

Breaking the Vigenère cipher	Season	03
	Episode	15
	Time frame	2 periods

Prerequisites : Frequency analysis - Vigenère cipher.

Objectives :

- Understand the weaknesses of the Vigenere Cipher.
- Use a software to decipher a Vigenere cipher.

Materials :

- *Eight different ciphers, available on paper and as text files from the school's server.*

1 – Deciphering

55 mins

Working in groups of 4 or 5, students have to decipher a Vigenère cipher using the instructions on the website :

[math.ucsd.edu/ crypto/java/EARLYCIPHERS/Vigenere.html](http://math.ucsd.edu/crypto/java/EARLYCIPHERS/Vigenere.html)

Plain texts must then be punctuated and paragraphed and then sent back to the teacher, to be graded.

Breaking the Vigenère cipher

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Document	Cipher 1

- Your task is to decipher the cipher below, that you will find in the Partage Profs / Terminale Euro folder.
- Go to the website math.ucsd.edu/~crypto/java/EARLYCIPHERS/Vigenere.html and follow the instructions to break the cipher.
- Once the decryption process is complete, recreate the initial plain text by guessing the punctuation and paragraphs, then send your final answer to mickael.vedrine@free.fr. These answers will be graded.

EBGIQ LSVRY ENJON CIUZC NNQPZ PCPQF LHIOB THVRC XITXG YAEYL
NYPDP LNGCY XUPCK THFGM YXGBD FFNIS YZQBR FHCDC WSYRY ENJOK
THFSL PPKDY MFAMM YWGXR CUVOQ ZHKCR SUVSL EBGWM CHKXE TNYSJ
WVGS L VQNW EBCDG DAQSL RNQLC SUPQC ONJOK LHIYG YAVYZ PBCXE
PXJKB MYGXL LGGNK ZCUDT ZHNSN HCILW OIVSL RCHL HCUON LLGXR
DVWDF PQCC L ZNIYG YAVYC XVCBP LMUDF PHCWC THUYD LLCCR SUVGY
DMVSJ WJQCQ TVNOZ JVGSL RBWXE FHFOP TNVYR SYYY P WKKXE PHGBY
WUPNN LLVSA FFCBJ JIPDF LNDSR ZZKDI YIYXY DNJOB PUVRU LLTKL
EBGGY DUNPP PXUZY YANOP LHFRC EIQUY XITON ZMKDG GYCZN CICMF
EIVRC DCVEY ECQXY YXJKB NIPMC YNTRK PXJSQ XCPNM YN JON CIUZC
NNQPL ZNDOG YAJKL RYFSL EBGWM CHKXE LHFWM DNRKP ECEEJ LLNIM
YNJON CIUZC NNQPP PGQFG YACVJ EBGMP FGDVG YAOYP EUTPP ZGCBM
FHFQK EIPOG YBKCA PFNGY WFYSR SUUZM ZHUYD LLVRC HITUF LXVKI
PHJSK QCXOU PYMCY YXTOB FWGNR SYUZM ZHVYQ ZGGDF THIVG VYCYX
TFHSJ PZQBR FHCDC WSPYM YYGFC CWCWC EIERY YAGDF PVGNB THIRC
CYQBC WMGDF PSYYS WXJKT PXKCA ZPGBC ONJOU ZLNNQ SYCFG PMVWY
ENTOQ DCVGY DUNKP RYCXB SYCFW DNQXC EBCDU LMEEP CYPDJ JNJOM
MDGMR ZZJSQ LNVOL ECQXQ LHFKR DIOON ZCPDY SOIOQ EURVC SUFLC
PHJKK XYTOB THVYG EUUKL LHERM CZQBK LHCMJ PMOYG DNUKR OIYXD
LWKXE EBGY WFIBG AJGNR SYKBM YLKXE THDYR SBCXB DVTKA PXJSQ
WYICY RUKXQ ENJOQ EIPOQ ZHGSR SYTCG OYCXB SYCFC OBKCQ SIWVB
PLUMY FAJDD TLGKL OUTOB XCUDD TFNOB SCUFG DCQXZ FNVRC MFQMI
DFKNM FNYSR SUHKG YNCXB THCZN CIRBG LNGDG YENSL RHQSQ PGQSQ
EGCY RYFDM PUUOG EUYKW QLQWR SYJYJ PUPNN PYTOB THUSB PUVDF
PZCBC YXYKQ LHQDF PLDVM NECXB EBGWM CNCBY CIWXB TNNYM VYFCS
DJKMG ZOUVW DNTYL RUPND CYURH FMVSL QLQXR ZZKDU LMCXC HMRYM
YCVGY DMJSL JUURC DNWNG PXKDF PBGKP ONJOA WURZG YADOF THFRG
XBGDS CHGNF TMJOY ONGXB ZHUDU LHISL RUNSR EFGBG QZQPY RIPIY
YXUKU DYXOP LFQPR SYYPK OYPCU LNERG YAJSK EBTYS RBVRC MUTC

