Modern Greek is a descendant of Classical Greek and is spoken today by approximately 11,000,000 people living in Greece. In addition, it is spoken (with various modifications) in large Greek immigrant communities in North America, Australia and elsewhere. Although the Modern Greek dialects had largely been shaped by the 10th c. A.D. (Browning 1983), the linguistic situation in Greece has been one of diglossia from the middle 19th c. (the early beginnings of the independent Greek state) and until 1976. The High and Low varieties of Greek diglossia are known as Katharevousa and Dhimotiki respectively. Katharevousa was a purist, partly invented, variety that was heavily influenced by Classical Greek; the term Dhimotiki, on the other hand, loosely describes the mother tongue of the Greeks, which was confined to oral communication. In 1976 the use of Katharevousa was officially abolished and gradually a new standard based on Dhimotiki as spoken in Athens has emerged. This variety is adopted by an increasingly large number of educated speakers all over Greece, who choose it over regional varieties (Mackridge 1985). In spelling, Modern Greek has kept many of the conventions of Ancient Greek, although several simplifications have taken place since 1976. Perhaps the most dramatic of these has been the decision to stop using accent and breath marks (which have not had phonetic correspondents in the language for nearly 2,000 years); these marks were replaced by one accent on the stressed vowel of each word with two or more syllables. The variety described here is Standard Modern Greek as spoken by Athenians. The sample text in particular is based on recordings of two Athenian speakers, a male in his mid-twenties and a female in her mid-thirties. Both speakers read the passage twice in relatively informal style.

**Consonants**

The consonant system of Greek comprises voiced and voiceless plosives and fricatives, nasals, and liquids.

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Plosives. The voiceless plosives are unaspirated with very short VOTs. The voiced plosives are fully prevoiced and often—especially in more formal speech—accompanied by prenasalisation, which can vary in duration from being very brief to taking up almost the entire closure of the plosive; in fast speech prenasalisation is rarer and voiced plosives are sometimes lenited to fricatives (Arvaniti & Joseph in press). Voiced plosives never appear prenasalised word-initially or in clusters in which they are preceded by /r/ or /l/ (e.g. [bɔnuni] ‘red mullet’ is never pronounced *[mbɔnuni]). The prenasalisation of voiced plosives is also subject to sociolinguistic variation. Specifically, prenasalisation seems to be in decline, with younger Athenian speakers producing few or no prenasalised tokens (Arvaniti & Joseph, in press). However, because of the possibility of prenasalisation, there is considerable disagreement as to whether the voiced plosives should be treated as separate phonemes (e.g. Householder 1964) or as sequences of homorganic nasal+voiceless plosive in which the plosive assimilates for voice to the nasal (e.g. Newton 1972).

Nasals. Greek has only two nasal phonemes, /m/ and /n/. However, in clusters nasals share the place of articulation of the plosives and fricatives they precede; e.g. [vɔfivo] ‘I doubt’, [vɔtniŋn] ‘touch’, [vɔtnos] ‘stress’.

Rhotics. Greek has one rhotic sound. This is pronounced as an alveolar tap [ɾ] word-initially and intervocalically, or when it is followed by another consonant; in fast speech it may
be pronounced as an alveolar approximant. In clusters in which it is preceded by a plosive or a fricative it is pronounced as a short trill.

The palatal consonants of Greek. In front of the high vowels /i/ and /e/ all the velar consonants ([k], [g], [x] and [ɣ]) have palatal allophones ([c], [j], [ç] and [j] respectively). The palatal allophones of the velars appear also when the consonants are followed by a sequence of /i/ and a back vowel (/ʊ/, /o/ or /u/), when all three segments form one syllable. In such cases, the vowel /i/ is not pronounced and thus the palatal consonants appear before back as well as front vowels; e.g. [pr.nom.c τανάκι 'small cloths’ (cf. [pr.nom.ci] πανάκι 'small cloth’). Despite the fact that the palatal consonants may appear before all vowels, alternations like [pr.nom.ci]-[pr.nom.c] suggest that it is best to treat them as allophones of their velar counterparts, resulting from the presence of an underlying /i/ /l/ and /n/ also have palatal allophones when they are followed by /i/ and another vowel, if the two vowels are in the same syllable; again, /i/ is not pronounced in these cases; e.g. [dul.άτ] δουλεία ‘work’; [br.νύ] μπάνιο ‘bath’; (c.f. [dul.λι.ν] δουλεία ‘slavery’; /δεβ.νι.ο/ δάνειο ‘loan’).

Vowels

Greek has a typical five vowel system /i / e / o / u / /i/ and /u/ are rather peripheral close front and back vowels respectively. The mid-vowels are usually transcribed as /e/ and /o/; unlike /o/, which is indeed close-mid, /e/ is between close-mid and open-mid in quality and closer to the latter, and hence more accurately transcribed as [ɛ]. Similarly, the low vowel is usually transcribed as /a/, although it is central in quality and somewhat raised, and thus more accurately transcribed as [v]. Jongman, Fourakis & Sereno (1989) present formant values for Greek vowels that clearly show the front mid vowel to be rather open in quality, the back mid vowel to be rather close, and the low vowel to be rather central.

The Greek vowels do not exhibit much variation in terms of quality. In casual speech unstressed /i/ and, to a lesser extent, /u/ become devoiced and even elided. The factors that trigger devoicing are not fully understood. However, it can safely be stated that devoicing is mostly
triggered by the presence of voiceless consonants flanking the high vowels and is more common when the vowel is in a syllable immediately following a stressed syllable (Dauer 1980).

