The Cathedral Church of Saint Andrew , commonly known as Wells Cathedral , is an Anglican cathedral in Wells , Somerset . The cathedral , dedicated to St Andrew the Apostle , is the seat of the Bishop of Bath and Wells . It is the mother church of the diocese and contains the bishop 's throne (cathedra) . It was built between 1175 and 1490 , replacing an earlier church built on the same site in 705 . It is moderately sized among the medieval cathedrals of England , between those of massive proportion such as Lincoln and York and the smaller cathedrals in Oxford and Carlisle . With its broad west front and large central tower , it is the dominant feature of its small cathedral city and a landmark in the Somerset countryside . Wells has been described as " unquestionably one of the most beautiful " and as " the most poetic " of English cathedrals .

The cathedral 's architecture presents a harmonious whole which is entirely Gothic and mostly in the Early English style of the late 12th and early 13th centuries. In this respect Wells differs from most other English medieval cathedrals, which have parts in the earlier Romanesque style introduced to Britain by the Normans in the 11th century.

Work commenced in about 1175 at the eastend with the building of the choir . The historian John Harvey considers it to be the first truly Gothic structure in Europe , having broken from the last constraints of Romanesque . The stonework of its pointed arcades and fluted piers is enriched by the complexity of pronounced mouldings and the vitality of its carved capitals in a foliate style known as " stiff leaf " . Its exterior has an Early English façade displaying more than 300 sculpted figures , described by Harvey as " the supreme triumph of the combined plastic arts in England " . The east end retains much ancient stained glass , which is rare in England .

Unlike many English cathedrals of monastic foundation, Wells has an exceptional number of surviving secular buildings associated with its chapter of secular canons, including the Bishop 's Palace and Vicars' Close, a residential street that has remained intact since the 15th century. The cathedral is a Grade I listed building.

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= = History = =
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Wells.

= = = Early years = = =

The earliest remains of a building on the site are of a late @-@ Roman mausoleum, identified during excavations in 1980. An abbey church was built in Wells in 705 by Aldhelm, first bishop of the newly established Diocese of Sherborne during the reign of King Ine of Wessex. It was dedicated to Saint Andrew and stood at the site of the cathedral 's cloisters, where some excavated remains can be seen. The font in the cathedral 's south transept is from this church and is the oldest part of the present building. In 766 Cynewulf, King of Wessex, signed a charter endowing the church with eleven hides of land. In 909 the seat of the diocese was moved from Sherborne to

The first Bishop of Wells was Athelm (909), who crowned King Æthelstan. Athelm and his nephew Dunstan both became Archbishops of Canterbury. During this period a choir of boys was established to sing the liturgy. Wells Cathedral School, which was established to educate these choirboys, dates its foundation to this point. There is, however, some controversy over this. Following the Norman Conquest, Bishop John de Villula moved the seat of the bishop from Wells to Bath in 1090. The church at Wells, no longer a cathedral, had a college of secular clergy.

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= = = Seat of the bishop = = =
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The cathedral is thought to have been conceived and commenced in about 1175 by Bishop Reginald Fitz Jocelin, who died in 1191. Although it is clear from its size that from the outset, the church was planned to be the cathedral of the diocese, the seat of the bishop moved between Wells and the abbeys of Glastonbury and Bath, before settling at Wells. In 1197 Bishop Reginald's

successor, Bishop Savaric FitzGeldewin, with the approval of Pope Celestine III, officially moved his seat to Glastonbury Abbey. The title of Bishop of Bath and Glastonbury was used until the Glastonbury claim was abandoned in 1219.

Bishop Savaric 's successor , Jocelin of Wells , again moved the bishop 's seat to Bath Abbey , with the title Bishop of Bath . Jocelin was a brother of Bishop Hugh II of Lincoln and was present at the signing of the Magna Carta . Bishop Jocelin continued the building campaign begun by Bishop Reginald and was responsible for the Bishop 's Palace , the choristers 'school , a grammar school , a hospital for travellers and a chapel . He also had a manor house built at Wookey , near Wells . Jocelin saw the church dedicated in 1239 but , despite much lobbying of the Pope by Jocelin 's representatives in Rome , did not live to see cathedral status granted . The delay may have been a result of inaction by Pandulf Verraccio , a Roman ecclesiastical politician , papal legate to England and Bishop of Norwich , who was asked by the Pope to investigate the situation but did not respond . Jocelin died at Wells on 19 November 1242 and was buried in the choir of the cathedral ; the memorial brass on his tomb is one of the earliest brasses in England . Following his death the monks of Bath unsuccessfully attempted to regain authority over Wells .

In 1245 the ongoing dispute over the title of the bishop was resolved by a ruling of Pope Innocent IV who established the title as the "Bishop of Bath and Wells", as it has remained until this day, with Wells as the principal seat of the bishop. Since the 11th century the church has had a chapter of secular clergy, like the cathedrals of Chichester, Hereford, Lincoln and York. The chapter was endowed with 22 prebends (lands from which finance was drawn) and a provost to manage them. On acquiring cathedral status, in common with other such cathedrals, it had four chief clergy, the dean, precentor, chancellor and sacristan, who were responsible for the spiritual and material care of the cathedral.

= = = Building the cathedral = = =

The building programme , begun by Bishop Reginald Fitz Jocelin in the 12th century , continued under Jocelin of Wells , who was a canon from 1200 , then bishop from 1206 . Adam Locke was master mason from about 1192 until 1230 . It was designed in the new style with pointed arches , later known as Gothic , which was introduced at about the same time at Canterbury Cathedral . Work was halted between 1209 and 1213 when King John was excommunicated and Bishop Jocelin was in exile , but the main parts of the church were complete by the time of the dedication by Bishop Jocelin in 1239 .