Breaking the Vigenère cipher

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Document	Cipher 2

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HODEB TIHVT UWCGJ YBIRO LLQZT AINHD PDIIV BEIGE NHCIX HGKTR
VSHFE RZSVB VFFRR LPMGL RDTOG LRDPI UAGHT NKIBB IOJMN ZASFU
ARHTY EPZXC BOSOL IEDBK RAKCU HWETL VBZOW AYCRK GIPYB OIEGV
PNKHR MSIUT BPXGJ OHBSS CIXSP BIIPY UACLV BVIET BHWEJ TESTT
FRRJT NWOEH WIJWN GPFKE EOALR NXVBO IPBFZ AJCES PMKHR GTWVR
RZDUU SBICD JWUWR HNEES IHVRR TDRVP HPAIT SBICD JWUWR HZNGI
GNDEN BITYE LKTRV EISGY FNRGE RFBYS BAEDG VTRVF BFTNF TZWCE
SUGGB ACLFC JNUSJ SGEEE NFQYR NQGJG XEFHT DJUPV IHZNT GPSJT
ROATY BRHGA PEQOC DNEES IHVRR TDRVP ESHSZ NTOCD GEEGD NRLGV
TRVFB FTHVT EWTDE OGHDM RKRZX TKLRB DIJEF PTLFW UWBTY EPCPC
YYNFS OWTUS REETE OAPFS GCUFZ CRPJZ QEQZX KVAAC KEITH FCEUH
VJTTY ELRVO KTUSI UINGO QLVWB FZIEG ESPLC YJSAL EOJHW EFVRF
CIXHG QDATH RGLEI ENFGI MIAUP NUTUS CENBR FLACD SZNEI WNGVL
VAZWC GZNGV TLRMC ZXGYT RJTRP TUWCG NAFUD IEGEW VHKWU WRHNA
FHDTY EAWVH KTVAT CCIZP TRNHL SKEIY GVXNX WNGVO ZNTKG OEGGV
TCCIZ PTRKH EIHTR BEWRK BELWC TFSBT IMFRG OGSYI SHTDY IFKTI
XHGAD VVDUW HFFOQ OBNGI TSDNZ TSZTW LPVBE AEIPV XSFTU SGFFO
GGAIG PRRWI JFVBV EISYC HTKHR WGGII CCCTY EQFPI EPVDT AEDJV
TNKHR KDRC D UOSSK OCDTD THHFC IEGUS LAJOJ WCGKH RDDSK PBBTM
VNGCU HZSZS TTZNT KXTYT USSIJ TNBIC FBOZT SKOUW HHFLQ CCASR
VQZKV YJVXC YWNGA EKSSO REZTA CIHZN TADRV TUOCA COAUU LRTAO
XLNIG VPTGI RQTGI ICOD POHQP NKBYI UFRWN ZAHVT UCJGY TVTNO
LSJWC GPOHA XGYTT SIYFU EVPNU AARUO FTBBI HVPVD TOITU SZEPM
VUWTT OZSDU K

Breaking the Vigenère cipher

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Document	Cipher 3

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SIDWI SEAJJ GNELN IETHM YFAXD BYFSI RMRNB ATPVG ITIAY FDYHI
MJNMB MWPRK HMUJD GNGKI ITGIS PUZIB KIETH MGVTN IAABC QEBFO
ATDAK SORLM UPUZI VKPTN EEFOD KRNLN LGTMJ QRONO DPRTI VXCIX
DAJBN MIVKI EZRMV TBKEA SVZFE LZOTN EJCPS YOUKI EYKGN BSNAH
PUHUU OYBNJ TPLOD KRPVB DYOVK IENZO ZAOTT PIFAZ EVVER GIVCB
TKRJL UFURV FXTNE IZSWG SPFUA TDPVB VEAVU JNZHM FMDIE AJQIZ
BMYJN JTPVH AXDME FRYSP VEAEQ CEHMG NERTT XEIJU NMWIK FRCET
CURKA LZOGG NGNBY BIUVT SZOWU CAIKI CJTZL MNBYG NLCJT GCQXB
ROTXI PBGBT PXOAL LEUBK AOFPD ODMRU OKMXC PYGNI BFDLL IDFAT
YVBR KRBFU HKPQK UHKFI CMFXO UKIEY HMUSO UFPRE BXOSV OTNEK
IVSZG WFEMU RVZOG NEARJ DIHMV SFALT PHOUD UFSNO NOPPU XGZRD
EYAU UHKIV UVSZR QFVSZ RMREL KRBYF VUIKV XAYHQ XIEXP QKDHK
DBYBT BIUVT EDPMT UEJAV UIEXE ICJZK DBYBT SOAKV NASCR MLETP
VZOAN ODBNO NBYFP OTERT ITFIT UAEQC EHWUM IEJTC AAEUE TTQIF
LEUVV YPKCB VETNE IJTAY SQETG AITUX AYAER SEZHI KXOSE VNFRR
ABCFA YTMHV ARTWK IEOBJ IPTNE ZJXHK NQKDA SEBFJ NBEVK JVKKQ
CMITG JLUIZ NMMFR ZHMCF SYCPR OGKDB YFSOT CRUIU NAFNE CHIKJ
DUNBS FLOED VXEBE UVUSG ILMJM KSICU HUUOY JSKEG FVKTO ENIOO
AUPPU GRMNJ GMSAZ SSGIL KIEYW QDNEX JWTBS ZAEZH GYHWE PRKDB
FNEKT GFVYU UZXSX IEEZH GYEPJ BIJVQ DFSLA UFVSL AUZMY ONBYF
GAITU TIXWQ CMDUB GKIEC AGZUH ONSZP NIEJI PKKYW LSFGT PVSSR
EO

