2.1 Formal types: *wh*, *that* and bare relatives 4

[1] i *I agree with most of the things that your father was saying.* [clause]

ii *I agree with most of what your father was saying.* [NP]

[1] i *He'll be glad to take the toys* ( *which you don't want.* [*wh* relative]

ii ( *that you don't want.* [non-*wh*: *that* relative]

iii ( *you don't want.* [non-*wh*: bare relative]

[2] i *The boys who defaced the statue were expelled.* [integrated relative]

ii *My father, who retired last year, now lives in Florida.* [supplementary relative]

iii *It was Kim who wanted Pat as treasurer.* [cleft relative]

iv *What you say is quite right.* [fused relative]

[3] i *Pat is afraid of snakes, which I'm sure Kim is too*. [AdjP]

ii *Pat is afraid of snakes, which doesn't surprise me at all* [clause]

[4] i *Kim wanted Pat as treasurer.* [non-cleft]

ii *It was Kim who wanted Pat as treasurer.* (=[2iii]) ) [cleft]

iii *It was Pat that Kim wanted as treasurer.* )

[5] i *What he did was quite outrageous.*

ii *Whoever devised this plan must be very naive.*

iii *You can buy* *whichever car appeals to you most*.

[6] i *It would mean abandoning that which we hold most dear.* [antecedent + clause]

ii *It would mean abandoning what we hold most dear.* [fused relative]

[7] i *Put it back where you found it.*

ii *He still calls his parents whenever he is in trouble*.[[1]](#footnote-1)

[8] i *She found a good place from which to watch the procession.*

ii *She found a good place to watch the procession from.*

[1] i *A letter drew our attention to the problem.* [main clause]

ii *This is the letteri* [*whichi drew our attention to the problem*]. [*wh* relative]

iii *This is the letteri* [*that \_\_i drew our attention to the problem*]. [*that* relative]

[2] i *My neighbour gave me some advice.* [main clause]

ii *I accepted the advicei* [*whichi* *my neighbour gave me*]*.* [*wh* relative]

iii *I accepted the advicei* [*that my neighbour gave me \_\_i*]*.* [*that* relative]

iv *I accepted the advicei* [*my neighbour gave me* \_\_*i*]. [bare relative]

[3] *I accepted the advicei* [*whichi* *my neighbour gave me \_\_i*]*.*

[4] Clause

Prenucleus: Nucleus:

NP*i* Clause

Subject: Predicate:

NP VP

Predicator: Oi: Od:

V NP gap*i*

*which my neighbour gave me \_\_*

[5] i a. *They ignored the suggestioni* [*that Kim made \_\_i*]. [relative clause]

b. *They ignored the suggestion* [*that Kim cheated*]. [content clause]

ii a. *Focus on the questioni* [*whichi your brother raised*]. [relative clause]

b. *Focus on the question* [*which of them stood to gain by it*]. [content clause]

[6] *They rejected the idea* [*that we had advanced*]*.* [relative or content clause]

[7] i *I can't find the book* [*which he recommended \_\_*]*.* [simple]

ii *We've never met the people* [*whose house we are renting \_\_*]*.* ) [complex]

iii *We admired the skill* [*with which she handled the situation \_\_*]. )

[8] i *I can't find the booki* [*whichi he recommended \_\_i*]*.*

ii *We've never met the peoplei* [[*whosei house*]*j we are renting \_\_j*]*.*

iii *We admired the skilli* [[*with whichi*]*j she handled the situation \_\_j*].

[9] i *I can't find the book* [*that he recommended*]*.*

ii \**We've never met the people* [*that's house we are renting*]*.*

iii \**We admired the skill* [*with that she handled the situation*]*.*

[10] type percolation from to example

[11] i *Kim was hiding behind the curtain.* [main clause]

ii *the curtain* ( [*behind which Kim was hiding*] [Type I applied]

iii ( [*which Kim was hiding behind*] [Type I not applied]

[12] i *She investigated all the complaints,* [*most of which were well founded*]*.*

ii *She's just sat her final exam,* [*the result of which we expect next week*]*.*

iii *They are members of an association* [*the first and most precious principle of which is mutual trust*]*.*

iv *Police are looking for a Ford Escort* [*the licence number of which ends in 7*]*.*

[13] i *He already knows the answers to the problems.* [main clause]

ii ( [*the answers to which he already knows*] [Types I & II]

iii *problems* ( [*to which he already knows the answers*] [Type I only]

iv ( [*which he already knows the answers to*] [Type I not applied]

[14] i a. *He came up with a strange plan,* ( [*the purpose of which escapes me*]*.*

b. ( [*of which the purpose escapes me*]*.*

c. ( \*[*which the purpose of escapes me*]*.*

ii a. *He came up with a strange plan,* ( [*the purpose of which I don't understand*]*.*

b.  ( [*of which I don't understand the purpose*]*.*

c. (  ?[*which I don't understand the purpose of*]*.*

[15] i *She hadn't kept copies of her letters,* ( [*only five of which he'd answered*]*.*

ii  ( [*of which he'd answered only five*]*.*

iii ( \*[*which he'd answered only five of*]*.*

[16] i *I sympathise with such complaints,* [*of which we receive many*]*.*

ii *I sympathise with such complaints,* [*many of which I investigate myself*]*.*

[17] i a. *They are striving to explain phenomena* [*of which we have little or no direct knowledge*]*.*

b. #*They are striving to explain phenomena* [*little or no direct knowledge of which we have*]*.*

ii a. *Her first loyalty is to the program* [*of which she is director*]*.*

b. \**Her first loyalty is to the program* [*director of which she is*]*.*

[18] i *He was wearing a tall black sheepskin hat* [*from the top of which dangled a little red bag ornamented by a chain of worsted lace and tassels*]*.* [I + II + I]

ii *They will be involved in several other projects,* [*one of the most important of which will be to find ways to use the new superconductor in chips that can provide the brains of a new generation of supercomputers*]*.* [I + II + I + II]