By the time the cathedral , including the chapter house , was finished in 1306 , it was already too small for the developing liturgy , and unable to accommodate increasingly grand processions of clergy . Bishop John Droxford initiated another phase of building under master mason Thomas of Whitney , during which the central tower was heightened and an eight @-@ sided Lady chapel was added at the east end by 1326 . Bishop Ralph of Shrewsbury followed , continuing the eastward extension of the choir and retrochoir beyond . He oversaw the building of Vicars ' Close and the Vicars ' Hall , to give the men who were employed to sing in the choir a secure place to live and dine , away from the town and its temptations . He had an uneasy relationship with the citizens of Wells , partly because of his imposition of taxes , and he surrounded his palace with crenellated walls , a moat and a drawbridge .

Bishop John Harewell raised money for the completion of the west front by William Wynford , who was appointed as master mason in 1365 . One of the foremost architects of his time , Wynford worked for the king at Windsor , Winchester Cathedral and New College , Oxford . At Wells , he designed the western towers of which north @-@ west was not built until the following century . In the 14th century , the central piers of the crossing were found to be sinking under the weight of the crossing tower which had been damaged by an earthquake in the previous century . Strainer arches , sometimes described as scissor arches , were inserted by master mason William Joy to brace and stabilise the piers as a unit .

By the reign of Henry VII the cathedral was complete, appearing much as it does today (though the fittings have changed). From 1508 to 1546, the eminent Italian humanist scholar Polydore Vergil was active as the chapter 's representative in London. He donated a set of hangings for the choir of the cathedral. While Wells survived the Dissolution of the Monasteries better than the cathedrals of monastic foundation, the abolition of chantries in 1547 resulted in a reduction in its income. Medieval brasses were sold, and a pulpit was placed in the nave for the first time. Between 1551 and 1568, in two periods as dean, William Turner established a herb garden, which was recreated between 2003 and 2010.

Elizabeth I gave the chapter and the Vicars Choral a new charter in 1591 , creating a new governing body , consisting of a dean and eight residentiary canons with control over the church estates and authority over its affairs , but no longer entitled to elect the dean (that entitlement thenceforward belonged ultimately to the Crown) . The stability brought by the new charter ended with the onset of the Civil War and the execution of Charles I. Local fighting damaged the cathedral 's stonework , furniture and windows . The dean , Walter Raleigh , a nephew of the explorer Sir Walter Raleigh , was placed under house arrest after the fall of Bridgwater to the Parliamentarians in 1645 , first in the rectory at Chedzoy and then in the deanery at Wells . His jailer , the shoe maker and city constable , David Barrett , caught him writing a letter to his wife . When he refused to surrender it , Barrett ran him through with a sword and he died six weeks later , on 10 October 1646 . He was buried in an unmarked grave in the choir before the dean 's stall . During the Commonwealth of England under Oliver Cromwell no dean was appointed and the cathedral fell into disrepair . The bishop went into retirement and some of the clerics were reduced to performing menial tasks .

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= = = 1660 ? 1800 = = =
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In 1661 , after Charles II was restored to the throne , Robert Creighton , the king 's chaplain in exile , was appointed dean and was bishop for two years before his death in 1672 . His brass lectern , given in thanksgiving , can be seen in the cathedral . He donated the nave 's great west window at a cost of £ 140 . Following Creighton 's appointment as bishop , the post of dean went to Ralph Bathurst , who had been chaplain to the king , president of Trinity College , Oxford and fellow of the Royal Society . During Bathurst 's long tenure the cathedral was restored , but in the Monmouth Rebellion of 1685 , Puritan soldiers damaged the west front , tore lead from the roof to make bullets , broke the windows , smashed the organ and furnishings , and for a time stabled their horses in the nave .

Restoration began again under Bishop Thomas Ken who was appointed by the Crown in 1685 and served until 1691 . He was one of seven bishops imprisoned for refusing to sign King James II 's " Declaration of Indulgence " , which would have enabled Catholics to resume positions of political power , but popular support led to their acquittal . Ken refused to take the oath of allegiance to William and Mary because James II had not abdicated and with others , known as the Nonjurors , was put out of office . His successor , Bishop Kidder , was killed in the Great Storm of 1703 when two chimney stacks on the palace fell on him and his wife , while they were asleep in bed .

= = = Victorian era to present = = =

By the middle of the 19th century, a major restoration programme was needed. Under Dean Goodenough, the monuments were moved to the cloisters and the remaining medieval paint and whitewash removed in an operation known as "the great scrape". Anthony Salvin took charge of the extensive restoration of the choir. Wooden galleries installed in the 16th century were removed and the stalls were given stone canopies and placed further back within the line of the arcade. The medieval stone pulpitum screen was extended in the centre to support a new organ.

In 1933 the Friends of Wells Cathedral were formed to support the cathedral 's chapter in the maintenance of the fabric , life and work of the cathedral .

The late 20th century saw an extensive restoration programme, particularly of the west front. The stained glass is currently under restoration, with a programme underway to conserve the large 14th @-@ century Jesse Tree window at the eastern terminal of the choir.

= = Ministry = =

Since the 13th century, Wells Cathedral has been the seat of the Bishop of Bath and Wells. Its governing body, the chapter, is made up of five clerical canons (the dean, the precentor, the canon chancellor, the canon treasurer, and the archdeacon of Wells) and four lay members: the administrator (chief executive), Keeper of the Fabric, Overseer of the Estate and the chairman of the cathedral shop and catering boards. The current Bishop of Bath and Wells is Peter Hancock, who was installed in a service in the Cathedral on 7 June 2014. The present dean is John Clarke. Employed staff include the organist and master of choristers, head virger, archivist, librarian and

the staff of the shop, café and restaurant. The chapter is advised by specialists such as architects, archaeologists and financial experts.