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Document	Cipher 4

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QPWZA FBAVI ENSZV EMGUG IBWZG MFLPQ GAZUC ZSHPA ECUQU FMVQU
MAJMG NOLXG AJDMJ MPWIN IUQAD QYFLK YFQIY MLWWH FBWXT AVDMO
ICLPV TYKBC DNGNV TCFOU FBWGY AHVMT MFGCF TIOBJ QMFWY BFGEF
DCNMT SYLAV AQQZM ALZWY FBWUC WYJAQ RXAKV UIFIT UYKTQ AEMXV
TYKXG XFAVI AZLPG I IJLU KYLBJ QLWQU FBWKQ ZMLIP FXWAK DYLWH
UHVAQ YYHWK ZNAVV TYLEK ENAVI WHGBV UHYZC HYDQP SHWBU AZKXC
OYLQO QIFEJ UWZIO QNSXJ ALAKC XZAVI QLUIP NYHCV FIAVF UWSBG
FBSBJ QLWPG DYAAV TYHWK ZNOPG DYABC XFTMI MHKWO QNZQP SVWOC
ZQZMP FBWOW UFVWH MMKIU ECFAG ZLGTN QXEQU FYJBG MNAUG IBGAC
INZQP SMVQH RYJMP FFQNT AGGBJ QLHMQ BFWIP PIFMQ RNZMY MSKBJ
MNZMU MQLPK ZAKLK RZWZG ZNDGH DIEWV TYJXG AJDMY MMAVU QYAVI
ANZMT BYGXN QUKBJ UHYAN MNWZN ALVLQ IHWGQ RNZMI GCDLU MCVEG
FIGSR UNQWP TCEJG OUMAG TYVTQ ENTWV TJSZG ZNKIV MHWIT XSSOG
UNZQP WNZIV AHJMH XYUBK AHOMU TIMTF TUNMY AHVMT QXSJK FGGZG
MVGCV FBSBD GNABY MMECE TYSZN UYJMX QHLPC ZNZIV IBWVO AMLXG
AJDMH ALYWV FBSBV TYNMT KIDLG ENKBQ DCWAC DYKWQ ZYJWT XULMT
MVGCV NFGWF XULMT AHLPG KNGWM FBWJN AIVWW FNGUC WYLPG ENGZK
QMEWT QUUKG BNSJN QNGKJ UFVZG ZIJIV XYS AV FILPG BYGXN QQZWJ
MXLWT QUVBJ QGLWE TCDLT QHJIV TYJBJ MHLPG OBATF DYFBJ QGKMN
HYKEJ AIFBJ QQZWN QUJMS GCLMM QYFWP NFGWF BLGDK PYVQV EVWQP
SMZMF NSLPG PYKMT HCFOC ZXLPG ZQGVF QLWLY TYJMV TYKBQ DCWAY
QHLIP PYSZN UYJAV UFDEJ QHKWO QNZQP SCFBJ QXSZM ZYKAQ RNZMF
QYHMU FWS DG EUFLI XIGUK QMLNQ DYKBU FBGCI TNOPC FUJMV TYQBJ
QMWKT QULCT QMAEK XFGJU QLNMV TYE

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Document	Cipher 5

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FOTBR JYBAX WKFZL TXLWB EXTRX AXLGR WZRBR XKWNK ICJXA TRKXW
GBXJX PXEPS TBAMY IYTXT RUJTX ILRSB LTVVG QZZII YPTGT VTSEX
QZLPM XBGJK MUYKT CMUIK BMXGX YJAMT VJYPX WMWKM KXRTJ JXMAV
JVANK VFWWM MEDQL VSDUI KTXZA MERWG JIDBR XAMKR WDFTE UYKYP
BLXLW BEXEE IBAXW VJTXI LRSBL TVVGG MNVKQ MTGHV QMIAE EYAMT
RUFZW LFZLB AXCTF ZKRXY JLBLG NTZEW AZYPB MWMFA MEEEI AVESL
IAVTT VXIGW STJIG LTVTX EXHFS BEBZV TVMAI UNAVT RPRWK XXYFV
BGPVX AATRU HZTYX VIXTK XJTNM AIDZT MBZVW AXMLV DTBOI FSJTE
PJTPI EEEJB LFEPG MMAIG QIVXA YJZXM LVNZU HHPJI MLMKX BXTFL
YBAXC CNDXX PJJEA XVNVV PHVCI AHYXY JQKHA EBPBV LFWJB MZVWG
ATRUN TRTVF ZVWML VHMGM IITNM AIZWP XTHJB PXGKF IAZXX KTOXM
LVWBA XCKJT EMLVX BHKCF KWGXT RWBBV YCFZI EEEJB PASJJ QGAES
NBTGX JBIMV LVIEB MLDNT WBRKJ ZXLXY ZOXS VS EYQGX RKBZX VOZSO
LEESX WYBGV XTTIM EYWTG SKMMK PSIQL PAMTM ETLME FAMKS ETUBV
ECYMK FWINO AMRVC BWHSI FVWML VSLBW RFYPB GKRGW NMMKG MVTYJ
JBATX JTZMH JKMQG ZSEQG ATTGJ VLBRF ZBXKW GFKXT RZSBX EPZLM
GMWGJ KBXWN TCEWE KQMTL XYFDX YSLSL LHQVT VXMST TUIEE ZSBHT
RPBIR GSFSM LXVZT CLECS JTBXZ VXQGM LRYAM HVPGM VTYJJ IKTG
VCBMI KMIML XLUQW PSLQL GXZVW MOXRY FDXWM JHWOX VVIAE HSUUM
HIPVG MEBIM JQGTP CXWKM WFKWM AIIYP BGKJY PHNKY KWKXB RRXEX
XYJZX TVVXW FXTVT XEXAY TPTOI RQMZX RUYPT MXYJE AHPVZ VBOII
XMBLG RWZBX HZSIE XEKMM KUEXG GTGSC IUTGX YJGKX VZLPM MSFTB
AXVGJ WIEIJ FGAHP UTVBY LVXKT KVPNV ZMLVJ VMBVV ZVBOI IXMBG
EJFKD KMXMB MAEKR MTGWY JAVTV IDQGZ LZRAX EJRS LMAIJF KDBRJ
NLXML VXIVD FVHIN LIKMM NGMMJ ZLXGF SBTBR JJDJK CKMQG ZMEHT
NWMEL PBFEE IBAXW RHSHY GFZZL XAYNK AVSEY IBGWY NUTGH KMMLT
GBFTK XEUDI LBXNJ ZXMSN MQVAX YJZXI PPNAP XPCFT EMVZG IEFCK
MATKI KWCXY SIFOB OIEAI ENIFK BKNI