[19] i *The many varieties of mammalian skin secretions perform a wide range of functions,* [*prominent among which is sexual attraction*]*.*

ii *Several MPs were interviewed,* [*chief among whom was the Chancellor of the Exchequer, Douglas Durack*]*.*

[20] i *I felt the need of a better knowledge of Hebrew and archaeology to refute a higher criticism of the Bible.* [main clause]

ii *I became disturbed by a `higher criticism' of the Bible,* [*to refute which I felt the need of a better knowledge of Hebrew and archaeology*]*.* [Type III]

[21] *Here is Dr Van Buren,* [*in order to interview whom Phelps says he was prepared to fly to Copenhagen*]*.*

[22] *They take a rigorous examination,* [*passing which confers on the student a virtual guarantee of a place at the university*]*.*

[23] i *He plagiarised the student's essay.* [main clause]

ii *the student* ( [*whose essay he plagiarised*] [Type VI]

iii ( \*[*whose he plagiarised essay*] [Type VI not applied]

[24] i *I hadn't yet met the people* [*in whose house I would be staying*]*.*

ii *She was lecturing on Tom Roberts,* [*an exhibition of whose work can currently be seen at the National Art Gallery*]*.*

iii *You sometimes find yourself unable to describe the physical appearance of someone* [*with the very texture of whose thought you are familiar*]*.*

[25] i *They enthusiastically endorsed this suggestion.*

ii *I said, half jokingly, that it might be more efficient to hold the meeting on Saturday morning,* [*which suggestion they all enthusiastically endorsed*]*.*

iii \**...* [*which they all enthusiastically endorsed suggestion*]*.*

[26] i *They refuse to support the UN's expenses of maintaining the UN Emergency Force in the Middles East as a buffer between Egypt and Israel, the UN troops in the Congo,* [*which expenses are not covered by the regular budget*]*.*

ii *I may be late,* [*in which case I suggest you start without me*]*.*

iii *I will return at 3pm,* [*by which time I expect this room to be tidy*]*.*

iv *Both horses, broken and trained by different trainers, were blundering jumpers until they were seven,* [*at which age they began to outgrow their carelessness*]*.*

v *She has to comment on him standing there, and later, when the soliders march away, has to tell him not to move yet* [*neither of which remarks should be so obtrusive that the soldiers might notice them, but both of which should be clearly heard by the audience*]*.*

[27] i *A man came to dinner.*

ii *The mani* [*whoi came to dinner*] *turned out to be from my home town.*

[28] i a. *She received a letter from the Governor.* [direct object]

b. *This is the letteri* [*that she received \_\_i from the Governor*].

ii a. *He showed a student the exam paper.* [indirect object]

b. \**The studenti* [*whomi he showed \_\_i the exam paper*] *informed the police.*

[29] i a. *She is a scholar.*

b. *Her book displays the fine sceptical intelligence of the scholari* [*she is \_\_i*].

ii a. *They consider it a good investment.*

b. ?*I don't think it is the good investmenti* [*they consider it \_\_i*]*.*

[30] i *He was trying to cut it with a penknife.*

ii *The penknifei* [*that he was trying to cut it with \_\_i*] *was blunt.*

[31] i *We met Kim at the races one day.*

ii *Do you remember the dayi* [*we met Kim at the races \_\_i*]*?*

[32] i *It was a time in my lifei* [*wheni everything seemed to be going right \_\_i*]. [time]

ii *I've finally found somewherei* [*wherei I can work undisturbed \_\_i*]. [location]

iii *They want to go to the placei* [*wherei they went last year \_\_i*]. [goal]

iv *I shall go back the wayi* [*I came \_\_i*]. [path]

v *Look at the wayi* [*he tackled the job \_\_i*]. [manner]

vi *That's not really the reasoni* [*she left him \_\_i*]. [reason]

[33] i *They returned to the placei* [*whencei they had come \_\_i*]*.* [source]

ii *It is a schemei* [*wherebyi payment can be deferred for six weeks \_\_i*]*.* [means]

[34] i *It wasn't for mei* [*that he made the sacrifice \_\_i*]. [benefactive]

ii *It's to avoid such a conflict of interesti* [*that I'm resigning \_\_i*]. [purpose]

[35] i *Some client's measurements remain unknown.*

ii *One cannot tailor a suit for a client* [*whose measurements remain unknown*].

[36] i a. *I simply can't design it myself.*

b. *He told me to design it myselfi,* [*whichi I simply can't \_\_i*]*.*

ii a. *I called the police immediately.*

b. *They advised me to call the policei,* [*which I did \_\_ immediately*]*.*

iii a. *I'd very much like to go with him.*

b. *He's asked me to go with himi,* [*whichi I'd very much like to \_\_i*].

[37] i *It is certainly important to consult your lawyer.*

ii \**He says you should consult your lawyeri,* [*whichi it is certainly important to \_\_i*]*.*

[38] i a. *She recommended a book.*

b. *This is the booki* [*that she recommended \_\_i*]*.*

ii a. *I think she recommended a book.*

a. *This is the booki* [*that I think* [*she recommended* *\_\_i*]]*.*

[39] i a. *I lent a boy my key.*

b. \**They found the boyi* [*that I lent \_\_i my key*]*.*

ii a. *He said I lent a boy my key.*

b. \**They found the boyi* [*that he said* [*I lent \_\_i my key*]]*.*

[40] i a. *This car is safe.*

b. *I want a cari* [*that \_\_i is safe*]*.*

ii a. *I know* [*this car is safe*]*.*

b. *I want a cari* [*that I know* [*\_\_i is safe*]]*.*

[41] i \**I want a car* [*\_\_ is safe*]. [gap as subject of relative clause]

ii *I want a car* [*I know* [*\_\_ is safe*]]. [gap as subject of embedded clause]