More than a thousand services are held every year . There are daily services of Matins , Holy Communion and Choral Evensong , as well as major celebrations of Christian festivals such as Christmas , Easter , Pentecost and saints ' days . The cathedral is also used for the baptisms , weddings and funerals of those with close connections to it . In July 2009 the cathedral undertook the funeral of Harry Patch , the last British Army veteran of World War I , who died at the age of 111

Three Sunday services are led by the resident choir (during the school terms) and choral services are sung on weekdays. The cathedral hosts visiting choirs and is involved in outreach work with local schools as part of its Chorister Outreach Project. It is also the venue for musical events such as an annual concert by the Somerset Chamber Choir.

Each year about 150 @,@ 000 people attend services and another 300 @,@ 000 visit as tourists. Entry is free, but visitors are encouraged to make a donation towards the annual running costs which were around £ 2 million (approx. US \$ 3 @.@ 3 million) in 2010.

= = Architecture = =

= = = Dates, styles and architects = = =

Construction of the cathedral began in about 1175, to the design of an unknown architect. Wells is the first cathedral in England to be, from its foundation, built in the Gothic style. According to art historian John Harvey, it is the first truly Gothic cathedral in the world, its architects having entirely dispensed with all the features that bound the contemporary east end of Canterbury Cathedral and the earlier buildings of France, such as the east end of the Abbey of Saint Denis, to the Romanesque. Unlike these churches, Wells has clustered piers rather than columns and has a gallery of identical pointed arches rather than the typically Romanesque form of paired openings. The style, with its simple untraceried lancet arches and convoluted mouldings, is known as Early English Gothic.

From about 1192 to 1230, Adam Lock, the earliest architect at Wells for whom a name is known, continued the transept and nave in the same manner as his predecessor. Lock was also the builder of the north porch, to his own design.

The Early English west front was commenced around 1230 by Thomas Norreys, with building and sculpture continuing for thirty years. Its south @-@ west tower was begun 100 years later and constructed between 1365 and 1395, and the north @-@ west tower between 1425 and 1435, both in the Perpendicular Gothic style to the design of William Wynford, who also filled many of the cathedral 's early English lancet windows with delicate tracery.

Between 1275 and 1310 the undercroft and chapter house were built by unknown architects, the undercroft in the Early English and the chapter house in the Geometric style of Decorated Gothic

architecture . In about 1310 work commenced on the Lady Chapel , to the design of Thomas Witney , who also built the central tower from 1315 to 1322 in the Decorated Gothic style . The tower was later braced internally with arches by William Joy . Concurrent with this work , in 1329 ? 45 Joy made alterations and extensions to the choir , joining it to the Lady Chapel with the retrochoir , the latter in the Flowing Decorated style .

Later changes include the Perpendicular vault of the tower and construction of Sugar 's Chapel , 1475 ? 90 by William Smyth . Also , Gothic Revival renovations were made to the choir and pulpitum by Benjamin Ferrey and Anthony Salvin , 1842 ? 57 .

$$= = = Plan = = =$$

Wells has a total length of 415 feet (126 m). In common with Canterbury , Lincoln and Salisbury cathedrals , it has the distinctly English arrangement of two transepts , with the body of the church divided into distinct parts : nave , choir , and retro @-@ choir , beyond which extends the Lady Chapel . The façade is wide , with its towers extending beyond the transepts on either side . There is a large projecting porch on the north side of the nave forming an entry into the cathedral . To the north @-@ east is the large octagonal chapter house , entered from the north choir aisle by a passage and staircase . To the south of the nave is a large cloister , unusual in that the northern range , that adjacent the cathedral , was never built .

= = = Elevation = = =

In section , the cathedral has the usual arrangement of a large church : a central nave with an aisle on each side , separated by two arcades . The elevation is in three stages , arcade , triforium gallery and clerestory . The nave is 67 feet (20 m) in height , very low compared to the Gothic cathedrals of France . It has a markedly horizontal emphasis , caused by the triforium having a unique form , a series of identical narrow openings , lacking the usual definition of the bays . The triforium is separated from the arcade by a single horizontal string course that runs unbroken the length of the nave . There are no vertical lines linking the three stages , as the shafts supporting the vault rise above the triforium .

= = = Exterior = = =

The exterior of Wells Cathedral presents a relatively tidy and harmonious appearance since the greater part of the building was executed in a single style , Early English Gothic . This is uncommon among English cathedrals where the exterior usually exhibits a plethora of styles . At Wells , later changes in the Perpendicular style were universally applied , such as filling the Early English lancet windows with simple tracery , the construction of a parapet that encircles the roof , and the addition of pinnacles framing each gable , similar to those around the chapter house and on the west front . At the eastern end there is a proliferation of tracery with repeated motifs in the Reticulated style , a stage between Geometric and Flowing Decorated tracery .

= = = = West front = = =

The west front is 100 feet (30 m) high and 147 feet (45 m) wide , and built of Inferior Oolite of the Middle Jurassic period , which came from the Doulting Stone Quarry , about 8 miles (13 km) to the east . According to the architectural historian Alec Clifton @-@ Taylor , it is " one of the great sights of England " .

West fronts in general take three distinct forms: those that follow the elevation of the nave and aisles, those that have paired towers at the end of each aisle, framing the nave, and those that screen the form of the building. The west front at Wells has the paired @-@ tower form, unusual in that the towers do not indicate the location of the aisles, but extend well beyond them, screening the dimensions and profile of the building.

The west front rises in three distinct stages, each clearly defined by a horizontal course. This horizontal emphasis is counteracted by six strongly projecting buttresses defining the cross @-@ sectional divisions of nave, aisles and towers, and are highly decorated, each having canopied niches containing the largest statues on the façade.