Breaking the Vigenère cipher

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Document	Cipher 6

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PTLPQ HMDDL SEHHL PGWIU OIRWU HSVDM KFDGR OEEJP WOHTQ VFHDJ
PDYPA RSDCF LFXHF LDUDP JUGXM BSHFS PDHDA HLATB IERPS ZEPHU
LLAPQ IEXCE ZQJXB AHTNU LRTRS YIDJQ AHPIG ZTDHY FTWTG YCJGG
VSXIW DAHIF LCJGG VUHIF PNPVZ VUIIF LMHWM YTANY MTTGR OENVM
ACJGG VUHPZ VUIIF LLPCR LRCIF HTHDJ PDWPB OUCVM CEGIF LSITP
UOUWG ZBDPR AHTNQ AAGIC KTDQC JOBTA BRXDS ZAQDS ATWTU HYXCU
OIRWT HRXDS ZOUIF LIGCS TBTGQ BDSTL SYKPL PSWTB ZKNLY YDLXR
OAHEJ HSWHM TEDUR OEBTT LNQTA HMTRS YIDJQ CEGNZ YITUJ FCJGG
VUHPZ VUIIF LSWPP WBPgz LDIWG UGIWY AWPHA VMXCE CEGNO BIRZJ
FTDLY YDIWC TTWTA BRXDS ZSFJG KWTGC LXIGC TEANA BRXDS ZUCUM
YTJCY AEANR OENLC YECIT LRNVN VDPIK HKXCE JOCCC JTXDL ZIILY
ZAKTP FLDCE DANIM AHXHD PSWXL NGGDS UDQJR MOGHM SISIF LTGXN
DAHJQ BAAAW DEAAU VRIWG ATWTA BRXDS ZSFJG KWTGC CEGNQ TAAAF
HRBAC ZSSXD MIRJJ ATDUG UDPCB YERZM UESQW JOCCM PSHTS YSIDF
HVTIF LFDJJ LSIIY ZTTDD HNNRP LAIJP LICIF LWDGJ KTWXQ TASTR
OEBKC YYBJA OICSC TACSG UARTP AAXCI PNSDD YEHIY BRPCR DHTGC
OIVWJ FSZXJ SESRF LFHBY KELXR OGGTY ACPGC KIHWC ZCDCR HICXL
NNDIP HCTDD ANTHO BISLF HTHDC CEGHM SISYY JKHDL ZPGDZ SEBLY
ZTWPR AOCXE OTPBM VNATQ ZNXVF AICIF LSEPU UICVQ LAHDL DHTCR
OEHFS PDLTP LEHEC JIPAJ FCJGG VUHPZ VUITT LRNIF PNVIF LCWTD
ZETBC KTDWY CEQTC UAILM YKDCR OEHTY PTHTJ MTWTP LWPHL VTPHG
UGATG UTTGC ZTTSC FEQPJ STDQC ZETCR OEGTU LRTCR HNDR OEGUG
ZHTXR OEGPL KUHJY SLNIF LRTLC YEPUC DAIIP HCITB AOIWC SIVWR
OESRY BGWIQ PGWIM MOCTG AHPSZ LECBY RICVR ORDJE OTWTU HTTGC
ETGTK LLNUY ZTXCY ZTGPG NHIAG UE

Breaking the Vigenère cipher

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Document	Cipher 7

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PHPCW ESHSW NEESW COODH HAJRS IEDHA PHESW HIGPK KFXPF KNLMG
WROHZ ECSTK WTZYW WNOEZ ASLXW PIXPS OIXAD APWLQ ENRLJ AALYV
PHPHZ KLPHG NLOLF ZFLEW WLHLQ OWTYK BAEPS HWLJK SIYDE KSEZX
PHPRG ZSESJ KWOTU ABFEX WTPAD WYDNZ ASDLF ZYZFV KNEQA JDZFL
QNETD POZWS PEESW PHPDT AEYFK ENREO KQFPW JSLWD WLZYY BAEPO
ENDLL HELDL OOTEA OCWLA IEOHZ WTPGW NHLAH ANDEZ AYDLQ WFEPJ
SACOK ETXFK PHLGW XEPYX WTPRG ZSNLF PAVPS JYQZJ IBFEL DEZYW
WSAPU POQEZ AMDPD REDEZ AYNLF JOENZ WNRPA OTSPA NEJPK SHTNZ
OHZHL DETCF WTFCW PHPPQ ASZQX WTPLJ AHLCV HYPJW OAELD HJFDL
ZACVZ KLPDA JTZLF ENQTF ETJDH ACVWW ZWTEZ SHLEE WYMPK PACDG
NTSPJ AARLA JMLJT AOESW NTSTF CSSPT HIYVW ZTSPE OMTWW ZAESA
OFPWD KWAWS UECDA JTSPK IURHS UWTFY ARDOG FUDET AFZCW PHPJT
ACZXW SIYYW NSLYV OATOA WCNFK ATSPZ EGSAJ EEDEG BTSPY NEPYJ
KBPTF PHPWA XRLCQ SIESL DEOZM XLPSS JDPOS TELYV DEHZF DEMPS
IEOLL PHPXF KOYPD EKPSX LOZCO ENYPJ CRFXT HEOZX BLPCL DENCX
YOOTD AGZOL DRZFY DHTDX WNRDA PSPPE OTSLL EAXQS ROCTF CMJDW
HFEZV WYDLA ZFLEW WNJZF AFLYU USZXW PHTYY ALDPL DERZV OSSCM
CGPOE WDVTF CSDLA ZFLEW LLPLK WNEWQ OTLCU NODDW ZLZGW NSTEZ
ENVHW REWZK PTSPJ QLPDX KRESS POYPK WIOMD ENOTG YHTPX KFESW
COODG NTPXH ASEHJ ACVPV IACTF ARDJG QAWHS USHTF OATOA KFWZG
ZSLYV ZRZFY DTDDS EDQLL ATSLI OAYPS OYZYW WSSLV KWQPD HANCG
OSESW CAXTF CTLMD ATSPY KDDWG KKPOM LASDS EDQLL ALPES CAXPT
AGTYK WIOEZ ALLOQ

