7xx3rR
fxvWOSJuuPFd6eLLqz82qVMADw.4_X8VrxqsxdW9RveH7n8PQ.HnKxH3cV9fF9UQHBg4qvnGTzLAIbgrMqF22ZfCPrRMfXl_eB2kYmXO4ngsLs
Q9VhBw8O5uF4BzvxON2ThLid6Bq7xoJHQpDwlupNhmXRTw-GIwzkz_4HQBwHrMe86w3YeKvHKlyNF2Fq-CBozl-1Jwk892RJbls6E8-joeGheIq
pemvulQUHIrgsMlzMjwrKwLebvt31cmnaf1Wl4yZARxlwFYsAnaJSkoXUjRSf87A)
Accessing Elements of and Array (https://eventing.coursera.org/api/redirectStrict/y3uzbCNdc4PicmTTVrCH3OFuzrEkqxxze1hhwNGblWXJU
T7R1kg.vxe6fsX7MVqQJConKUyMLQ.VU4JtASppaaPAYGUIjRf12xSPdGSYG8Tp6ovEjxy08X94-aLSjIBw2zE61fymjoTB-bdj2JKlD8dK_mM-3c85c
JEDsMSnzEZuKjrgAdTbQEMnrhY9zWhfFTxG-gwaWiAYQa8v2gY-fmr63tTUw3kVhYzPps_BoiP3hRJ7KcE_j8QxdzCdQtRN1UQ1CnEu8lG50a3C3
Array Size and Length (https://eventing.coursera.org/api/redirectStrict/5-EbNDaBMwKSauctlQxyjFMLGsHOiw1bUusC3KiJLiZvfcmSJhTP1O8
AnZqaAt99jQA.RxlEtxxDmFdPg3bvRiyMzw.swzVZUewfhLi6K9QApPPyU1WgVTUVhMSRxHQFI6WIOfO4YUwWvBpoOVzFmeMm6Uozynvlahk
rsYpRDZWr16PV4RulqhwF2wc56s3Bw60kvHQ9d3J5B0nixpri3mk2INIpeXZVXJ2I943crqS_ZO6FlRMEqEUgrOutpxDRwdMR_hQ0NhSAKj-uzB4
SZ6A7Wi7hRKBTm_qxJfuEofAwdmPHNVdGlFaV2Bh2f629LzCaZFocqIrk)
Concatenating Arrays (https://eventing.coursera.org/api/redirectStrict/4xVFRE2ZGYMbTUeknD73rpvA5Z9BgoM4pvdVbYEpZ93TkxsdHDGL
Lx3vqJZCoIb4Tzg.uk5a14ni-nmZUmt6w5hy_IsSKJFoRdQevOYMNw1zRw09KdWJ5bf7-
z9S_wmSDsHDUMGfn0n4X_NjI4vCyR0ApL1DKuvJ_aDBA2Gbfo7BuS1eKOJBsDT6wzUw7KwnW76ryP8tlEAG7jEastUi9OME20lT3_KCwnkvtneH
8rIz1YG7hI1FhRn55P9w9_kshE_z0Qwi0WV0PkvlHcE1tFuuRE1v_VMe-BRkfSfkjneIZTx8Szdxmg)
Matrix Multiplication
(https://eventing.coursera.org/api/redirectStrict/vpsvsgnpqZUElfP0UNYlspPqQ66ICmaJZY0_yjie7cEMb000q9pCWb2r5Y0uX4Aaq0YLQjpS4s
ad1FteLB4VeyiLD1KJJxmnPGcW6o995DxB46ssSAy66gU7qyJxy6l8tP5BEhiKkCvvICX_BDAp6UCtZXuIrJ0aboPGuqoQU-uZIdjxuBG7fHv0Mxzp8
BrmXKnxHBdTIvm2nMo-_MQMoSOJh_7GT-t4Dc7z-hG3-J-KoMNmLU1u31Uxtztxj4AiCRBnT6jAoftcwDKln6OU2E8j9zSg48gyc8NYduXdQ1HU