At the lowest level of the façade is a plain base, contrasting with and stabilising the ornate arcades that rise above it. The base is penetrated by three doors, which are in stark contrast to the often imposing portals of French Gothic cathedrals. The outer two are of domestic proportion and the central door is ornamented only by a central post, quatrefoil and the fine mouldings of the arch.

Above the basement rise two storeys, ornamented with quatrefoils and niches originally holding about four hundred statues, with three hundred surviving until the mid @-@ 20th century. Since then, some have been restored or replaced, including the ruined figure of Christ in the gable.

The third stages of the flanking towers were both built in the Perpendicular style of the late 14th century , to the design of William Wynford ; that on the north @-@ west was not begun until about 1425 . The design maintains the general proportions , and continues the strong projection of the buttresses .

The finished product has been criticised for its lack of pinnacles , and it is probable that the towers were intended to carry spires which were never built . Despite its lack of spires or pinnacles , the architectural historian Banister Fletcher describes it as " the highest development in English Gothic of this type of façade . "

= = = = = lconography of the west front = = = =

The sculptures on the west front at Wells include standing figures , seated figures , half @-@ length angels and narratives in high relief . Many of the figures are life @-@ sized or larger , and together they constitute the finest display of medieval carving in England . The figures and many of the architectural details were painted in bright colours , and the colouring scheme has been deduced from flakes of paint still adhering to some surfaces . The sculptures occupy nine architectural zones stretching horizontally across the entire west front and around the sides and the eastern returns of the towers which extend beyond the aisles . The strongly projecting buttresses have tiers of niches which contain many of the largest figures . Other large figures , including that of Christ , occupy the gable . A single figure stands in one of two later niches high on the northern tower .

In 1851 the archaeologist Charles Robert Cockerell published his analysis of the iconography , numbering the nine sculptural divisions from the lowest to the highest . He defined the theme as " a calendar for unlearned men " illustrating the doctrines and history of the Christian faith , its introduction to Britain and its protection by princes and bishops . He likens the arrangement and iconography to the Te Deum .

According to Cockerell , the side of the façade that is to the south of the central door is the more sacred and the scheme is divided accordingly . The lowest range of niches each contained a standing figure , of which all but four figures on the west front , two on each side , have been destroyed . More have survived on the northern and eastern sides of the north tower . Cockerell speculates that those to the south of the portal represented prophets and patriarchs of the Old Testament while those to the north represented early missionaries to Britain , of which Augustine of Canterbury , St Birinus , and Benedict Biscop are identifiable by their attributes . In the second zone , above each pair of standing figures , is a quatrefoil containing a half @-@ length angel in relief , some of which have survived . Between the gables of the niches are quatrefoils that contain a series of narratives from the Bible , with the Old Testament stories to the south , above the prophets and patriarchs , and those from the New Testament to the north . A horizontal course runs around the west front dividing the architectural storeys at this point .

Above the course, zones four and five, as identified by Cockerell, contain figures which represent the Christian Church in Britain, with the spiritual lords such as bishops, abbots, abbesses and saintly founders of monasteries on the south, while kings, queens and princes occupy the north. Many of the figures survive and many have been identified in the light of their various attributes. There is a hierarchy of size, with the more significant figures larger and enthroned in their niches

rather than standing. Immediately beneath the upper course are a series of small niches containing dynamic sculptures of the dead coming forth from their tombs on the Day of Judgement. Although naked, some of the dead are defined as royalty by their crowns and others as bishops by their mitres. Some emerge from their graves with joy and hope, and others with despair.

The niches in the lowest zone of the gable contain nine angels , of which Cockerell identifies Michael , Gabriel , Raphael and Uriel . In the next zone are the taller figures of the twelve apostles , some , such as John , Andrew and Bartholomew , clearly identifiable by the attributes that they carry . The uppermost niches of the gable contained the figure of Christ the Judge at the centre , with the Virgin Mary on his right and John the Baptist on his left . The figures all suffered from iconoclasm . A new statue of Jesus was carved for the central niche , but the two side niches now contain cherubim . Christ and the Virgin Mary are also represented by now headless figures in a Coronation of the Virgin in a niche above the central portal . A damaged figure of the Virgin and Christ Child occupies a quatrefoil in the spandrel of the door .

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= = = = Crossing tower = = =
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The central tower appears to date from the early 13th century . It was substantially reconstructed in the early 14th century during the remodelling of the east end , necessitating the internal bracing of the piers a decade or so later . In the 14th century the tower was given a timber and lead spire which burnt down in 1439 . The exterior was then reworked in the Perpendicular style and given the present parapet and pinnacles . Alec Clifton @-@ Taylor describes it as " outstanding even in Somerset , a county famed for the splendour of its church towers " .

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= = = North porch = = =
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The north porch is described by art historian Nikolaus Pevsner as " sumptuously decorated " , and intended to be the main entrance . Externally it is simple and rectangular with plain side walls . The entrance is a steeply arched portal framed by rich mouldings of eight shafts with stiff @-@ leaf capitals each encircled by an annular moulding at middle height . Those on the left are figurative , containing images representing the martyrdom of St Edmund the Martyr . The walls are lined with deep niches framed by narrow shafts with capitals and annulets like those of the portal .

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= = = = Cloisters = = =
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The cloisters were built in the late 13th century and largely rebuilt from 1430 to 1508 and have wide openings divided by mullions and transoms , and tracery in the Perpendicular Gothic style . The vault has lierne ribs that form octagons at the centre of each compartment , the joints of each rib having decorative bosses . The eastern range is of two storeys , of which the upper is the library built in the 15th century .