Breaking the Vigenère cipher

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Document	Cipher 8

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NZEGB NDQHR REPIG OCBSV SPIRQ TSMIN GWMXU EEWVG OTAIV SLOVB
UYLPV VTVKP RPIXH RPQXV STUTB SDQFY EEWPV VPVIN RPZXU ERZSH
NOEMG HZCXO ETVKH NOMVV TTBWU OCQDB NDIVR AQMAV NNPIF AHICV
TSIWN BZCXN SRWSQ AECVA OQATR EOIWL OFVIR DEWLH NELSJ NLTIG
TFKIV TSIWF UCDMI EOELV LPBLR RPAXB FPDSY UEQSA FWWAR DAIWG
IEJCO ETVKB NEPIJ HZTIA OEPVR AEBSN NJWRR AYLXB OXCGU TCWYO
LPBSR AEIRQ TSMRG HPZIV SEPIR ARTIN CCMG UCMSS TSMEV RLVHU
IRPTY ANMWJ HZAIU OCQDB NDOSN LWBLR WLGXB TSMIQ GPWJG HPESE
LOMCR STOLG KPMRR NZCKU TZATB TEPIE UDBPR OQASZ EDUEY LLVHF
QFMEX YNZIN TFZIU AWNEZ IWMEJ AJIPY PZEIE AWTGB NEZSY LTOLG
NTVKQ ELBLB NHQRT SEIPB NDIRQ CWIAF EYWYT HEWQN KPIQR AWWJN
NJBLV NRAQN LWMVG HLVMG IDIRQ AETIN SEBEX ELPYE RTMHF NLKOB
UEWJN NJBLV NRJMT GPZEA DJMXG HPMET LPEMY LDQXS OCPSH RDWRG
HPKVN GLVHF UCDIL TSMOV NRLSZ SZNXU EHWVY DFVXV LTBWC OEAEQ
IDBEA TXWZR MPVXN NOBLR NTBAV LWNSP UDNSP UDNSP UDWRG HPAQN
LWALR LWESO BWQRT AXWRT TSMFH SSMWQ OHVXU ECMSA TSMHR SPZXN
NOQXJ IWTPR AAIRQ AXQRH TPTEG ECBLR TZZXB IDMJV NOAXU EHWVY
DOZSC PTVKN WLGJE OXQXN NOQXF EPAXU EHWVY DQWVG HPNME SEBMZ
EYWPB NRMVB NPQRP HQZSZ TSMKE OFVHO UENMI ESCRQ RPLJR EEIFB
VPQXN NOQXG HTVOF WSIXN GCMG FCQIA DTPEI ETVXU EPIKY ELVHG
HPVXU EPIKY EWMXF GZIRQ AWUSF TLTAN YDBLR TZZXB IDMTY UYOIF
TZQXF DPIXU EGMVL OYMOA OHAAU YEPIG OCBSV SPLSR SEPMP GCIZV
TJQWN HLJMG TSIXV SSIQV TZALN KPWJS NZWRR KYWAF WSGXU EPIKY
EOWIF TSQWG HPZIF GZWHR AEQRT OYIXB REWMF EMCXP OYAMQ ECQRT
TSMIS FZZXV NGWPI EOBLR RPAQH CSJIG TPZIN TTVKB NAZEP TTKEY
LJIRL TSQRT EWAIV TDAMZ PWGXU EOMPV GSBSS ELOPR SEWXB RXMRG
TZZXB IDMWO UEWJP OFZWR WSIXG HPMET LPLSR SYWXE ELTMM ETAXU
AEQXV SAIVG INQTN TTVKV NLDIE YNZYQ EQWVZ OQVEG UCIPF EWMGG
IZVSA EOICN TZZXB IDMAV LWTIN RYPSJ TZNPL

Breaking the Vigenère cipher

Season	03
Episode	15
Document	Cipher 9

- Your task is to decipher the cipher below, that you will find in the Partage Profs / Terminale Euro folder.
- Go to the website math.ucsd.edu/~crypto/java/EARLYCIPHERS/Vigenere.html and follow the instructions to break the cipher.
- Once the decryption process is complete, recreate the initial plain text by guessing the punctuation and paragraphs, then send your final answer to mickael.vedrine@free.fr. These answers will be graded.