The high vowel /i/ is realised differently depending on the position it occupies in the syllable. Specifically, when /i/ is followed by another vowel in the same syllable (and is not preceded by one of the consonants with palatal allophones), then it is pronounced as a palatal fricative, which is voiced after voiced consonants and voiceless after voiceless ones; e.g. [lå.DJå] λάδια ‘oils’, [νe.ˈtçå] νετά ‘kittens’ (c.f. [lå.Di] λάδι ‘oil’, [νe.ˈtçi] νετί ‘kitten’); but [νe.ˈdå.ɪ] άδεια ‘leave’ (cf. [νe.ˈdå] άδεια ‘empty’ neu.pl.). In /m+/+i+vowel sequences forming one syllable, /i/ is pronounced /ν/, e.g. [μην.ˈlo] μυαλό ‘brain’ (cf. [μi.ˈe.los] μυελός ‘bone marrow’).

Conventions

Greek shows several types of juncture phenomena, mostly, but not exclusively, between proclitics (such as articles, weak forms of pronouns, and the negative particles [δέν] and [μέν]) and their hosts. When word-initial voiceless plosives are preceded by a proclitic that ends in /n/ they become voiced; the nasal may assimilate for place of articulation to the following plosive or be elided; e.g. [τον γρήγορα] τον καθηγητή or [το γρήγορα] ‘the professor’ ACC. (τόν καθηγητή/). The final /n/ of proclitics is elided (with some exceptions) when the host begins with a fricative or a liquid; e.g. [το τίλό μου] τον φίλο μου ‘my friend’ (τόν τίλο μ/), [τή τοπία] την ρόπτηρα ‘I asked her’ (τίν τόπισι/). When word-final /s/ precedes a word-initial voiced consonant (and the two words belong to the same intonational phrase) /s/ becomes voiced; e.g. [ο κρεμά leˈsezi] ο καφές λεκιάζει ‘coffee stains’ (ο κρεμάς leˈsezi/). Generally, word-final consonants resyllabify, if the following word (within the same phrase) begins with a vowel. Sequences of identical consonants across word boundaries are simplified, except in very formal and careful speech; e.g. [ο τέλο sikoˈθiç] ο Μάνος sikoˈθiç ‘Manos got up’ (ο μάνος sikoˈθiç/). Sequences of identical vowels across word boundaries also degenerate, unless (a) vowel elision will result in a stress clash or (b) both vowels are stressed; e.g. [i porˈtıni] η πόρτα aνοίγει ‘the door opens’ (i porˈtni). Vowel elision also takes place between certain sequences of different vowels; which vowel is elided depends on a complex combination of stress patterns, relative vowel sonority and the morphological role of the vowels (e.g. the verb-initial past tense marker /e/ is more likely to be elided than a word-initial /e/ that belongs to the word’s stem). When neither of the vowels is elided, the sequence is often pronounced as a short diphthong, e.g. [iŋˈprɔifz̩mn] είναι από ύφασμα ‘[it] is of cloth’ (/íne vrɔ oˈifz̩mn/).
Stress and rhythm

Greek is a language with “dynamic” stress. Stressed syllables are distinguished by being generally longer and/or having higher amplitude than unstressed syllables; stressed vowels are also more peripheral in quality than unstressed ones but the differences are not large. The most reliable measure of stress in Greek is amplitude integral or total amplitude, a measurement combining the duration and amplitude of a sound and thus giving a better indication of the vowel’s loudness (Arvaniti, 1994; 2000).

Greek words carry only one stress, in one of their last three syllables. The position of stress is largely determined by morphology and is phonologically unpredictable. There are several pairs and triplets of words distinguished solely by stress location. The only case in which a Greek word carries two stresses is when it is stressed on the antepenult (or the penult) and is followed by one (or two) enclitic(s). In these cases, a second stress appears on the penultimate syllable of the whole group, e.g. [eftocinito] ‘car’ but [eftocinito mu] ‘my car’; [dose mu] ‘give me’ but [dose ’mu to] ‘give me it’. As can be seen in the examples, the added stress becomes the primary stress of the group. There has been discussion in the literature about whether Greek has additional levels of stress, such as “rhythmic stress” (e.g. Nespor & Vogel 1989). Acoustic evidence so far does not support this claim (Arvaniti 1992, 1994).

Transcription of recorded passage

ο νοτίας ο ήλιος Μαλώναν για το ποιος απ’ τους δύο είναι ο δυνατότερος, όταν έτυχε να περάσει από μπροστά τους ένας ταξιδιώτης που φορούσε κάπα. Όταν τον είδαν, ο βοριάς κι ο
ήλιος συμφώνησαν ότι όποιος έκανε τον ταξιδιώτη να βγάλει την κάπα του θα θεωρούνταν ο πιο δυνατός. Ο βοριάς άρχισε τότε να φυσάει με μανία, αλλά όσο περισσότερο φυσούσε τόσο περισσότερο τυλιγόταν με την κάπα του ο ταξιδιώτης, όσπου ο βοριάς κουφάστηκε και σταμάτησε να φυσάει. Τότε ο ήλιος άρχισε με τη σειρά του να λάμπει δυνατά και γρήγορα ο ταξιδιώτης ξεστάθηκε κι έβγαλε την κάπα του. Έτσι ο βοριάς αναγκάστηκε να παραδεχθεί ότι ο ήλιος είναι πιο δυνατός απ’ αυτόν.

References