Because Wells Cathedral was secular rather than monastic, cloisters were not a practical necessity. They were omitted from several other secular cathedrals but were built here and at Chichester. Explanations for their construction at these two secular cathedrals range from the processional to the aesthetic. As at Chichester, there is no northern range to the cloisters. In monastic cloisters it was the north range, benefiting most from winter sunlight, that was often used as a scriptorium.

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= = = Restoration = = =
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In 1969, when a large chunk of stone fell from a statue near the main door, it became apparent that there was an urgent need for restoration of the west front. Detailed studies of the stonework and of conservation practices were undertaken under the cathedral architect, Alban D. R. Caroe and a restoration committee formed. The methods that were selected for conservation were those devised by Eve and Robert Baker. W. A. (Bert) Wheeler, clerk of works to the cathedral 1935? 1978, had previously experimented with washing and surface @-@ treatment of architectural

carvings on the building and his techniques were among those tried on the statues.

The conservation was carried out between 1974 and 1986, wherever possible using non @-@ invasive procedures such as washing with water and a solution of lime, filling gaps and damaged surfaces with soft mortar to prevent the ingress of water and stabilising statues that were fracturing because of the corrosion of metal dowels. The surfaces were finished by painting with a thin coat of mortar and silane to resist further erosion and attack by pollutants. The restoration of the façade revealed much paint adhering to the statues and their niches, indicating that it had once been brightly coloured.

The particular character of this Early English interior is dependent on the proportions of the simple lancet arches . It is also dependent on the refinement of the architectural details , in particular the mouldings .

The arcade , which takes the same form in the nave , choir and transepts , is distinguished by the richness of both mouldings and carvings . Each pier of the arcade has a surface enrichment of 24 slender shafts in eight groups of three , rising beyond the capitals to form the deeply undulating mouldings of the arches . The capitals themselves are remarkable for the vitality of the stylised foliage , in a style known as " stiff @-@ leaf " . The liveliness contrasts with the formality of the moulded shafts and the smooth unbroken areas of ashlar masonry in the spandrels . Each capital is different , and some contain small figures illustrating narratives .

The vault of the nave rises steeply in a simple quadripartite form , in harmony with the nave arcade . The eastern end of the choir was extended and the whole upper part elaborated in the second quarter of the 14th century by William Joy . The vault has a multiplicity of ribs in a net @-@ like form , which is very different from that of the nave , and is perhaps a recreation in stone of a local type of compartmented wooden roof of which examples remain from the 15th century , including those at St Cuthbert 's Church , Wells . The vaults of the aisles of the choir also have a unique pattern .

Until the early 14th century , the interior of the cathedral was in a unified style , but it was to undergo two significant changes , to the tower and to the eastern end . Between 1315 and 1322 the central tower was heightened and topped by a spire , which caused the piers that supported it to show signs of stress . In 1338 the mason William Joy employed an unorthodox solution by inserting low arches topped by inverted arches of similar dimensions , forming scissors @-@ like structures . These arches brace the piers of the crossing on three sides , while the easternmost side is braced by a choir screen . The bracing arches are known as " St Andrew 's Cross arches " , in a reference to the patron saint of the cathedral . They have been described by Wim Swaan ? rightly or wrongly ? as " brutally massive " and intrusive in an otherwise restrained interior .

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= = = = Lady Chapel and retrochoir = = = =
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Wells Cathedral has a square east end to the choir and presbytery as is usual, and like several other cathedrals including Salisbury and Exeter Cathedrals has a lower Lady Chapel projecting at the eastern end, begun by Thomas Witney in about 1310, possibly before the chapter house was completed. The date is a matter of dispute.

The Lady Chapel has a vault of complex and somewhat irregular pattern , as the chapel is not symmetrical about both axes . The main ribs are intersected by additional non @-@ supporting ribs known as " lierne ribs " and which in this case form a star @-@ shaped pattern at the apex of the vault . It is one of the earliest lierne vaults in England . There are five large windows , which are filled with fragments of medieval glass . In the east window the figures are all of the nineteenth century . The tracery of the windows is in the style known as Reticulated , having a pattern of a single repeated shape , in this case a trefoil , giving a " reticulate " or net @-@ like appearance . The

openings are also described as fish scales.

The retrochoir extends across the east end of the choir and into the east transepts . At its centre the vault is supported by a remarkable structure of angled piers . Two of these are so placed as to complete the octagonal shape of the Lady Chapel , a solution described by Francis Bond as " an intuition of Genius " . The piers have attached shafts of marble , and , with the vaults that they support , create a vista of great complexity from every angle . The windows of the retrochoir are in the Reticulated style like those of the Lady Chapel , but are fully Flowing Decorated in that the tracery mouldings form ogival curves . The plan of this area between the presbytery and the Lady Chapel is unique , and it has been suggested that the failure to procure the canonization of Bishop William of March led to a shortening of the presbytery as space was no longer needed for his shrine . There was then a consequent need to fill in the resulting extra space behind the High Altar . It was done ingeniously and beautifully . A similar situation had arisen at St Albans Abbey , where the old apse had been removed leaving space between the Lady Chapel and the shrine of St Alban . The space there , however , was not treated as imaginatively as it was at Wells .

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= = = = Chapter house = = =
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The chapter house was begun in the late 13th century and built in two stages , completed about 1310 . It is a two @-@ storeyed structure with the main chamber raised on an undercroft . It is entered from a staircase which divides and turns , one branch leading through the upper storey of Chain Gate to Vicars ' Close . The Decorated interior is described by Alec Clifton @-@ Taylor as " architecturally the most beautiful in England " . It is octagonal , with its ribbed vault supported on a central column . The column is surrounded by shafts of Purbeck Marble , rising to a single continuous rippling foliate capital of stylised oak leaves and acorns , quite different in character from the Early English stiff @-@ leaf foliage . Above the moulding spring thirty @-@ two ribs of strong profile , giving an effect generally likened to " a great palm tree " . The windows are large with Geometric Decorated tracery that is beginning to show an elongation of form , and ogees in the lesser lights that are characteristic of Flowing Decorated tracery . The tracery lights still contain ancient glass . Beneath the windows are 51 stalls , the canopies of which are enlivened by carvings including many heads carved in a light @-@ hearted manner .