IAMWX TCHPU OPUPR UOOTO HDGBR RTVIG HVRIF HVAXL OIHWV TVBLX
PACZL TOCAK OROLR UWHQQ GRCZO DOVIW AXVQO DXOVW HDBSD NYDWV
SDPTB DJWBS RVQBL CVZTB YJIER UGRVW CJBAB AIHTB RPBIF RJGAI
OGYAW OYOGZ HJQTD IHHPD TVQPL LYRWQ TFBWZ AIMBK IIUIF HDZLV
BMOQQ SOOZW SAIVF TDCVL NBOBE IMHPD NYVIV AHCJV SOWBV MVBGL
NAOVW CJBDR LPHQR NNHPR UNOVG SJTLR RHOVW AOCUV IHWZ HDQPJ
OYVIV PPHIP YNHQF PJGAL BDZQW YACZQ OOWKL NBOVD DPZBV AXHIQ
DAWOX RDBOR UOWBV PPFXR ROIWX OVPWX TDHAS RDAIU YNQPR OGRIB
SVQPL LYHPL NFGVD TPFIO LTCVO YJTXO ATPCW MVBGD FJFUR FKZIB
CJBBD IIGLL SXWXO IIOZB FVQBR RTCCF AIHLR TCWAR ROVIW PPHAR
UOCCW SCCEV AXVQO DOVIW IOACV TOVQQ KKFIF TDQIO LTCZI ADZVR
WDTBK RJIOK OPHKK IGRPR OYOJU ADBPD SICWS PJGQW IJBQW INDTD
IIHPD TDHEL LGOBW ADBIS ONWBL OICNV TVHCV QPCIV WDHPR UMCZG
IIOZB AIWUD LNAIQ KICEV NJHEK YVQWZ DJUWU LDCVZ ANBWW BJFVZ
IOVIE RVWVR NVDIU WDHPR UMGEK YNIKK AIWUD LNLIQ NJHIG DNIJW
RVQBR RJPBD IITZR MWCWN SVBLV CCCWO IIUBK AODIU AHCCQ TKCAL
TDCVZ HDQPP AIVWO DNHWG ATPCW ACIUD NWFIL NDGVR TDBBK AOQTD
SNQWQ SOOVW LTHPU OWPQQ GVBLX UGGIW IIUQW RVDQG LTTWU MNCXL
NDCVV AOHIL NDBOD NVPQO IOMWI IOGWZ NVTIF TRVQF HDGAW AMHTL
NBZGV HJKVE YVBWF CVGQR NVZKK IGRXU OYWOB IIACV IXCZV CCCWO
WJFSD NYOAZ IOVWX RYIUE AIWUD LNOKK IGRAL NVPQO IOMKR NQWVF
IIUTB TJWUS AMHQW SOVWX GCHAW OPGAK OPZLQ OOQTD SNWBD SDUVR
RVBBX PJBBK INPIV INWIP GJWVJ TJGPR WTCCK OROJX NXVWI BMWOK
TTCCQ GACTN SYWLI IIRIF HVAXL OIUD NRWBK BJMAD NYUQU LNCNK
INCEQ AHOVR FNCLR MDBIW IIUIQ DCOXS YDBLL VDRCD LDHGW HVHGR
UOVQV DMOEQ TJVQP ANWAD FGMBR ANIOD RWCEO IOWAD SOCZB AWCCW
ANAIO LOCEQ IOWAQ OOOOR SNWXB YVQWZ OMWAL TVRZB MJBWW OICCV
AXQWX NOTCO LJTAG CCQCV TJAIU YAWTO IIGIV RJAIQ TDQUR OIZQJ
HOQIV TDBOP UMYGV HVRWZ SYCEQ AGCVJ WDBLL NBQWX NOFGU OVRVR
RRWTO IOGIB AIMBK IIUIE OPHBL NFZQQ GNZCO LDBOG INHIQ TACTG
SMCJL NNQIU OGZQQ GVHBZ IGWOK TICZD NTKIU MBZWZ OAZIP PGWOK
TAFWP AXOJL NRWVG ORBWL TDGIQ AXQWX NOCNX PVBLG ODBOD COWDL
TTODL VDRXR ROFIB AGCNB OPHPD SDHQV TJRIB AIRIS RVQBL CVZLL
SXOZG IIUWI TCOBZ OMBWX TICBL OIHPD TVQPL LYRWQ TFBWZ AIMBK
IIU

Document 1 Cipher 1 : plain text

They say that the prospect of being hanged in the morning concentrates a man's mind wonderfully; unfortunately, what the mind inevitably concentrates on is that, in the morning, it will be in a body that is going to be hanged.

The man going to be hanged had been named Moist von Lipwig by doting if unwise parents, but he was not going to embarrass the name, insofar as that was still possible, by being hung under it. To the world in general, and particularly on that bit of it known as the death warrant, he was Alfred Spangler.

And he took a more positive approach to the situation and had concentrated his mind on the prospect of not being hanged in the morning, and, most particularly, on the prospect of removing all the crumbling mortar from around a stone in his cell wall with a spoon. So far the work had taken him five weeks and reduced the spoon to something like a nail file. Fortunately, no one ever came to change the bedding here, or else they would have discovered the world's heaviest mattress.

It was a large and heavy stone that was currently the object of his attentions, and, at some point, a huge staple had been hammered into it as an anchor for manacles.

Moist sat down facing the wall, gripped the iron ring in both hands, braced his legs against the stones on either side, and heaved.

His shoulders caught fire, and a red mist filled his vision, but the block slid out with a faint and inappropriate tinkling noise. Moist managed to ease it away from the hole and peered inside.

At the far end was another block, and the mortar around it looked suspiciously strong and fresh.

Just in front of it was a new spoon. It was shiny.

As he studied it, he heard the clapping behind him. He turned his head, tendons twanging a little riff of agony, and saw several of the wardens watching him through the bars.

From *Going Postal*, by Terry Pratchett

Keyword : LUCKY

Document 2 Cipher 2 : plain text

Some of the things you could learn up a drainpipe at night were surprising. For example, people paid attention to small sounds—the click of a window catch, the clink of a lock pick—more than they did to big sounds, like a brick falling into the street or even (for this was, after all, Ankh-Morpork) a scream.