[42] personal antecedent non-personal antecedent

i a. *the people who were outside* b. *the things which matter most*

ii a. *a dog who was licking my face* b. *a dog which is always barking*

[43] i *For 80 years, grizzly bears have been feeding at the rubbish dumps, often in great roaming bands who came down from the remote pine forests.*

ii *The more vigorous dance for a dilute source of nectar in turn recruits other bees, who then visit that dilute source instead of concentrated ones.*

[44] i *They accused him of being a traitori,* [*whichi he undoubtedly was \_\_i*]*.*

ii *It turned out that he wasn't the personi* [*whoi I'd thought he was \_\_i*]*.*

[45] i *They've got a chief executive who can provide strong leadership, which we certainly haven't got at the moment.*

ii *Remember that they have a house-keeper, which we don't have.*

[46] i *She spoke of the people and books which had brought her the greatest pleasure.*

ii *She spoke of the books and people who had brought her the greatest pleasure.*

[47] i *She started a home for women* [*whose husbands were in prison*]*.* [personal]

ii *The report contains statements* [*whose factual truth is doubtful*]*.* [non-personal]

[48] i a. *The child's parents were constantly quarrelling.*

b. *The parents of the child were constantly quarrelling.*

ii a. *The house's roof had been* *damaged in the storm.*

b. *The roof of the house had been damaged in the storm.*

[49] i a. *a child* [*whose parents were constantly quarrelling*] [genitive]

b. *a child* [*the parents of whom were constantly quarrelling*] [post-head *of* PP]

c. *a child* [*of whom the parents were constantly quarrelling*] [extracted *of* PP]

ii a. *a house* [*whose roof had been damaged in the storm*] [genitive]

b. *a house* [*the roof of which had been damaged in the storm*] [post-head *of* PP]

c. *a house* [*of which the roof had been damaged in the storm*] [extracted *of* PP]

[50] subject-determiner genitive predicative genitive

i a. *It was the doctor's car.* b. *The car was the doctor's.*

ii a. *the doctor* [*whose car it was*] b. \**the doctor* [*whose the car was*]

[51] i *She wanted to see the housei* [*wherei she had grown up*]*.*

ii *They met in the journalists' clubi,* [*wherei he went every Sunday afternoon*]*.*

iii *She often climbed the knoll behind the missioni,* [*from wherei she could look down on roofs and people*]*.*

[52] i *It happened at a timei* [*wheni I was living alone*]*.*

ii *In those daysi,* [*wheni he was still a student,*] *he used to babysit for us.*

iii *He left college in 1982i,* [*since wheni I've only seen him twice*]*.*

[53] i *From 1981 to 1987i,* [*whilei his uncle lived with them*]*, she had a full-time job.*

ii %*He wrote most of his poetry during the yearsi* [*whilei he was in Paris*]*.*

[54] i *That's the main reasoni* [*whyi they won't help us*]*.*

ii *There was no reasoni* [*whyi he should stay at the dance any longer*]*.*

iii *I can't see any reasoni* [*whyi you shouldn't have a little fun*]*.*

[55] i *He sent his son with the papers to another congressman's housei,* [*whencei they were spirited to a governor*]*.*

ii *But this means that the Taniyama-Shimura conjecture is truei,* [*whencei it follows that Fermat's Last Theorem is true*]*.*

[56] i *His Lordship might make an orderi* [*wherebyi each side would bear its own costs*]*.*

ii *Size segregation occurs when a powder is poured into a heapi,* [*wherebyi the larger particles run more easily down the slope of the heap*]*.*

iii *Try to imagine a marketi* [*whereini the majority consistently wins what the minority loses*]*.*

iv *She told him his essay was incoherenti,* [*whereuponi he tore it up and stormed out of the room*]*.*

[57] i *She said he was arrogant,* [*which I don't think he is*]*.* [AdjP]

ii *He set out to redeem himself,* [*which he eventually did*]. [VP]

iii *He wouldn't let us defend ourselves,* [*which was completely unfair*]*.* [clause]

[58] i  *The patas monkey,* [*that spends almost all of its time in open grassland,*] *adopts just such tactics.*

ii  *His heart,* [*that had lifted at the sight of Joanna,*] *had become suddenly heavy at the* *sight of Ramdez thumping after her*

iii *February,* [*that in other years held intimations of spring,*] *this year prolonged the bitter weather.*

iv *She had long been accustomed to the solitary nature of her son's instincts,* [*that I had tried and failed to stifle*]*.*

[59] i *They won't register companies* [*whose directors are undischarged bankrupts*]*.*

ii *It's a burden* [*of which they will never be free*]*.*

[60] i *I haven't seen them since the day* [*when*/(*that*) *Kim was born*]*.*

ii *That's the reason* [*why*/(*that*) *she resigned*]*.*

[61] i *This is much better than the hotel* [*where we stayed last year*]*.*

ii *This is much better than the place* [*where*/(?*that*) *we stayed last year*]*.*

[62] i *Go back the way* [(*that*) / *by which you came*]*.*

ii *I admired the way* [(*that*) / *in which she handled the situation*]*.*

[63] i *That* [*which we so carefully created*] *he has wantonly destroyed.*

ii *All* [*who heard her speak*] *were deeply impressed by her sincerity.*

[64] i *Anything* [(*that*) *you say*] *may be used in evidence against you.*

ii *All* [(*that*) *I ask for*] *is a little peace and quiet.*

[65] i *She gave me the best meal* [(*that*) *I'd had for many years*]*.*

ii *You should take the first appointment* [*that is available*]*.*

iii *That fish is the biggest* [(*that*) *I've ever seen*]*.*

[66] i *He's no longer the trustworthy friend* [(*that*) *he was in those days*]*.*

ii *The interview turned out not to be the ordeal* [(*that*) *I had thought it would be*]*.*