= = Artworks and treasures = =

= = = Stained glass = = =

Wells Cathedral contains one of the most substantial collections of medieval stained glass in England , despite damage by Parliamentary troops in 1642 and 1643 . The oldest surviving glass dates from the late 13th century and is in two windows on the west side of the chapter @-@ house staircase . Two windows in the south choir aisle are from 1310 ? 20 .

The Lady Chapel has five windows, of which four date from 1325 ? 30 and include images of a local saint, Dunstan. The east window was restored to a semblance of its original appearance by Thomas Willement in 1845. The other windows have complete canopies, but the pictorial sections are fragmented.

The east window of the choir is a broad, seven @-@ light window dating from 1340 ? 45. It depicts the Tree of Jesse (the genealogy of Christ) and demonstrates the use of silver staining, a new technique that allowed the artist to paint details on the glass in yellow, as well as black. The combination of yellow and green glass and the application of the bright yellow stain gives the window its popular name, the "Golden Window". It is flanked by two windows each side in the clerestory, with large figures of saints, also dated to 1340 ? 45. In 2010 a major conservation programme was undertaken on the Jesse Tree window.

The panels in the chapel of St Katherine are attributed to Arnold of Nijmegen and date from about 1520. They were acquired from the destroyed church of Saint @-@ Jean, Rouen, with the last

panel having been purchased in 1953.

The large triple lancet to the nave west end was glazed at the expense of Dean Creighton at a cost of \pounds 140 in 1664. It was repaired in 1813, and the central light was largely replaced to a design by Archibald Keightley Nicholson between 1925 and 1931. The main north and south transept end windows by James Powell and Sons were erected in the early 20th century.

= = = Carvings = = =

The greater part of the stone carving of Wells Cathedral comprises foliate capitals in the stiff @-@ leaf style . They are found ornamenting the piers of the nave , choir and transepts . Stiff @-@ leaf foliage is highly abstract . Though possibly influenced by carvings of acanthus leaves or vine leaves , it cannot be easily identified with any particular plant . Here the carving of the foliage is varied and vigorous , the springing leaves and deep undercuts casting shadows that contrast with the surface of the piers . In the transepts and towards the crossing in the nave the capitals have many small figurative carvings among the leaves . These include a man with toothache and a series of four scenes depicting the " Wages of Sin " in a narrative of fruit stealers who creep into an orchard and are subsequently beaten by the farmer . Another well @-@ known carving is in the north transept aisle : a foliate corbel , on which climbs a lizard , sometimes identified as a salamander , a symbol of eternal life .

Carvings in the Decorated Gothic style may be found in the eastern end of the buildings , where there are many carved bosses . In the chapter house , the carvings of the fifty @-@ one stalls include numerous small heads of great variety , many of them smiling or laughing . A well @-@ known figure is the corbel of the dragon @-@ slaying monk in the chapter house stair . The large continuous capital that encircles the central pillar of the chapter house is markedly different in style to the stiff @-@ leaf of the Early English period . In contrast to the bold projections and undercutting of the earlier work , it has a rippling form and is clearly identifiable as grapevine .

The 15th @-@ century cloisters have many small bosses ornamenting the vault . Two of these carvings in the west cloister , near the location of the gift shop and café , have been described as sheela na gigs , i. e. female figures displaying their genitals and variously considered to be associated with depictions of the sin of lust or with ancient fertility cults .

= = = = Misericords = = =

Wells Cathedral has one of the finest sets of misericords in Britain . Its clergy has a long tradition of singing or reciting from the Book of Psalms each day , along with the customary daily reading of the Holy Office . In medieval times the clergy assembled in the church eight times daily for the canonical hours . As the greater part of the services was recited while standing , many monastic or collegiate churches were fitted with stalls in which the seats tipped up to provide a convenient ledge for the monk or cleric to lean against . They were called " misericords " because their installation was an act of mercy . Misericords typically have a carved figurative bracket beneath the ledge framed by two floral motifs known , in the heraldic manner , as " supporters " .

The misericords date from 1330 to 1340 . They may have been carved under the direction of master carpenter John Strode , although his name is not recorded before 1341 . He was assisted by Bartholomew Quarter , who is documented from 1343 . They originally numbered ninety , of which sixty @-@ five have survived . Sixty @-@ one are installed in the choir , three are displayed in the cathedral and one is held by the Victoria and Albert Museum . New stalls were ordered when the eastern end of the choir was extended in the early 14th century . The canons complained that they had borne the cost of the rebuilding and ordered that the prebendary clerics should pay for their own stalls . When the newly refurbished choir opened in 1339 many misericords were left unfinished , including one @-@ fifth of the surviving 65 . Many of the clerics had not paid , and were required to contribute a total sum of £ 200 . The misericords survived better than the other sections of the stalls , which , during the Protestant Reformation , had their canopies chopped off and galleries inserted above them . One of the misericords , depicting a boy pulling a thorn from his foot , dates from the

17th century . In 1848 there was a complete rearrangement of the choir furniture , and 61 of the misericords were reused in the restructured stalls .