These were loud sounds, which were, therefore, public sounds, which, in turn, meant they were everyone’s problem and, therefore, not mine. But small sounds were nearby and suggested such things as stealth betrayed, and were, therefore, pressing and personal.

Therefore, he tried not to make little noises.

Below him, the coach yard of the Central Post Office buzzed like an overturned hive. They’d got the turntable working really well now. The overnight coaches were arriving and the new Überwald Flyer was gleaming in the lamplight. Everything was going right, which was, to the nighttime climber, why everything was going wrong.

The climber thrust a brick key into soft mortar, shifted his weight, moved his foo—

Damn pigeon! It flew up in panic, his other foot slipped, his fingers lost their grip on the drainpipe, and when the world had stopped churning, he was owing the postponement of his meeting with the distant cobbles to his hold on a brick key, which was, let’s face it, nothing more than a long, flat nail with a T-piece grip.

And you can’t bluff a wall, he thought. If you swing, you might get your hand and foot on the pipe, or the key might come out.

From *Making Money*, by Terry Pratchett

Keyword : PARANO

Document 3 Cipher 3 : plain text

Sam Vimes sighed when he heard the scream, but he finished shaving before he did anything about it.

Then he put his jacket on and strolled out into the wonderful late spring morning. Birds sang in the trees, bees buzzed in the blossom. The sky was hazy though, and thunderheads on the horizon threatened rain later. But for now, the air was hot and heavy. And in the old cesspit behind the gardener's shed, a young man was treading water.

Well ... treading, anyway.

Vimes stood back a little way and lit a cigar. It probably wouldn't be a good idea to employ a naked flame any nearer to the pit. The fall from the shed roof had broken the crust.

"Good morning!" he said cheerfully.

"Good morning, Your Grace," said the industrious treadler.

The voice was higher pitched than Vimes expected and he realized that, most unusually, the young man in the pit was in fact a young woman. It wasn't entirely unexpected – the Assassins' Guild was aware that women were at least equal to their brothers when it came to inventive killing – but it nevertheless changed the situation somewhat.

"I don't believe we've met?" said Vimes. "Although I see you know who I am. You are ...?"

"Wiggs, sir," said the swimmer. "Jocasta Wiggs. Honored to meet you, Your Grace."

"Wiggs, eh?" said Vimes. "Famous family in the Guild. 'Sir' will do, by the way. I think I once broke your father's leg?"

From *Nightwatch*, by Terry Pratchett

Keyword : AIRBAG

Document 4 Cipher 4 : plain text

Everything starts somewhere, although many physicists disagree.

But people have always been dimly aware of the problem with the start of things. They wonder aloud how the snowplow driver gets to work, or how the makers of dictionaries look up the spelling of the words. Yet there is the constant desire to find some point in the twisting, knotting, raveling nets of space-time on which a metaphorical finger can be put to indicate that here, here, is the point where it all began ...

Something began when the Guild of Assassins enrolled Mister Teatime, who saw things differently from other people, and one of the ways that he saw things differently from other people was in seeing other people as things (later, Lord Downey of the Guild said, "We took pity on him because he'd lost both parents at an early age. I think that, on reflection, we should have wondered a bit more about that").

But it was much earlier even than that when most people forgot that the very oldest stories are, sooner or later, about blood. Later on they took the blood out to make the stories more acceptable to children, or at least to the people who had to read them to children rather than the children themselves (who, on the whole, are quite keen on blood provided it's being shed by the deserving*), and then wondered where the stories went. And earlier still when something in the darkness of the deepest caves and gloomiest forests thought : what are they, these creatures ? I will observe them ...

From *Hogfather*, by Terry Pratchett

Keyword : MUSIC

Document 5 Cipher 5 : plain text

Against the stars a turtle passes, carrying four elephants on its shell.

Both turtle and elephants are bigger than people might expect, but out between the stars the difference between huge and tiny is, comparatively speaking, very small.

But this turtle and these elephants are, by turtle and elephant standards, big. They carry the Discworld, with its vast lands, cloudscapes, and oceans.

People don't live on the Disc any more than, in less hand-crafted parts of the multiverse, they live on balls. Oh, planets may be the place where their body eats its tea, but they live elsewhere, in worlds of their own which orbit very handily around the center of their heads.

When gods get together they tell the story of one particular planet whose inhabitants watched, with mild interest, huge continent-wrecking slabs of ice slap into another world which was in astronomical terms, right next door—and then did nothing about it because that sort of thing only happens in Outer Space. An intelligent species would at least have found someone to complain to. Anyway, no one seriously believes in that story, because a race quite that stupid would never even have discovered blood.*

People believe in all sorts of other things, though. For example, there are some people who have a legend that the whole universe is carried in a leather bag by an old man.

They're right, too.

Other people say : hold on, if he's carrying the entire universe in a sack, right, that means he's carrying himself and the sack inside the sack, because the universe contains everything. Including him. And the sack, of course. Which contains him and the sack already. As it were.

To which the reply is : well ?

All tribal myths are true, for a given value of "true."