[67] non-subject subject

i a. *The car* [*that I took \_\_*] *was Ed's.* b. *The car* [*that \_\_ hit us*] *was Ed's.*

ii a. *The car* [*I took \_\_*] *was Ed's.* b. \**The car* [*\_\_ hit us*] *was Ed's.*

[68] i ?*It was my father* [*\_\_ did most of the talking*]*.* [*it*-cleft]

ii ?*There's someone at the door* [*\_\_ wants to talk to you*]*.* [existential]

iii !*Anyone wants this can have it.*

[69] *I found I needed a file* [*that only the day before I had sent to be shredded*]*.*

[70] i *I'll go back the way* [*I came*]*.*

ii *I haven't seen her since the day* [*Kim was born*]*.*

iii *It was with considerable misgivings* [*that her parents agreed to this proposal*]*.*

iv *It was in order to avoid this kind of misunderstanding* [*that I circulated a draft version of the report*]*.*

v *Something has cropped up* [*that I hadn't expected*]*.*

[71] i *They gave the prize to the girl* [*that spoke first*]*.* [*who*]

ii *Have you seen the book* [*that she was reading*]*?* [*which*]

iii *He was due to leave the day* [*that she arrived*]*.* [*when*]

iv *He followed her to every town* [*that she went*]*.* [*where*]

v *That's not the reason* [*that she resigned*]*.* [*why*]

vi *I was impressed by the way* [*that she controlled the crowd*]*.* [\**how*]

vii *It wasn't to you* [*that I was referring*]*.* [no *wh* form]

viii *She seems to be the happiest* [*that she has ever been*]*.* [no *wh* form]

[72] i a. *the woman* [*whose turn it was*] b. \**the woman* [*that's turn it was*]

ii a. *the knife* [*with which he cut it*] b. \**the knife* [*with that he cut it*]

[1] i a. *They interviewed every student who had lent money to the victim.* [integrated]

b. *They interviewed Jill, who had lent money to the victim.* [supplementary]

ii a. *The necklace which her mother gave to her is in the safe.* [integrated]

b. *The necklace, which her mother gave to her, is in the safe.* [supplementary]

[2] integrated supplementary

i *Wh* relatives Yes Yes

ii *That* relatives Yes Marginal

iii Bare relatives Yes No

[3] integrated supplementary

i *Which* as determiner No Yes

ii Upward percolation, Types IIIV No Yes

iii *Whereupon* No Yes

iv *Why* Yes No

[4] *He spent all breaks either riding racehorses he won three steeplechases or skiing,* [*in which sport he won a European under-18 downhill race*]*.*

[5] *He said he'd drafted the report, which I knew to be untrue.* [supplementary]

[6] i *You should speak to Sue Jones, who was here the whole time.* [supplementary]

ii *She is obviously not the Sue Jones they are looking for.* [integrated]

[7] i \**No candidate, who scored 40% or more, was ever failed.* [supplementary]

ii *No candidate who scored 40% or more was ever failed.* [integrated]

[8] i *He's now the fattest that he's ever been.*

ii *She ran the fastest that she's ever run.*

iii *When that wouldn't be too inconvenient for you could we hold the meeting?*

iv *Where can we go for lunch that isn't too expensive?*

[9] i *I like those ties you wear that your sister knits for you.*

ii \**They've given the job to Max, who has no qualifications, who starts next month.*

[10] i *He said he'd show a few slides towards the end of his talk, at which point please remember to dim the lights.*

ii *It may clear up, in which case would you mind hanging the washing out?*

iii *She may have her parents with her, in which case where am I going to sleep?*

iv *I didn't get much response from Ed, who seemed rather out of sorts, didn't he?*

[11] Clause

Subject: Predicate:

NP VP

Det: Head:

D Nom

Head: Mod:

N Clauserel

*No candidate who scored 40% or more was ever failed*

[12] Clause

Subject: Predicate:

NP VP

Predicator: Object: Supplement:

V NP Clauserel

*They interviewed Jill who had lent money to the victim*

[13] i *They interviewed every student who had lent money to the victim.* (=[1ia])

ii *They interviewed Jill, who had lent money to the victim.* (=[1ib])

[14] i *They interviewed Jill she had lent money to the victim.* (cf. [1ii])

ii *The necklace her mother gave it to her is in the safe.* (cf. [?ii]

iii *He spent all breaks either riding racehorses (he won three steeplechases)*

*or skiing (in this sport he won a European under-18 downhill race).* (cf. [4])

iv *He said he'd drafted the report; I knew this to be untrue.* (cf. [5])

[15] i *I gave it to John, who passed it on to Mary, and she gave it back to me.*

ii *They come to a cliff, where the deer suddenly stops and throws off the little boy, and boy and dog then fall into a pond.*

[16] i *They only take in overseas students who they think have lots of money*.

ii *She was offended by the letter that accused her of racism.*

[17] i *They only take in overseas students, who they think have lots of money.*

ii *She was offended by the letter, which accused her of racism.*

[18] *The father who had planned my life to the point of my unsought arrival in Brighton took it for granted that in the last three weeks of his legal guardianship I would still act as he directed.*

[19] i *He sounded like the clergyman he was.*

ii *She had two sons she could rely on for help, and hence was not unduly worried.*

[20] i *She had two sons*(*,*) *who were studying medicine at university*(*,*) *and a daughter*(*,*) *who was still at high school.*

ii A: *Have you been to Paris?* B: *Yes, often: I have a brother who lives there.*

iii *I've been talking to one of the porters, who says the train may be an hour late.*

[21] i *The contestant who won first prize, who is the judge's brother, sang dreadfully*.

ii \**The contestant, who is the judge's brother, who won first prize sang dreadfully.*

[22] i *A stranger came into the room who looked just like Uncle Oswald*.

ii *Kim lent a book to Ed which contained all the information he needed*.

iii *I met a man the other day who says he knows you.*

iv *There was a fight reported in Monday's paper that put three people in hospital.*

[23] i *Only the flower is used, which is not poisonous and is attached to the plant with a very fine stem.*

ii *She could hear her father in the next room, who was angrily complaining about the horrific telephone bill.*

[24] *The Net will open up opportunities to exploit tax differences and which makes it even more of a headache than globalisation it will make it possible to dodge taxes altogether.*

[1] i *I'm looking for an essay question with which to challenge the brighter students.*

ii *She is the ideal person in whom to confide.*

iii *The best place from which to set out on the journey is Aberdeen.*

[2] i The relative phrase must consist of preposition + NP.

ii There can be no expressed subject.