The subject matter of the carvings of the central brackets as misericords is very varied , but with many common themes recurring in different churches . Typically , the themes are less unified and less directly related to the Bible and Christian theology than are the themes of small sculptures seen elsewhere within churches , such as those on bosses . This is much the case at Wells , where none of the misericord carvings is directly based on a Bible story . The subjects , chosen either by the woodcarver , or perhaps by the individual paying for the stall , have no over @-@ riding theme . The sole unifying element is the roundels on each side of the pictorial subject , which are all elaborately carved foliage , in most cases formal and stylised in the later Decorated manner , but with several examples of naturalistic foliage , including roses and bindweed . Many of the subjects carry traditional interpretations . The image of the " Pelican in her Piety " (believed to feed her young on her own blood) is a recognised symbol for Christ 's love for the Church . A cat playing with a mouse may represent the Devil snaring a human soul . Other subjects illustrate popular fables or sayings such as " When the fox preaches , look to your geese " . Many of the subjects are depictions of animals , some of which may symbolise a human vice or virtue , or an aspect of faith .

Twenty @-@ seven of the carvings depict animals: rabbits, dogs, a puppy biting a cat, a ewe feeding a lamb, monkeys, lions, bats, and the Early Christian motif of two doves drinking from a ewer. Eighteen of the misericords have mythological subjects, including mermaids, dragons and wyverns. Five of the carvings are clearly narrative, such as the Fox and the Geese, and the story of Alexander the Great being raised to Heaven by griffins. There are three heads: a bishop in a mitre, an angel and a woman wearing a veil over her hair arranged in coils over each ear. Eleven carvings are of human figures, among which are several of remarkable design, having been conceived by the artist specifically for their purpose of supporting a shelf. One figure lies beneath the seat, supporting the shelf with his cheek, one hand and one foot. Another sits in a contorted manner supporting the weight on his elbow, while another figure squats with his knees wide apart and a strained look on his face.

= = = Fittings and monuments = = =

Some of the cathedral 's fittings and monuments are hundreds of years old . The brass lectern in the Lady Chapel dates from 1661 and has a moulded stand and foliate crest . In the north transept chapel is a 17th @-@ century oak screen with columns , formerly used in cow stalls , with artisan lonic capitals and cornice , set forward over the chest tomb of John Godelee . There is a bound oak chest from the 14th century , which was used to store the chapter seal and key documents . The bishop 's throne dates from 1340 , and has a panelled , canted front and stone doorway , and a deep nodding cusped ogee canopy above it , with three @-@ stepped statue niches and pinnacles . The throne was restored by Anthony Salvin around 1850 . Opposite the throne is a 19th @-@ century octagonal pulpit on a coved base with panelled sides , and steps up from the north aisle . The round font in the south transept is from the former Saxon cathedral and has an arcade of round @-@ headed arches , on a round plinth . The font cover was made in 1635 and is decorated with the heads of putti . The Chapel of St Martin is a memorial to every Somerset man who fell in World War I.

The monuments and tombs include: Bishop Gisa, died 1088; Bishop Bytton, died 1274; Bishop William of March, died 1302; John Droxford, died 1329; John Godelee, died 1333; John Middleton, died c. 1350; Ralph of Shrewsbury, died 1363; Bishop Harewell, died 1386; William Bykonyll, died c. 1448; John Bernard, died 1459; Bishop Bekynton, died 1464; John Gunthorpe, died 1498; John Still, died 1607; Robert Creighton, died 1672; Bishop Kidder, died 1703; Bishop Hooper, died 1727 and Bishop Harvey, died 1894.

= = = Clock = = =

In the north transept is Wells Cathedral clock, an astronomical clock from about 1325, believed to

be the work of Peter Lightfoot , a monk of Glastonbury . Its mechanism , dated to between 1386 and 1392 , was replaced in the 19th century , and the original mechanism moved to the Science Museum in London , where it continues to operate . It is the second @-@ oldest surviving clock in England , after the Salisbury cathedral clock .

The clock has its original medieval face . As well as showing the time on a 24 @-@ hour dial , it reflects the motion of the Sun and Moon , the phases of the Moon , and the time since the last new Moon . The astronomical dial represents a geocentric or pre @-@ Copernican view of the universe , with the Sun and Moon revolving round a central fixed Earth , like that of the clock at Ottery St Mary . The quarters are chimed by a quarter jack in the form of a small automaton known as Jack Blandifers , who hits two bells with hammers and two with his heels . At the striking of the clock , jousting knights appear above the clock face .

On the outer wall of the transept , opposite Vicars ' Hall , is a second clock face of the same clock , placed there just over seventy years after the interior clock and driven by the same mechanism . The second clock face has two quarter jacks (which strike on the quarter @-@ hour) in the form of knights in armour .

In 2010 the official clock @-@ winder retired and was replaced by an electric mechanism.

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= = Music = =
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= = = Organ and organists = = =
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The first record of an organ at this church dates from 1310 . A smaller organ , probably for the Lady Chapel , was installed in 1415 . In 1620 an organ , built by Thomas Dallam , was installed at a cost of £ 398 1s 5d . (equivalent to about £ 73 @,@ 000 as of 2014) .

The organ that was installed in 1620 was destroyed by parliamentary soldiers in 1643. An organ built in 1662 was enlarged in 1786 and again in 1855. In 1909? 10 an organ was built by Harrison & Harrison of Durham, with the best parts of the old organ retained. It has been serviced by the same company ever since.

The cathedral also has a chamber organ, built by the Scottish organ @-@ builders Lammermuir, which is normally kept in the choir but which can be moved around, for services and concerts, in other parts of the Cathedral. It is regularly used for authentic accompaniment of Tudor and baroque music.