From *The Last Continent*, by Terry Pratchett

Keyword : FITTER

Document 6 CIPHER 6 : plain text

It was a moonless night, which was good for the purposes of Solid Jackson. He fished for Curious Squid, so called because, as well as being squid, they were curious. That is to say, their curiosity was the curious thing about them. Shortly after they got curious about the lantern that Solid had hung over the stern of his boat, they started to become curious about the way in which various of their number suddenly vanished skyward with a splash. Some of them even became curious—very briefly curious—about the sharp barbed thing that was coming very quickly toward them. The Curious Squid were extremely curious. Unfortunately, they weren't very good at making connections. It was a very long way to this fishing ground, but for Solid the trip was usually well worth it. The Curious Squid were very small, harmless, difficult to find and reckoned by connoisseurs to have the foulest taste of any creature in the world. This made them very much in demand in a certain kind of restaurant where highly skilled chefs made, with great care, dishes containing no trace of the squid whatsoever. Solid Jackson's problem was that tonight, a moonless night in the spawning season, when the squid were especially curious about everything, the chef seemed to have been at work on the sea itself. There was not a single interested eyeball to be seen. There weren't any other fish either, and usually there were a few attracted to the light. He'd caught sight of one. It had been making through the water extremely fast in a straight line.

From *Jingo*, by Terry Pratchett

Keyword : HAPPY

Document 7 Cipher 7 : plain text

There is where the gods play games with the lives of men, on a board which is at one and the same time a simple playing area and the whole world.

And Fate always wins.

Fate always wins. Most of the gods throw dice but Fate plays chess, and you don't find out until too late that he's been using two queens all along.

Fate wins. At least, so it is claimed. Whatever happens, they say afterwards, it must have been Fate.*

Gods can take any form, but the one aspect of themselves they cannot change is their eyes, which show their nature. The eyes of Fate are hardly eyes at all – just dark holes into an infinity speckled with what may be stars or, there again, may be other things.

He blinked them, smiled at his fellow players in the smug way winners do just before they become winners, and said :

"I accuse the High Priest of the Green Robe in the library with the double-handed axe." And he won.

He beamed at them.

"No one likeh a poor winner," grumbled Offer the Crocodile God, through his fangs.

"It seems that I am favoring myself today," said Fate. "Anyone fancy something else?"

The gods shrugged.

"Mad Kings?" said Fate pleasantly. "Star-Crossed Lovers?"

"I think we've lost the rules for that one," said Blind Io, chief of the gods.

"Or Tempest-Wrecked Mariners?"

"You always win," said Io.

"Floods and Droughts?" said Fate. "That's an easy one."

A shadow fell across the gaming table. The gods looked up.

"Ah," said Fate.

"Let a game begin," said the Lady.

From *Interesting time*, by Terry Pratchett

Keyword : WALLS

Document 8 Cipher 8 : plain text

Now consider the tortoise and the eagle.

The tortoise is a ground-living creature. It is impossible to live nearer the ground without being under it. Its horizons are a few inches away. It has about as good a turn of speed as you need to hunt down a lettuce. It has survived while the rest of evolution flowed past it by being, on the whole, no threat to anyone and too much trouble to eat.

And then there is the eagle. A creature of the air and high places, whose horizons go all the way to the edge of the world. Eyesight keen enough to spot the rustle of some small and squeaky creature half a mile away. All power, all control. Lightning death on wings. Talons and claws enough to make a meal of anything smaller than it is and at least take a hurried snack out of anything bigger.

And yet the eagle will sit for hours on the crag and survey the kingdoms of the world until it spots a distant movement and then it will focus, focus, focus on the small shell wobbling among the bushes down there on the desert. And it will leap . . .

And a minute later the tortoise finds the world dropping away from it. And it sees the world for the first time, no longer one inch from the ground but five hundred feet above it, and it thinks : what a great friend I have in the eagle.

And then the eagle lets go.

And almost always the tortoise plunges to its death. Everyone knows why the tortoise does this. Gravity is a habit that is hard to shake off. No one knows why the eagle does this. There's good eating on a tortoise but, considering the effort involved, there's much better eating on practically anything else. It's simply the delight of eagles to torment tortoises.

But of course, what the eagle does not realize is that it is participating in a very crude form of natural selection.

One day a tortoise will learn how to fly.

From *Small Gods*, by Terry Pratchett

Keyword : ALIEN

Document 9 Cipher 9 : plain text

If Youth, throughout all history, had had a champion to stand up for it ; to show a doubting world that a child can think ; and, possibly, do it practically, you wouldn't constantly run across folks today who claim that "a child don't know anything." A child's brain starts functioning at birth ; and has, amongst its many infant convolutions, thousands of dormant atoms, into which God has put a mystic possibility for noticing an adult's act, and figuring out its purport.

Up to about its primary school days a child thinks, naturally, only of play. But many a form of play contains disciplinary factor. "You can't do this," or "that puts out out," shows a child that it must think, practically, or fail. Now, if, throughout childhood, a brain has no opposition, it is plain that it will attain a position of "status quo," as with our ordinary animals. Man knows not why a cow, dog, or lion was not born with a brain on a par with ours ; why such animals cannot add, subtract, or obtain from books and schooling, that paramount position which Man Holds today.

But a human brain is not in that class. Constantly throbbing and pulsating, it rapidly forms opinions ; attaining an ability of its own ; a fact which is startlingly shown by an occasional child "prodigy" in music or school work. And as, with our dumb animals, a child's inability convincingly to impart its thoughts to us, should not class it as ignorant. Upon this basis I am going to show you how a bunch of bright young folks did find a champion ; a man with boys and girls of his own ; a man of so dominating and happy individuality that Youth is drawn to him as is a fly to a sugar bowl. It is a story about a small town. It is not a gossipy yarn ; nor is it a dry, monotonous account, full of such customary "fill-ins" as "romantic moonlight casting murky shadows down a long, winding country road." Nor will it say anything about tinklings lulling distant folds ; robins carolling at twilight, nor any "warm glow of lamplight" from a cabin window. No. It is an account of up-and-doing activity ; a vivid portrayal of Youth as it is today ; and a practical discarding of that worn-out notion that "a child don't know anything."

From *Gadsby*, by Ernest Vincent Wright

Keyword : AVOID