[3] i *She's the ideal person* [(*for you*) *to confide in \_\_*]*.*

ii *I've found something interesting* [(*for us*) *to read \_\_*]*.*

iii *A systems analyst wouldn't be such a bad thing* [(*for her*) *to be \_\_*]*.*

iv *That is not a very good way* [(*for him*) *to begin \_\_*]*.*

v *You're not the first person* [*\_\_ to notice the mistake*]*.*

[4] i *He found a video* [*for the kids to watch*]*.* [relative]

ii *He got it* [*for the kids to watch*]*.* [purpose adjunct]

iii *He got a video* [*for the kids to watch*]*.* [ambiguous]

[5] i *She's obviously the person to finish the job.* [modal]

ii *She was the first person to finish the job.* [non-modal]

[1] simple series *ever* series

i a. *I spent what he gave me.* b. *I spent whatever he gave me.* ) [NP]

ii a. *I gave him what money I had.* b. *I gave him whatever money I had.* )

iii a. *I'll go where you go.* b. *I'll go wherever you go.* [PP]

[2] i *It would mean abandoning that which we hold most dear.* [antecedent + clause]

ii *It would mean abandoning what we hold most dear.* [fused relative]

[3] i *The dog quickly ate the scraps that I'd left on my plate.*

ii *The dog quickly ate what I had left on my plate.*

[4] a. *What money she has is in the bank.* b. *What books she has are in the attic.*

[5] a. *What she suggests is unreasonable.* b. *Is what she suggests unreasonable?*

[6] a. *What she suggests is unreasonable.* b. \**It is unreasonable what she suggests.*

[7] fused relative integrated relative

i a. *What she referred to was Riga.* b. *The city which she referred to was Riga.*

ii a. \**To what she referred was Riga.* b. *The city to which she referred was Riga.*

[8] i *What he said was outrageous.* [subject]

ii *They criticise whatever I do.* [direct object]

iii *We'll give whoever needs it a second chance.* [indirect object]

iv *Things aren't always what they seem to be.* [subjective predicative comp]

v *She made him what he is.* [objective predicative comp]

vi *I was ashamed of what I had done.* [comp of prep]

[9] i *I'm sorry that you were inconvenienced.* [clause]

ii \**I'm sorry the inconvenience* / *what I did.* [NP]

[10] i *Whatever they gave him that he didn't need he passed on to me.* [integrated]

ii *He told me he had done it himself, which was quite untrue.* [supplementary]

[11] i *I really liked what she wrote.* [fused relative]

ii *I can't help wondering what she wrote.* [open interrogative]

iii *What she wrote is completely unclear.* [ambiguous]

[12] i *The dogs wouldn't eat what she gave them.* [fused relative]

ii *I told him what she gave them.* [open interrogative]

iii *I told him what she suggested I tell him.* [ambiguous]

[13] i a. *What ideas he has to offer are likely to be half-baked.* [fused relative]

b. *What ideas he has to offer remains to be seen.* [interrogative]

ii a. *Is what she wrote unclear?* [fused relative]

b. *It is unclear what she wrote.* [interrogative]

iii a. *What he's referring to* / \**To what he's referring is Riga.* [fused relative]

b. *I can't imagine what he's referring to* / *to what he's referring.* [interrogative]

iv *He's not sure what he should say.* [interrogative]

[14] i a. *I agree with what she wrote.* b. \**I agree with who spoke last.* ) [relative]

ii a. *I accepted what he offered.* b. \**I accepted which he offered.* )

iii a. *I wonder what she wrote.* b. *I wonder who spoke last.* ) [interrogative]

iv a. *I know what he offered.* b. *I know which he offered.* )

[15] i a. *He accepted what*/*whatever she offered.* ) [relative]

b. *He planted roses where*/*wherever there was enough space.* )

ii a. *He didn't tell me what*/\**whatever she offered.* ) [interrogative]

b. *He went to see where*/\**wherever there was enough space.* )

[16] i a. A: *Jill gave him something last night.* B: *What?* ) [interrogative]

b. *Jill gave him something last night, but I don't know what.* )

ii a. \**Jill gave him something last night, but he lost what.* [fused relative]

b. \**Jill gave him a book last night, but he lost the book which.* [integrated relative]

[17] NP

Head:

Nom

Modifier:

Clauserel

Head-Prenucleus: Nucleus:

NP*i* Clause

Subject: Predicate:

NP VP

Predicator: Object:

V gap*i*

*what she wrote \_\_*

[18] i [*Whoever is responsible for the damage*] *must pay for it.*

ii *He will criticise* [*whomever she brings home*]*.*

iii  ?[*Whomever he marries*] *will have to be very tolerant.*

iv  ?*She lunches with* [*whomever is going her way after morning classes*]*.*

[19] i simple ***who*** *what which where when how while*

ii composite ***whoever*** *whatever whichever wherever whenever however*

[20] fused relatives or non-fused relatives

open interrogatives

i pronouns

***who*** personal personal

*what* non-personal

*which* non-personal

ii determinatives

*what* non-selective

*which* selective (non-selective)