The first recorded organist of Wells Cathedral was Walter Bagele (or Vageler) in 1416 , and the post of organist or assistant organist has been held by more than 60 individuals since then . Peter Lyons was Master of the Choristers at Wells Cathedral and Director of Music at Wells Cathedral School from 1954 to 1960 . Choral conductor James William Webb @-@ Jones , the father of Lyons 's wife , Bridget , whom Lyons married in the Cathedral , was Headmaster of Wells Cathedral School from 1955 to 1960 . Between 1996 and 2004 the appointed Organist and Master of the Choristers was Malcolm Archer . Since 2005 the organist has been Matthew Owens . Jonathan Vaughn was appointed assistant organist in 2007 , and the current organ scholars are Bryan Anderson , Alex Henshaw and Blandine Jacquet .

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= = = Cathedral choir = = =
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There has been a choir of boy choristers at Wells since 909. Currently there are 18 boy choristers and 18 girl choristers, aged from eight to fourteen. The Vicars Choral was formed in the 12th century and the sung liturgy was provided by a traditional cathedral choir of men and boys until the formation of an additional choir of girls in 1994. The boys and girls sing alternately with the Vicars Choral and are educated at Wells Cathedral School.

The Vicars Choral currently number twelve men , of whom three are choral scholars . Since 1348 the College of Vicars had its own accommodation in a quadrangle converted in the early 15th century to form Vicar 's Close . The Vicars Choral generally perform with the choristers , except on

Wednesdays, when they sing alone, allowing them to present a different repertoire, in particular plainsong.

In December 2010 Wells Cathedral Choir was rated by Gramophone magazine as "the highest ranking choir with children in the world". It continues to provide music for the liturgy at Sunday and weekday services. The choir has made many recordings and toured frequently, including performances in Beijing and Hong Kong in 2012. Its repertoire ranges from the choral music of the Renaissance to recently commissioned works.

= = = Voluntary Choir = = =

The Wells Cathedral Voluntary Choir is a mixed adult choir of 30 members , formed in 1986 to sing at the midnight service on Christmas Eve , and invited to sing at several other special services . The choir now sings for about 50 services a year , when the Cathedral Choir is in recess or on tour , and spends one week a year singing as the " choir in residence " at another cathedral . Although primarily liturgical , the choir 's repertoire includes other forms of music , as well as performances at engagements such as weddings and funerals .

= = Bells = =

The bells at Wells Cathedral are the heaviest ring of ten bells in the world , the tenor bell (the 10th and largest) , known as Harewell , weighing 56 @.@ 25 long hundredweight (2 @,@ 858 kg) . They are hung for full @-@ circle ringing in the English style of change ringing . These bells are now hung in the south @-@ west tower , although some were originally hung in the central tower .

= = Library = =

The library is above the eastern cloister and was built between 1430 and 1508 . Its collection is in three parts: early documents, housed in the Muniment Room; the collection predating 1800, housed in the Chained Library; and the post @-@ 1800 collection, housed in the Reading Room . The chapter 's earlier collection was destroyed during the Reformation, so that the present library consists chiefly of early printed books, rather than medieval manuscripts. The earlier books, in the Chained Library, number 2 @,@ 800 volumes and give an indication of the variety of interests of the members of the cathedral chapter from the Reformation until 1800. The focus of the collection is predominantly theology but there are volumes on science, medicine, exploration, and languages. Books of particular interest include Pliny 's Natural History printed in 1472, an Atlas of the World by Abraham Ortelius, printed in 1606 and a set of the works of Aristotle that once belonged to Erasmus. The library is open to the public at appointed times during summer and presents a small exhibition of documents and books.

= = = Original records = = =

Three early registers of the dean and chapter of Wells? the Liber Albus I (White Book; R I), Liber Albus II (R III) and Liber Ruber (Red Book; R II , section i)? were edited by W. H. B. Bird for the Historical Manuscripts Commissioners and published in 1907 . The books comprise , with some repetition , a cartulary of possessions of the cathedral , with grants of land dating back as early as the 8th century , well before the development of hereditary surnames in England; they also comprise acts of the Dean and Chapter , and surveys of their estates , mostly in Somerset .

= = Precincts = =

The cathedral is situated adjacent to a large lawned area, Cathedral Green, which is approached by three ancient gateways, Brown 's Gatehouse, Penniless Porch and Chain Gate. On the green is the 12th @-@ century Old Deanery, largely rebuilt in the late 15th century by Dean Gunthorpe

and remodelled by Dean Bathurst in the late 17th century . No longer the dean 's residence , it is used as offices for the diocese .

To the south of the cathedral is the moated Bishop 's Palace , begun around 1210 by Bishop Jocelin of Wells but dating mostly from the 1230s . In the 15th century Bishop Beckington added the north wing , which is now the bishop 's residence . It was restored and extended by Benjamin Ferrey between 1846 and 1854 .

To the north of the cathedral and connected to it by the Chain Gate is Vicars ' Close , a street planned in the 14th century and claimed to be the oldest purely residential street in Europe , with all but one of its original buildings surviving intact . Buildings in the close include the Vicars Hall and gateway at the south end , and the Vicars Chapel and Library at the north end .

The Liberty of St Andrew was the historic liberty and parish that encompassed the cathedral and the surrounding lands closely associated with it.

= = In the arts and popular culture = =

The English painter J. M. W. Turner visited Wells in 1795, making sketches of the precinct and a water colour of the west front, now in the Tate gallery. Other artists whose paintings of the cathedral are in national collections are Albert Goodwin, John Syer and Ken Howard.

The cathedral was used as an inspiration for Ken Follett 's novel The Pillars of the Earth and , with a heavily modified central tower , featured as the completed fictional Kingsbridge Cathedral at the end of the 2010 television adaptation of that novel . The interior of the cathedral was used for the Doctor Who episode , ' The Lazarus Experiment ' , while the exterior shots were filmed at Southwark Cathedral .