Programming

Learning Module
Using the MATLAB Editor (https://eventing.coursera.org/api/redirectStrict/keA42LPqgLlPWICJu6vVs0ic14G_5thczxDSvOZkFaLGxJpGeQglm
ig4D7AmUof7b5JtgCTBFh4TJvxX5OcPooilyf81aZ_3zN_9utt7A5ffRW4wy7HlXBVKQH_VEvPpYdtlj5F0IB6yziyzrLvP2trEs9ewhTnSoaUcP8e79iA

k0rjk6gvjukVvGV3dnKRLPqe3cAXA0GIw8583L3k_A696YodOVA1SPF_hIsuyKAR924VBxVDgkN8g8swNtzlD51iqhbA1HlBGhckiVDc)

Logical Operators (https://eventing.coursera.org/api/redirectStrict/vLM9jNeYCTq7nA6uWJhO1wOgxbU_rCNVy-bBrFLCqoVZffeIMfPPvoAl1r
Khd2ZJsNA-Spib4qb3PzXjk3_HL0hnIIIUUMLFeOrLbLDRBcSSYv2-mt8HXd4GVEDc3yDn4gtoR1Cu20EfTSYR1CmH7h-Ok4WUJyLzWn7Xq_7Qar
COVzxng2UoiUgCiSZ3I9I7MZS7nhKNsopM5kWS_aWVWai2DztAvQoz3ntXeTlNPkKvHDpicZpnU4YN5e7o62GpyoDKSA)

Conditional Data Selection (https://eventing.coursera.org/api/redirectStrict/jaJeOLPSYKM84bgr3L3KK4ESJtB6mP094cbI_UefNOb8FlSRUDX
uZxYue5XxaZEwGqtlp088AC6bt69FNw077VcpSOk74PeOaHr0hwMSeDJLJDLZ8EiU1Js8Ndc55ZU117Hf2cCq5WwBhvC66dAoAZPRVTvoG8hd
SHL7nmW_RJrQSU7elnv_mIJ_x2lMwa8iIsywgVXicXa76XqNTp_ggi60)

If-Else Statements (https://eventing.coursera.org/api/redirectStrict/oa8X1dSdr_Jr1FZ-bq9kpcpGo07Gjp-aBOr6XS-8dFHUGEf-iRLY3UcyivUhF
6g5ISQy4LpXFu_6WUiJOGuSaap67yo9ySD1iqOmRNGdvJ5AXye_PkPA9PFumQzcT2DAZBv9k00u22vMQl_TY5evI9cH9ogHArO00pWecT68ods
XX0ZX9qfVdEzP4nqJaeavydd4uKCRiuXw6dp-MB5y1J_CU_0L-kCR_t22jBqnyAxJVrfVXfgsb02Q10NgIVzA-GDPi-Y8)

For Loops (https://eventing.coursera.org/api/redirectStrict/dPIiSCHeR8AwBRkRxh-0Tbj4NwcREHM09cvKUsqcbrg6nem-mAZDD3BVEQYJHE
AfQghArBituP6p5D4kM-EpZ-TzaM5TJ9HKZCJcsPh6-rwpv71ugO5GUmW-dc93pR_YOmiu7DY8knpxex7neud9_dki8s8pAldhYHrkclcyPMe6nG
NdGsPsqXdlELG7j3gdbzBqLiNHYFKQ9zuqjRHv0jgU7rH70OC2C2zVKf1gVowG3m1tCvpi5dJZqtKbBlpD9heAVtHCoVOd007pgUyBRuKpZecNB

While Loops (https://eventing.coursera.org/api/redirectStrict/N9dRCaSX0Aw430I5-agDXp6Vz-K3W_pj16ow_AkHicX4CU0xHvHLFr9KXNq5aV
vJDcDk1hGAAFCYo9OGXJQ.P7P1D7APZRI_qWp22N9UVw.kh7iP9uLjwpkdQvwOljSsWufltK8yAFLLYqzArUBzjcVwEq1eS3T-9t-QlcI87yVTScYQ8
uX_O5K2GDXqmK_NjanBrzogJlP4siqgLlk7iAymclox4wcQ_TgIER2GQ2NOsc4sTSlmPBhW_sZ7B-50uRZpQh_qJLWdeLLHUHtFMah26l0kZp3Vsl