[21] i [*Whoever finishes first*] *will win a prize.* [personal]

ii [*Whatever you can let us have*] *will be very much appreciated.* [non-personal]

iii *I'll use* [*whichever edition I can get hold of*]*.* [selective]

iv *He appears to have lost* [*whatever interest he ever had in it*]*.* [non-selective]

[22] [*Whichever of these two finished ahead of the other*] *would be the undisputed financial leader of the tour.*

[23] i *Invite* [*whoever/whomever*/*who*/*whom you like*]*.*

ii *Liz can go* [*wherever*/*where she wants*]*.*

[24] i [*Whoever told you that*] *can't have read the report carefully.*

ii *I'll accept* [*whatever price you suggest*]*.*

iii *I'll go* [*wherever they tell me to go*]*.*

iv [*Whenever I see her,*] *she's reading.*

[25] i *The central computer will simulate rape scenes or high-speed motor chases or* [*whatever stimulates their proletarian fancies*]*.*

ii *There's always something different to do or eat or* [*whatever it happens to be*]*.*

iii *They put on old coats or ducking jackets,* [*whichever they carried behind their saddle cantles*]*.*

[26] i *They want to assist the impending assault in* [*whatever way possible*]*.*

ii *She came to Atlanta, in the fall of 1888, to help* [*wherever needed*]*.*

[27] i *I'll do* [*what I can*] *to help you.* [non-referential (non-sepecific)]

ii *They seem pleased with* [*what I gave them*]*.* [referential]

[28] i *This will further erode* [*what* (*little*) *economic credibility the government has left*]*.*

ii [*What* (*few*) *mistakes she had made*] *were all of a minor nature.*

[29] i *What caused the trouble was a faulty switch.* ) [relative]

ii *A faulty switch was what caused the trouble.* )

iii *That's who I meant. That's not how to do it.* ) [interrogative]

iv *He's not who she thinks he is.* )

[30] i [*When it rains*] *they play in the garage.*

ii *We must put it* [*where no one will be able to see it*]*.*

iii *They insisted on talking* [*while I was trying to get on with my work*]*.*

[31] i [*When they weren't home at six o'clock*] *I began to get worried.*

ii *Let me know* [*if and when you need any help*]*.*

iii [*Where the British Empire was established with musket and gunboat,*] *America's empire has been achieved with the friendly persuasion of comedian and crooner.*

iv [*While I don't agree with what she says,*] *I accept her right to say it.*

[32] i *I put the key* [*where I always put it*]*, in the top drawer.*

ii *It was fun* [*while it lasted*]*.*

[1] i *This is the booki* [*whichi* [*she recommended \_\_i*]]*.*

ii *This is the booki* [*whichi* [*I think she recommended* *\_\_i*]]*.*

iii *This is the booki* [*whichi* [*I think you said she recommended* *\_\_i*]]*.*

[2] i *Whati* [*does he want \_\_i*]*?*

ii *Whati* [*do you think he wants \_\_i*]*?*

iii *Whati* [*do you think she said he wants \_\_i*]*?*

[3] An unbounded dependency construction is one which sanctions within it an anaphoric gap, with no upper bound on how deeply embedded the gap may be.

[4] i *What a disasteri* [*it was \_\_i*]*!*

ii *What a disasteri* [*it turned out to be \_\_i*]*!*

iii *What a disasteri* [*it seems to have turned out to be \_\_i*]*!*

[5] i *The other chaptersi* [*she wrote \_\_i herself*]*.*

ii *The other chaptersi* [*I think* *she wrote \_\_i herself*]*.*

iii *The other chaptersi* [*I think* *she said she wrote \_\_i herself*]*.*

[6] i [*Stupidi* [*though he was \_\_i*]]*, he saw through their little game.*

ii [*Stupidi* [*though you no doubt think he is \_\_i*]]*, he saw through their little game.*

iii [*Stupidi* [*though I expect you think he is \_\_i*]]*, he saw through their little game.*

[7] i *This is the booki* [*she recommended \_\_i*]*.*

ii *This is the booki* [*I think she recommended* *\_\_i*]*.*

iii *This is the booki* [*I think you said she recommended* *\_\_i*]*.*

[8] i *Kim made more mistakesi than* [*Pat made \_\_i*]*.*

ii *Kim made more mistakesi than* [*I think Pat made \_\_i*]*.*

iii *Kim made more mistakesi than* [*I think you said Pat made \_\_i*]*.*

[9] i *The machinei was too big* [*to take \_\_i home*]*.*

ii *The machinei was too big* [*to ever want to take \_\_i home*]*.*

iii *The machinei was too big* [*to imagine ever wanting to take \_\_i home*]*.*

[10] i a. *The problemi is too difficult* [*to expect a ten-year-old to be able to solve \_\_i*]*.*

b. \**The problemi is too difficult* [*to expect* [*that a ten-year-old could solve \_\_i*]]*.*

[11] I Major constructions

IA Prenuclear antecedent

IAi Contain unbounded

dependency word *wh* relatives (finite), open interrogatives (finite), exclamatives

IAii No such word preposing in clause, preposing in concessive PP

IB External antecedent non-*wh* relatives (finite), comparatives

II Minor constructions

IIA Prenuclear antecedent infinitival *wh* relatives and open interrogatives

IIB External antecedent hollow clauses; infinitival non-*wh* relatives

[12] A gap in an unbounded dependency construction can function only as either:

(a) a post-head dependent; or

(b) subject in clause structure (immediate or embedded).

[13] i *Whati* [*did you buy \_\_i*]*?* [complement of verb]

ii *Whati* [*are you referring* [*to \_\_i*]]*?* [complement of preposition]

iii *Wherei* [*did you see them \_\_i*]*?* [adjunct of verb]

iv *Whoi* [*do you think* [*\_\_i was responsible*]]*?* [subject of clause]

v \**Whosei* [*did you borrow* [*\_\_i car*]]*?* [subject-determiner in NP]

vi \**How manyi* [*did they receive* [*\_\_i applications*]]*?* [determiner]

vii \**How seriousi* [*will it be* [*\_\_i a problem*]]*?* [pre-head modifier in NP]

viii \**Whoi* [*have they shortlisted* [*\_\_i and Kim*]]*?* [coordinate]

[14] i *Whose cari did you borrow \_\_i?* ) [complement of verb]

ii *How many applicationsi did they receive \_\_i?* )

iii *How serious a problemi will it be \_\_i?* )

iv *Whoi have they shortlisted \_\_i in addition to Kim.* )

[15] i a. *This is the C.D.i* [*she got me \_\_i last Christmas*]*.*

b. \**He's the onei* [*she got \_\_i that C.D. last Christmas*]*.*

ii a. *The copies* [*he sold me \_\_i*] *were defective.*

b. \**The personi* [*he sold \_\_i them*] *seemed satisfied.*

iii a. *How muchi do you owe them \_\_i?*

b. ?*How many peoplei do you owe \_\_i more than $50?*

[16] i *He's the mani* [*they think* [*\_\_i attacked her*]]*.* [bare declarative]

ii \**He's the mani* [*they think* [*that \_\_i attacked her*]]*.* [expanded declarative]

iii \**He's the mani* [*they wonder* [*whether\_\_i attacked her*]]*.* [closed interrogative]

[17] i *This is the copyi* [*that* [*\_\_i is defective*]]*.* [immediate subject gap]

ii *This is the copyi* [*whichi is defective*]*.* ) [no gap]

iii *Who signed the letter?* )

[18] i *The other chaptersi* [*she wrote \_\_i herself*]*.* [preposing of object]

ii *She wrote the other chapters herself.* [no preposing]

[19] i a. *Have you seen the booki* [*I got \_\_i from the library*]*?*

b. *Where's the booki* [*I got \_\_i from the library*]*?*

ii a. *Their proposali was hard* [*to accept \_\_i*]*.*

b. *We found their proposali hard* [*to accept \_\_i*]*.*

[20] Clause

Prenucleus: Nucleus:

NP*i* Clause

Subject: Predicate:

NP VP

Predicator: Comp:

V Clause

Subject: Predicate:

gap*i* VP

*the others I know \_\_ are genuine*

[21] i *the lettersi* [*whichi* [*he says she wrote \_\_i*]]

ii *Whoi* [*do you think \_\_i wrote the letter*]*?*

[22] The syntactic and semantic properties of the antecedent must normally match those of expressions which in other constructions can occur as overt realisations of the gap function.

[23] i a. *To Kimi* [*they gave a bicycle \_\_i*]*.* [preposing]

b. *They gave a bicycle to Kim.*

ii a. *Kimi is very hard* [*to please \_\_i*]*.* [hollow]

b. *It is very hard to please Kim.*

[24] i \**To Kimi* [*they bought a bicycle \_\_i*]*.*

ii \**That he comes home so latei is very hard* [*to enjoy \_\_i*]*.*

[25] i *It was that jari* [*that she says she put the key in \_\_i*]*.* [NP NP]

ii *It was in that jari* [*that she says she put the key \_\_i*]*.* [PP PP]

iii \**It was that jari* [*that she says she put the key \_\_i*]*.* [NP PP]

iv \**It was in that jari* [*that she says she put the key in \_\_i*]*.* [PP NP]

[26] i *Every booki* [*we have consulted \_\_i*] *ignores this problem.* [non-*wh relative*]

ii *That's not the reason* [*whyi* [*he did it \_\_i*]]*.* [*wh* relative]

iii *\_\_i Don't be so hard* [*to please \_\_i*]*.* [hollow clause]

[27] i *Whoi* [*did you give it to \_\_i*]*?*

ii %*He always chose those* [*whomi* [*he thought \_\_i were most vulnerable*]]*.*

iii [*Whati* [*I'm hoping \_\_i*]] *is that nobody will notice my absence.*

iv *What on earthi* [*do you want \_\_i*]*?*

v *That no one realised such action might be illegali* [*I find \_\_i surprising*]*.*

vi *That they'll give him a second chancei* [*I wouldn't gamble on \_\_i*]*.*

vii [*Brilliant advocatei* [*though she is \_\_i*]]*, she's unlikely to win this case.*

[28] i *Which jari was it \_\_i* [*that she says she put the key in \_\_i*]*?*

ii *In which jari was it \_\_i* [*that she says she put the key \_\_i*]*?*

[29] i \**Which jari was it \_\_i* [*that she says she put the key \_\_i*]*?*

ii \**In which jari was it \_\_i* [*that she says she put the key in \_\_i*]*?*

[30] \**Which jari was it* [*in \_\_i*]*j* [*that she says she put the key \_\_j*]*?*

[31] i *I told her* [*whati* [*you insisted that we need \_\_i*]]*.*

ii \**I told her* [*whati* [*that we need \_\_i is agreed*]]*.*

[32] Clause

Prenucleus: Nucleus:

NP*i* Clause

Subject: Predicate:

NP VP

Predicator: Comp:

V Clause

Marker: Head:

Subordinator Clause

Subject: Predicate:

NP VP

Predicator: O:

V gap*i*

*what you insisted that we need \_\_*

[33] i *That's a subjecti* [*that Steven Jay Gould wrote a book about \_\_i*]*.*

ii #*That's a subjecti* [*that Steven Jay Gould despises a book about \_\_i*]*.*

[34] i *Most of the criticismsi he* [*accepted \_\_i with good grace*]*.*

ii *I don't know* [*wherei he* [*found it \_\_i*]]*.*

iii *It was to her cousini* [*that she* [*sold the business \_\_i*]]*.*

[35] i *Whether it's ethicali I'm not* [*so certain \_\_i*]*.*

ii *That's the only crime* [*of whichi they could find him* [*guilty \_\_i*]]*.*

[36] i *It was herei* [*she said* [*she found the knife \_\_i*]]*.*

ii *I don't know* [*whoi he thinks* [*he is \_\_i*]]*.*

iii *Here's a booki* [*I think* [*\_\_i might help us*]] *.*

iv *He's the only one* [*that I'm* [*sure she told \_\_i*]]*.*

[37] i *There are several booksi here* [*that I'm not sure* [*if you've read \_\_i*]*.*

ii *The actor had to be careful with the amount of venom poured into a character* [*whoi in the end we don't know* [*whether to hate or pity \_\_i*]]*.*

iii ?*The woman boarding in front of me was carrying a huge sports bagi* [*that the cabin crew wondered* [*whether there was going to be enough room for \_\_i*]]*.*

[38] i *These are the only dishesi* [*that they taught me* [*howj to cook \_\_i \_\_j*]]*.*

ii *The man in the dock was a hardened criminali* [*that the judge later admitted he didn't know* [*whyj he had ever released \_\_i \_\_j in the first place*]*.*

iii ?*Here's another photographi* [*that I can't remember* [*wherej we took \_\_i \_\_j*]]*.*

iv \**It's Maxi* [*that I'd like to know* [*who introduced \_\_i to your sister*]]*.*

[39] i *It's youi* [*I want* [*to marry \_\_i*]]*.*

ii *Whati did you* [*tell the police \_\_i*]]*?*

iii *I wonder* [*whati they intend* [*doing \_\_i about it*]]*.*

iv *They are the ones* [*to whomi he had the weapons* [*sent \_\_i*]]*.*

[40] i *Some of usi he wouldn't even speak* [*to \_\_i*]*.*

ii *This is the knifei* [*you should cut the tomatoes* [*with \_\_i*]*.*

iii ?*What dayi will you not be able to return the book* [*until \_\_i*]*?*

iv \**Here is a list of the objections* [*that they went ahead* [*despite \_\_i*]]*.*

v \**You pay me,i I'll do it* [*if \_\_i*]*.*

vi \**It was this proposali* [*that they sacked me* [*because I criticised \_\_i*]]*.*

[41] i *Of which institutei did you say they are going to make him* [*director \_\_i*]*?*

ii *To which safei is this* [*the key \_\_i*]*?*

iii *He knows little about any of the companies* [*in whichi he owns* [*shares \_\_i*]*.*

iv *I can't remember* [*which countryi she served as* [*prime minister of \_\_i*]]*.*

v *What kinds of birdsi have you been collecting* [*pictures of \_\_i*]*?*

vi *It's a topici* [*that I'd quite like to write* [*a book about \_\_i*]*.*

vii \**It's a topici* [*you should read* [*my philosophy tutor's book on \_\_i*]*.*

[42] i \**That it was my faulti I emphatically reject* [*the insinuation \_\_i*]*.*

ii \**How the accident happenedi they haven't begun to address* [*the question \_\_i*]*.*

iii \**How muchi did the secretary file* [*a report that it would cost \_\_i*]*?*

iv \**He's someonei* [*I accept your contention that we should not have appointed \_\_i*]*.*

v *How many staffi did he give you* [*an assurance that he would retain \_\_i*]*?*

[43] i *Whati had Dr Harris secretly devised* [*a plan to steal \_\_i*]*?*

ii *It is not clear* [*which felonyi he is being charged with* [*intent to commit \_\_i*]]*.*

[44] i *That's the cari* [*that I'm saving up* [*to buy \_\_i*]]*.*

ii *Which monthi are you taking your holidays* [*in \_\_i*] *this year?*

iii \**It's this riveri* [*that I want to buy a house* [*by \_\_i*]]*.*

iv \**List the commoditiesi* [*that you have visited countries* [*which produce \_\_i*]]*.*

[45] i *They have eight children* [*of whomi* [*five \_\_i*] *are still living at home*]*.*

ii \**They have eight children* [*whoi* [*five of \_\_i*] *are still living at home*]*.*

iii \**Whati would* [*to look at \_\_i too closely*] *create political problems?*

[46] i *Who was the guyi* [*that* [*Jill divorced \_\_i*][*and Sue subsequently married \_\_i*]]*?*

ii \**Who was the guyi* [*that* [*Jill divorced Max*][*and Sue subsequently married \_\_i*]]*?*

[47] i *There are some lettersi* [*that I must just* [*go downstairs*] [*and check \_\_i over*]]*.*

ii *What is the maximumi* [*I can* [*contribute \_\_i*] [*and receive a tax deduction*]]*?*

iii *He has built up a high level of expectations,* [*whichi he must* [*either live up to \_\_i*] [*or suffer a backlash*]]*.*

[48]

*Which of the two instrumentsi will this piecej be* [*easier to play \_\_j on \_\_i*]*?*

[49]

\**Which piecei will the guitarj be* [*easier to play \_\_i on \_\_j*]*?*

[50] i *They do an annual reporti* [*that I always throw \_\_i away without reading iti*]*.*

ii *They do an annual reporti* [*that I always throw \_\_i away without reading \_\_i*]*.*

[51] *It was a proposal* [*that* [*Kim supported \_\_i*] [*but everyone else opposed\_\_i*]]*.*

[52] *Fairbanks reached for a towel, a clean one and not the scarcely crumpled onei* [*that Comore himself had* [*used \_\_i*] [*and left \_\_i thriftily on the ledge below the mirror rather than consign* p*\_\_i to the linen basket*]]*.*

1. Other terms found in the literature corresponding to our `fused relative (construction) are `free relative', `headless relative clause' and `nominal relative clause'. Terms incorporating `clause' are unsatisfactory for the reasons we have given. In addition, `nominal' is insufficiently general in that it doesn't cater for prepositional examples like those with *where* or *when*. And `headless' is misleading in our view since the head of the containing phrase is not missing but fused with part of the modifying clause. [↑](#footnote-ref-1)